

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 30AUG10M Sam:13

Analysis Date: 31-AUG-10 01:34:00

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	0.82	0.65-0.89	y	96.1	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.75	1.32-1.78	y	106	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	101	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	93.7	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.93	0.88-1.20	y	115	72.0 - 138
13C-OCDD	M+2/M+4	1.01	0.76-1.02	y	224	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	97.3	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	90.9	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.71	1.32-1.78	y	93.7	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	112	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	104	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	106	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	111	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	102	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.37-0.51	y	106	77.0 - 129
13C-OCDF	M+2/M+4	0.99	0.76-1.02	y	224	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.35	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: JDate: 8/31/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 31-AUG-10 01:34:00

CS3 or VER Data Filename: 30AUG10M

Sam:13

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	1.000	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	1.001	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	1.001	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	1.001	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	1.001	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		0.989	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	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: Date: 8/31/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:30AUG10M

Instrument: FAL3

GC: DB5

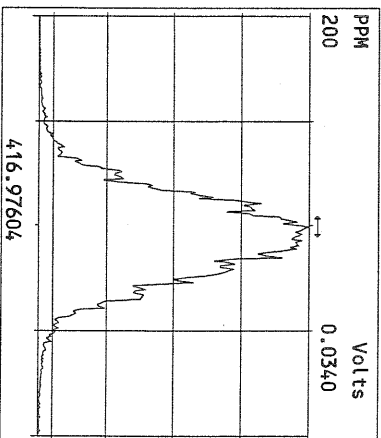
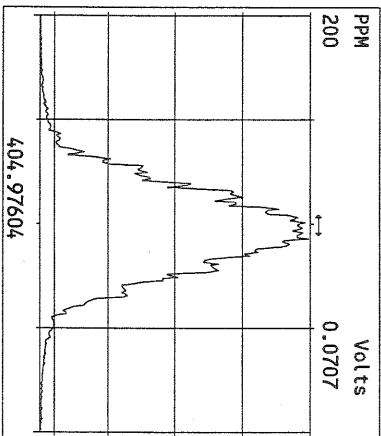
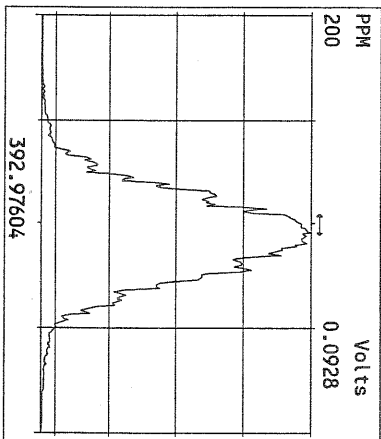
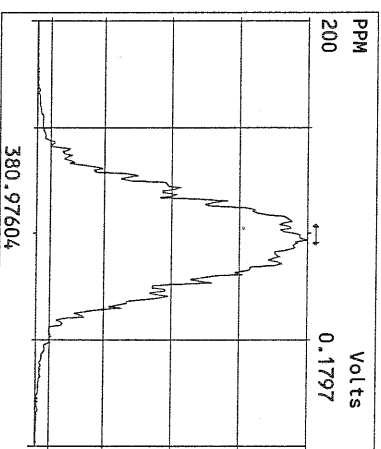
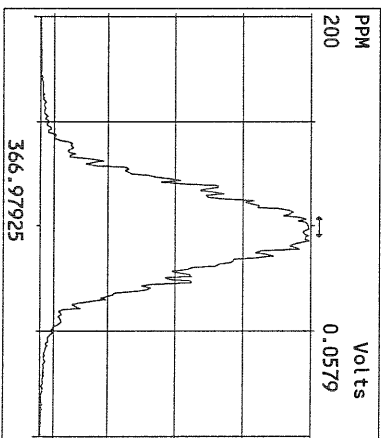
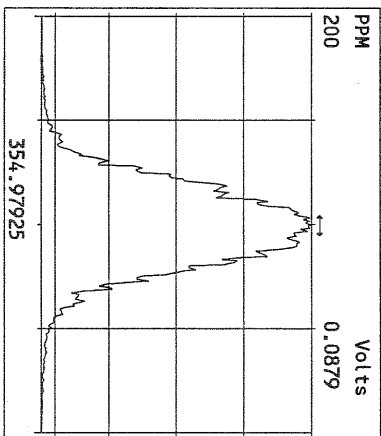
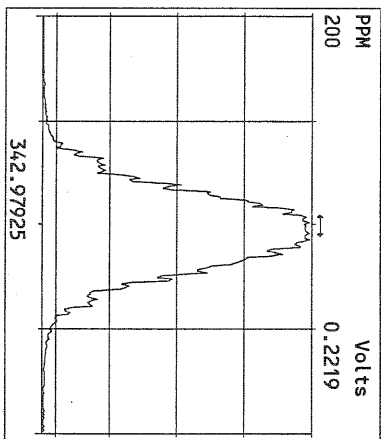
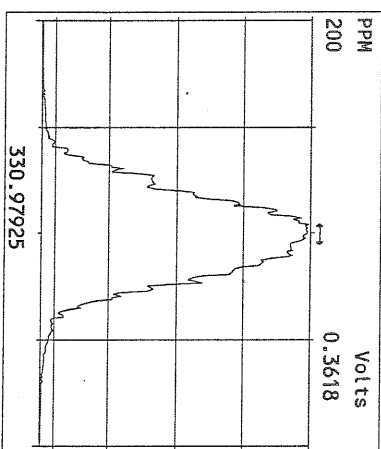
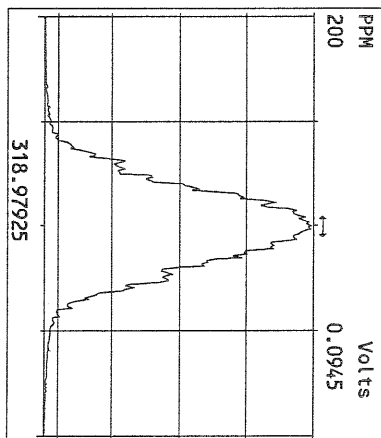
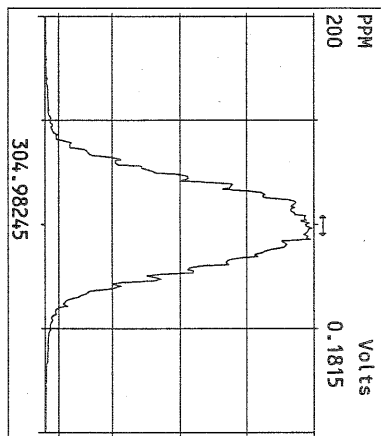
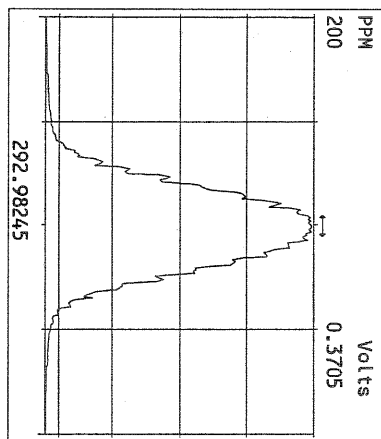
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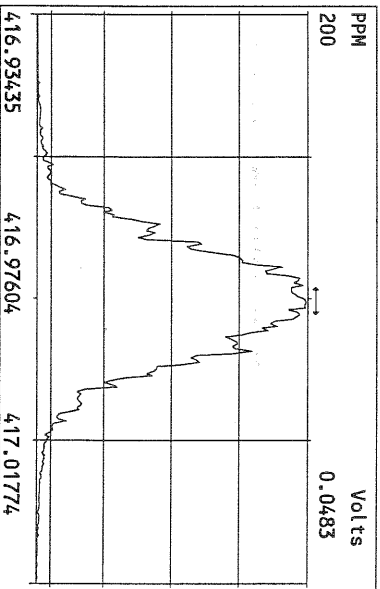
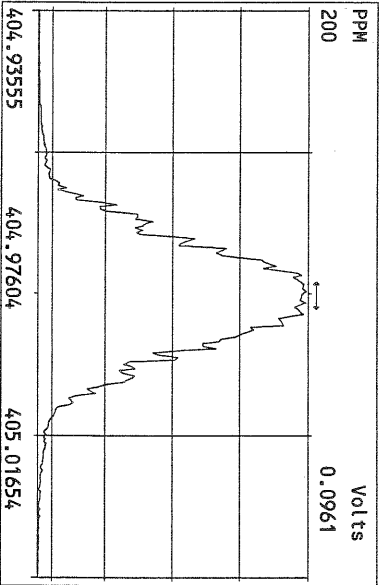
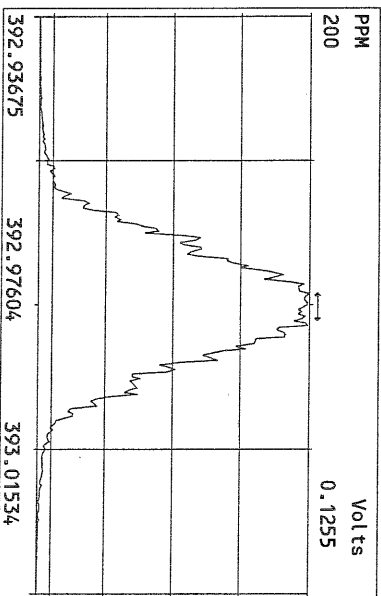
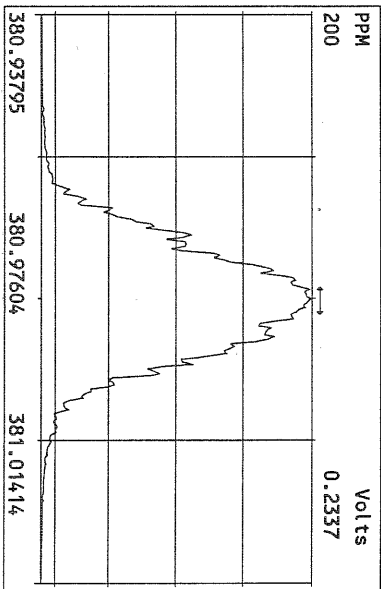
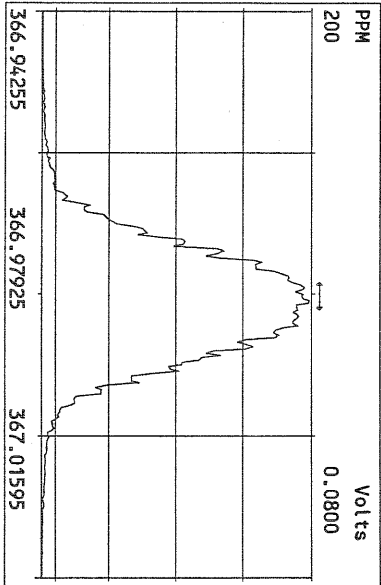
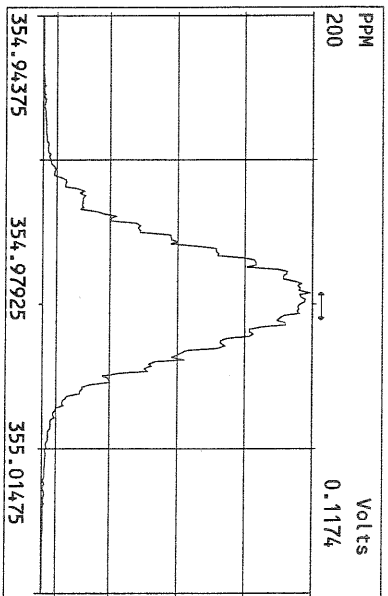
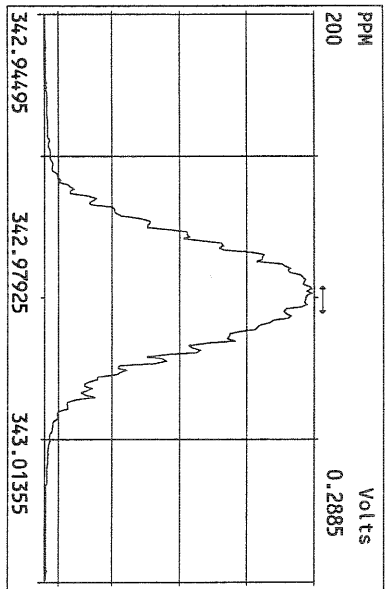
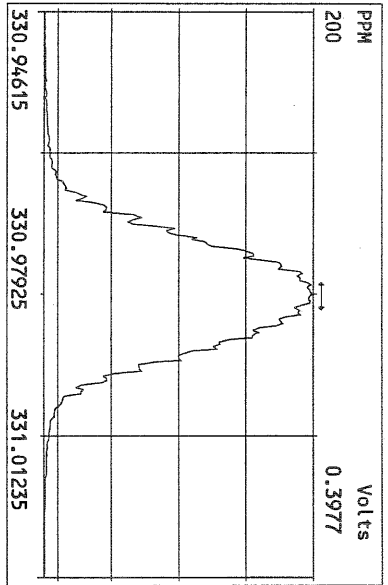
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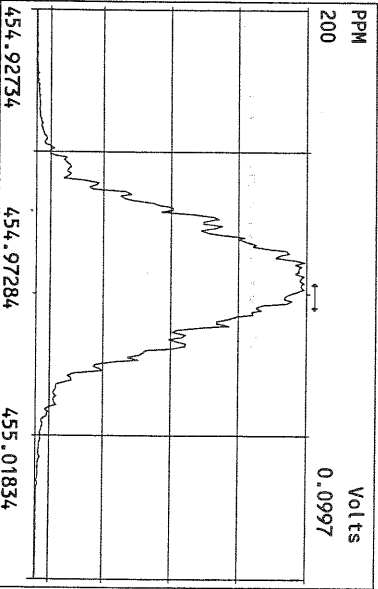
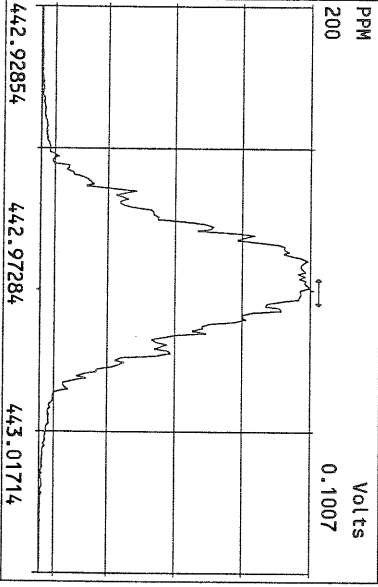
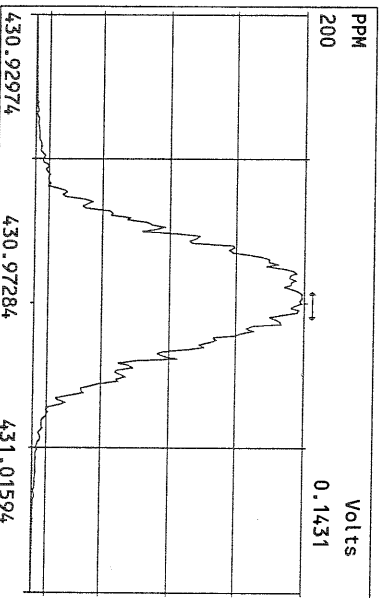
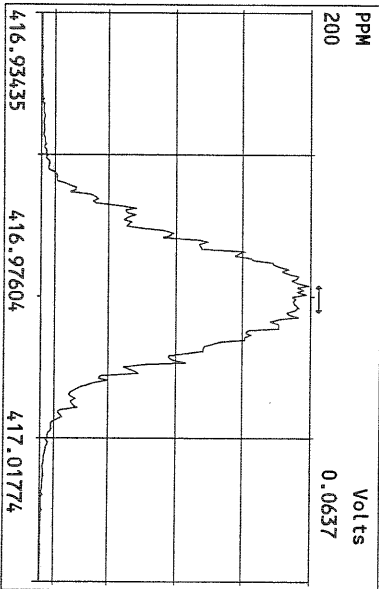
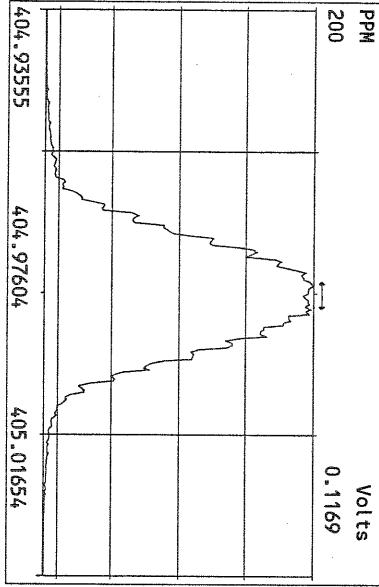
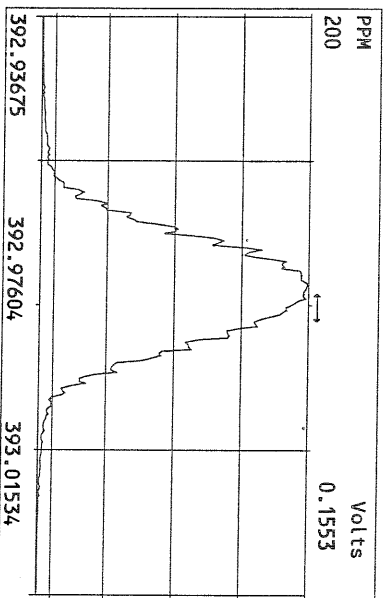
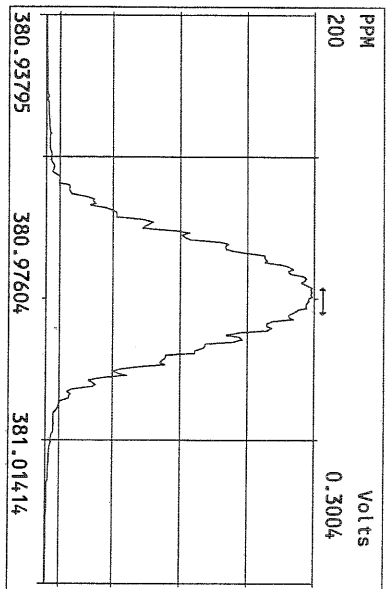
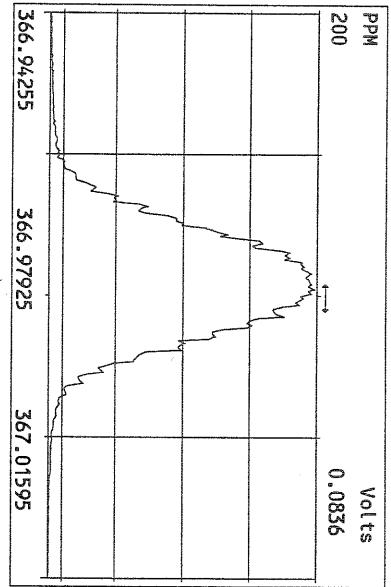
8/31/10

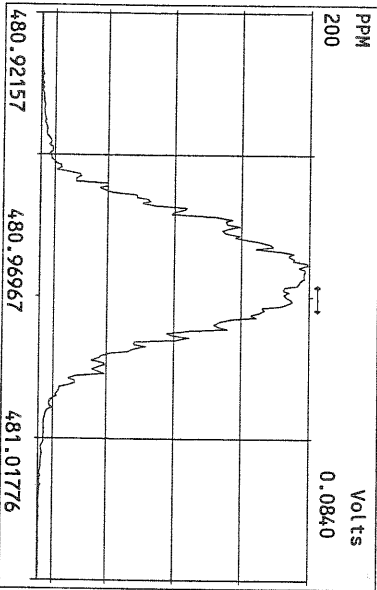
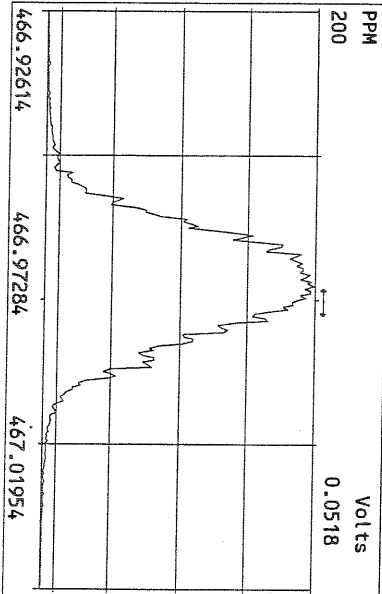
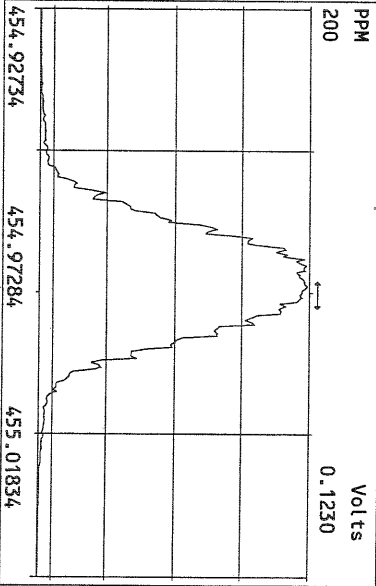
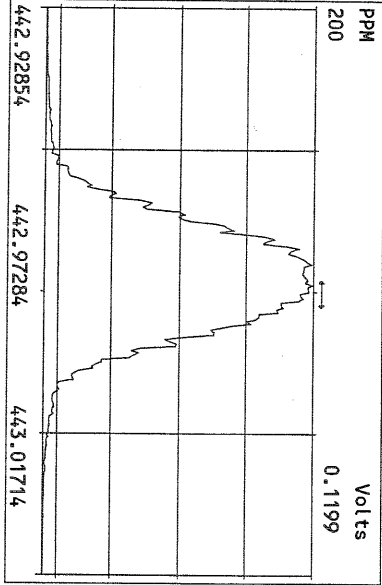
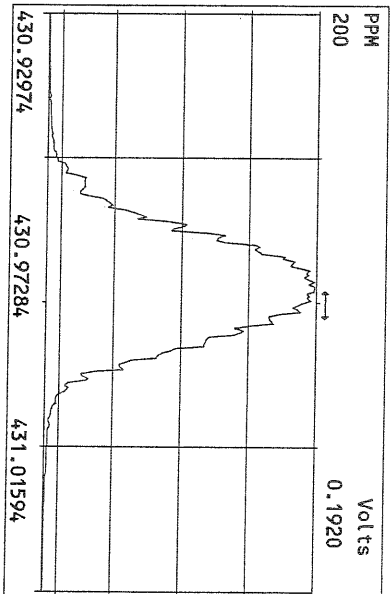
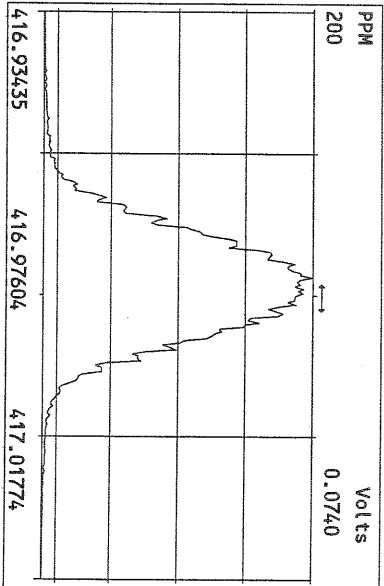
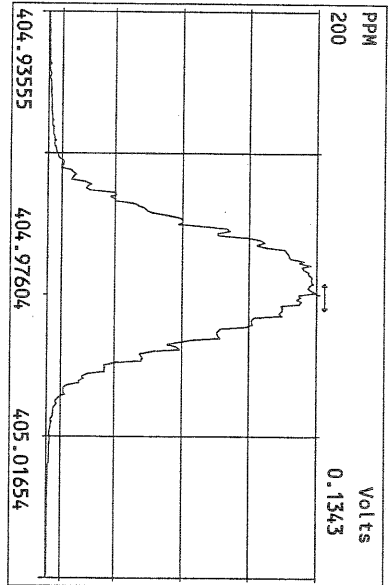
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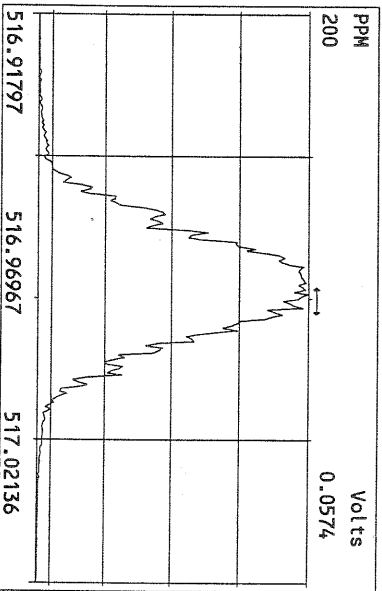
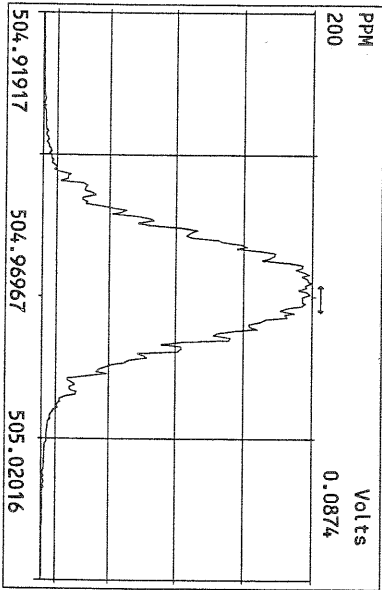
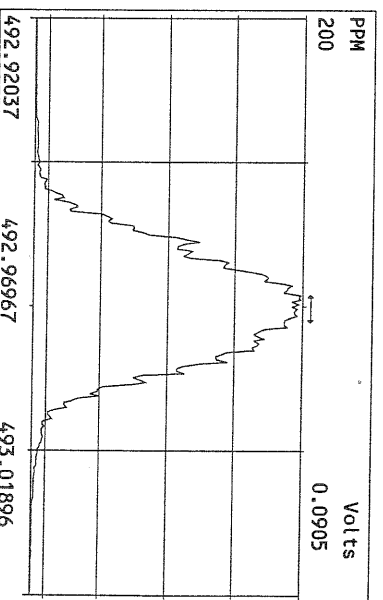
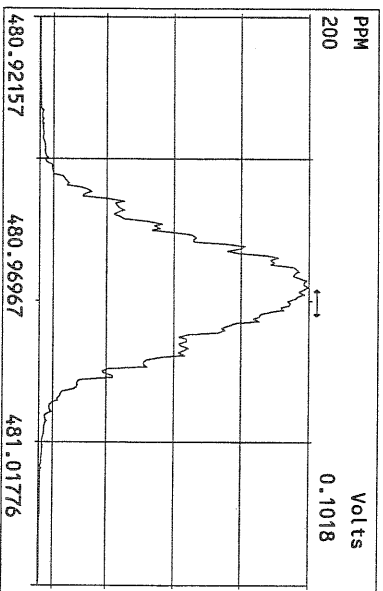
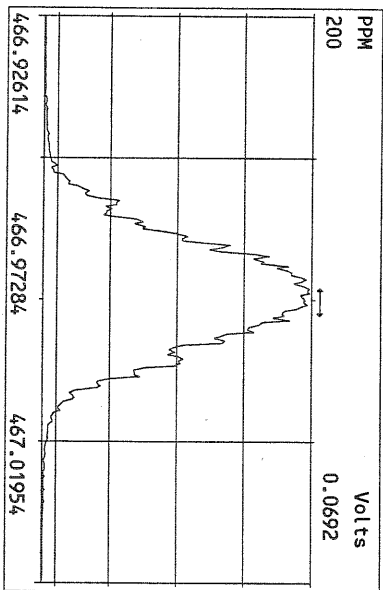
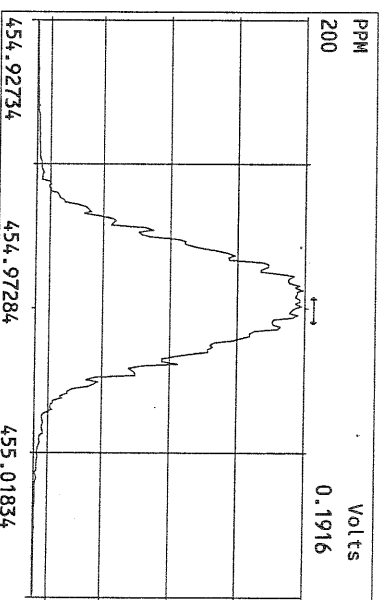
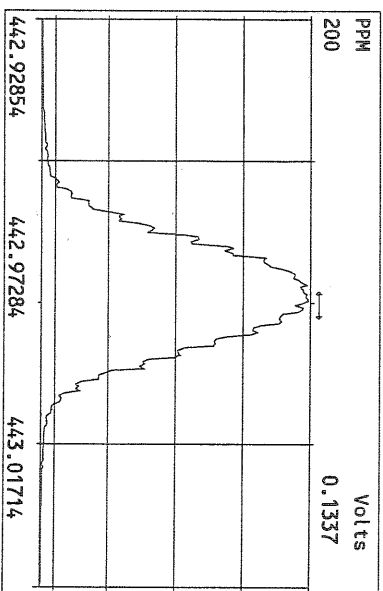
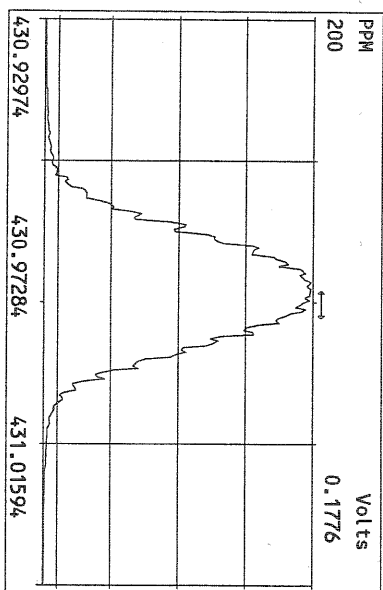
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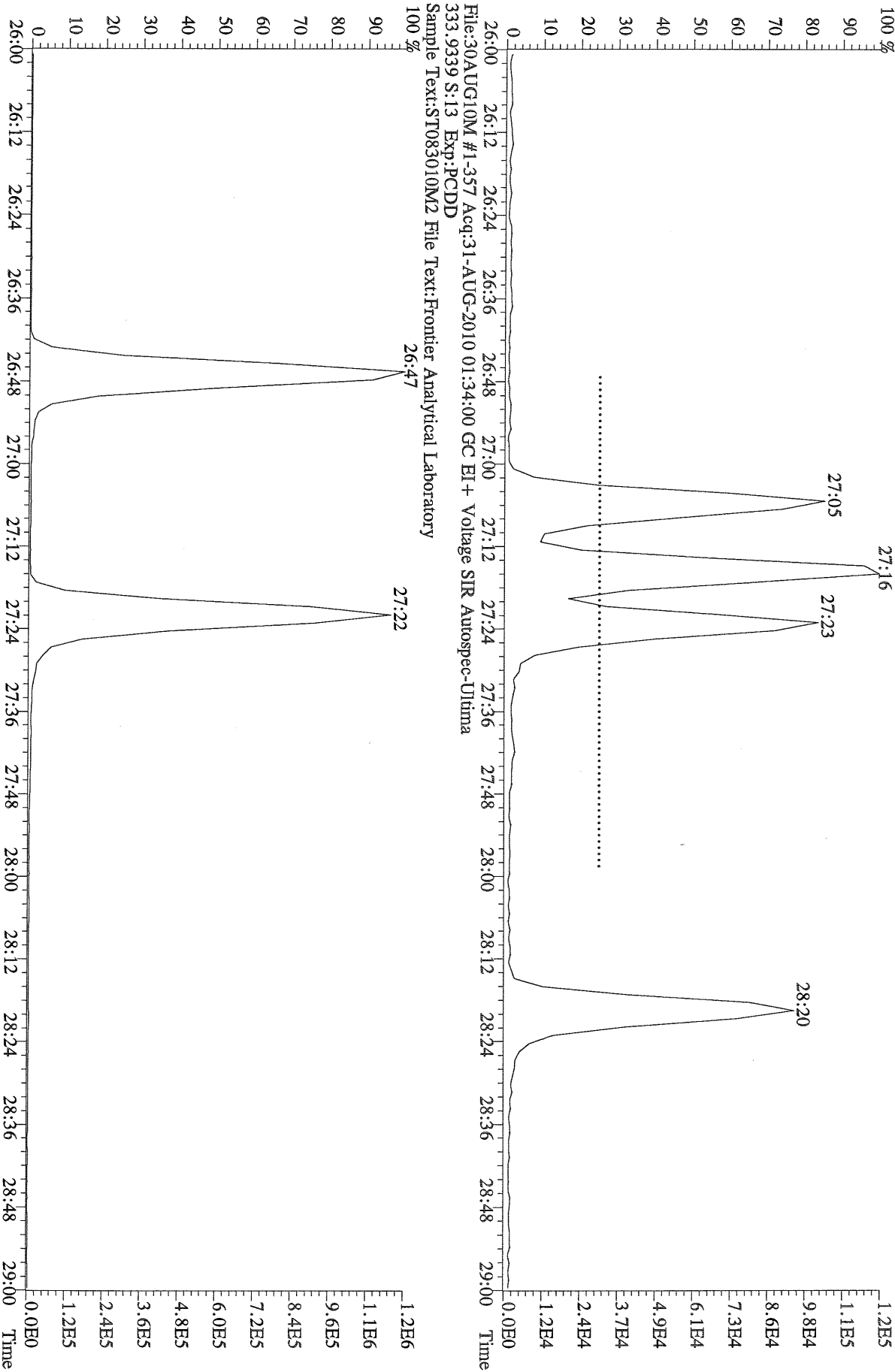




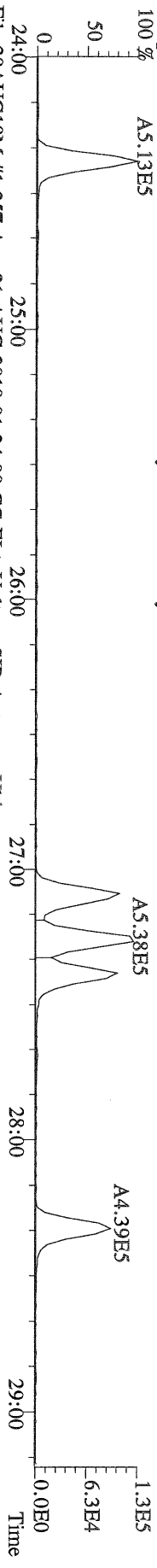




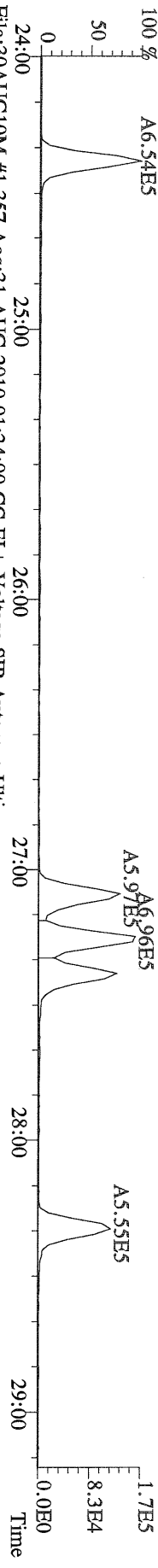
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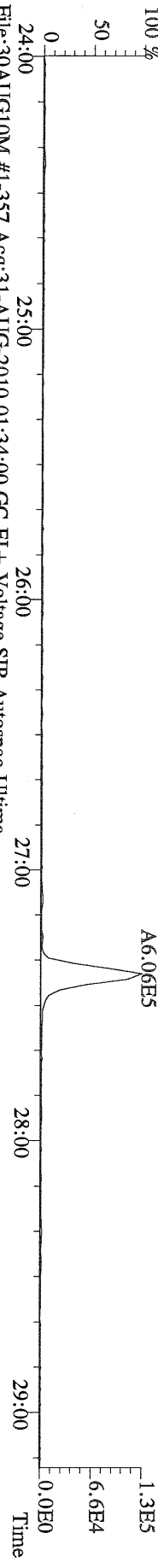
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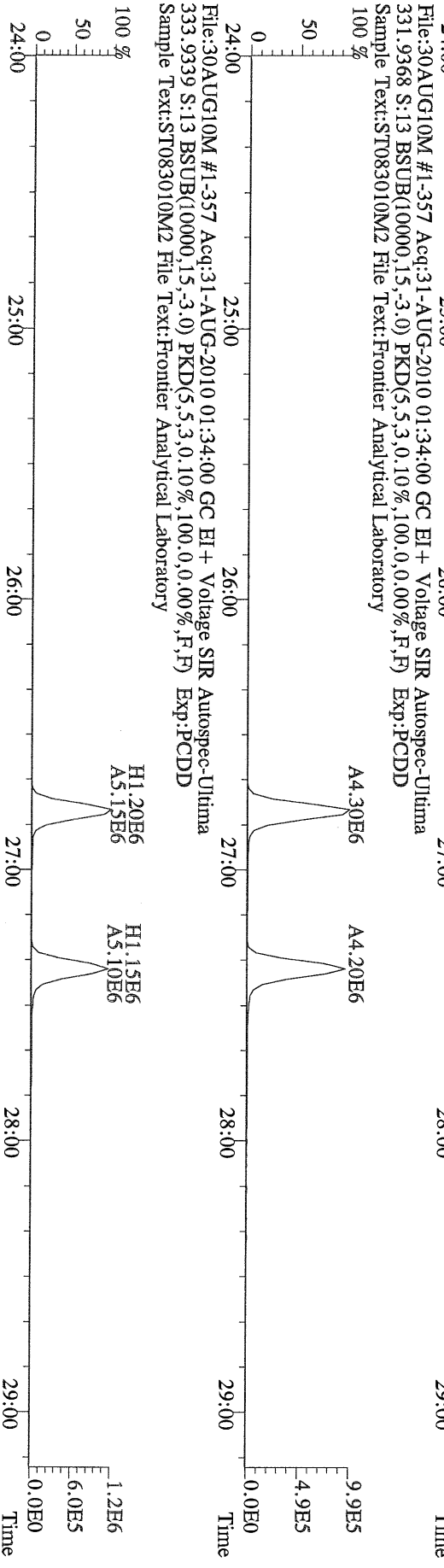
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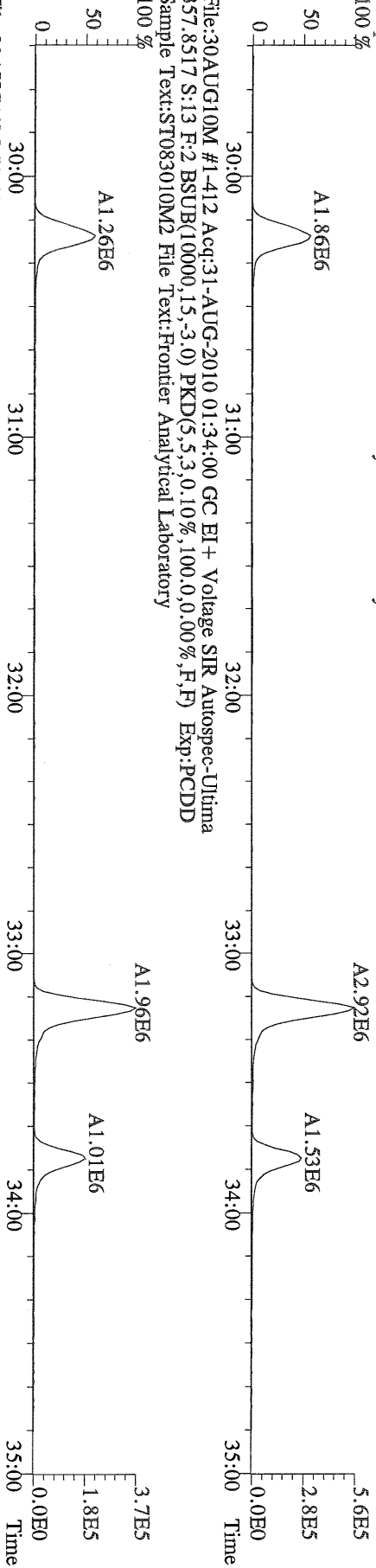
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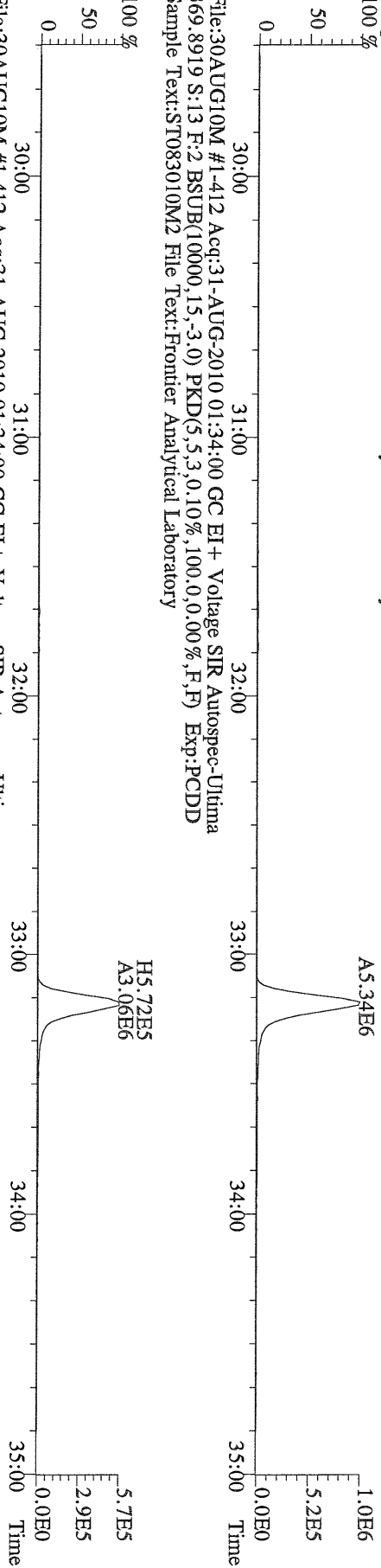
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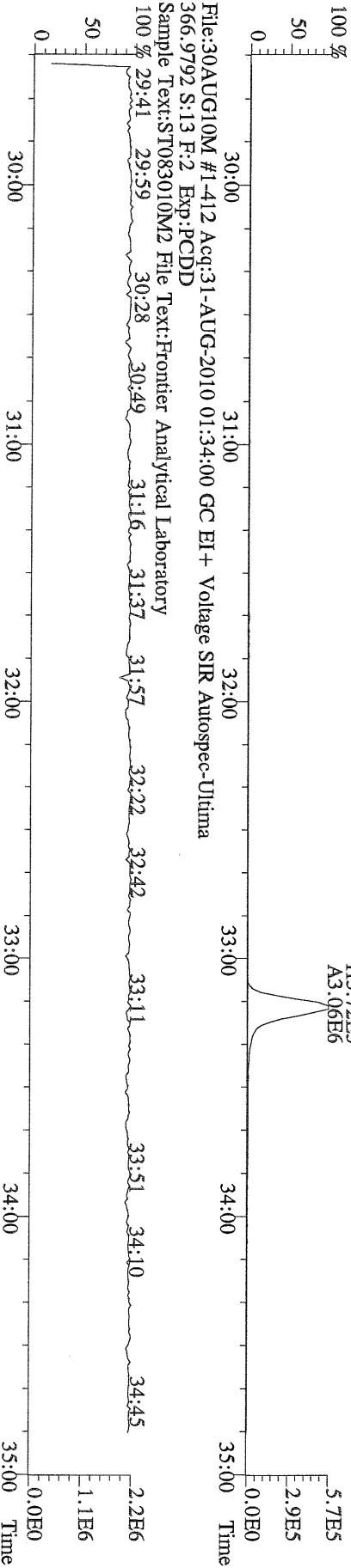
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory
100 %



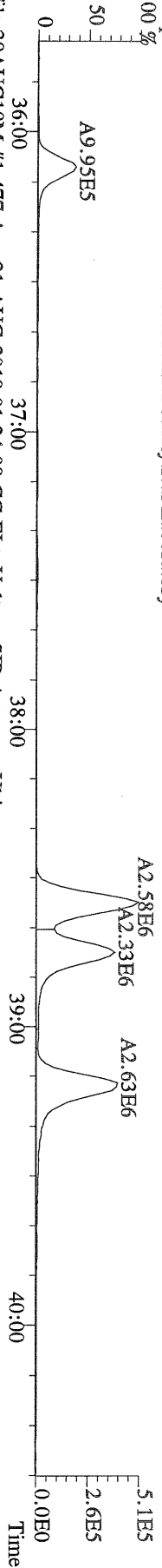
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory
100 %



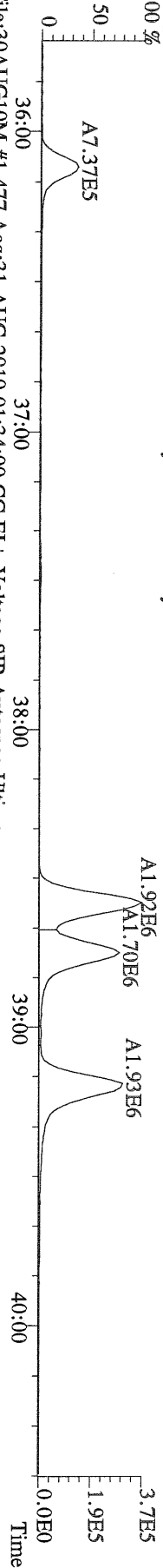
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



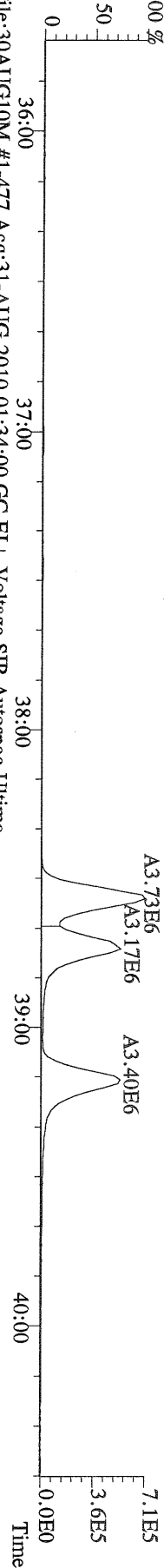
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389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



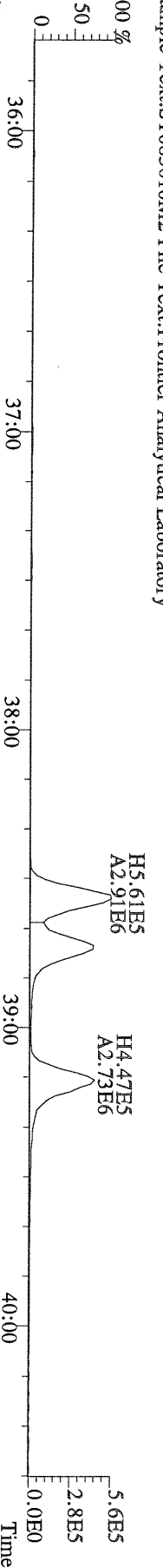
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



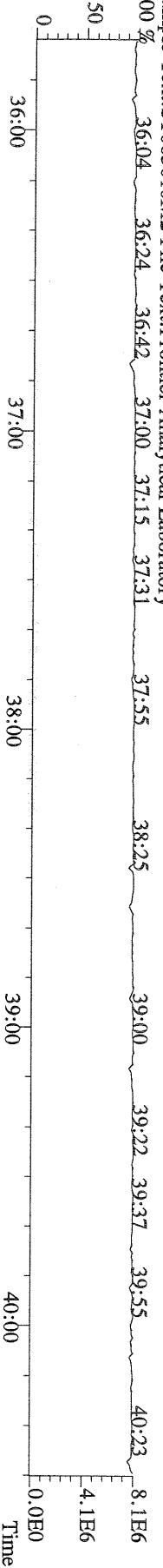
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401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



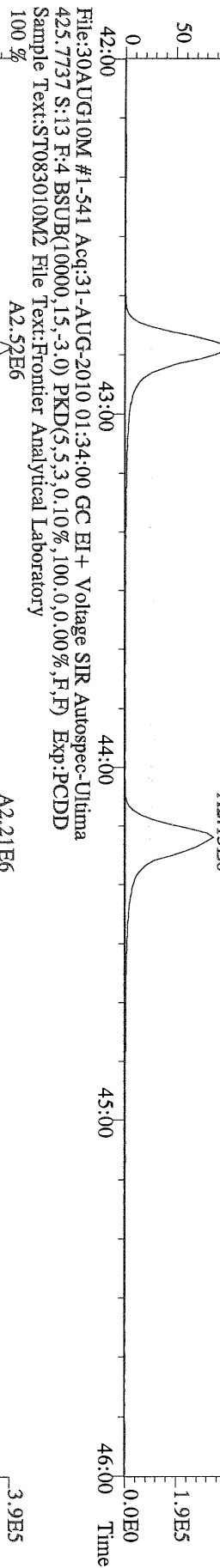
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403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



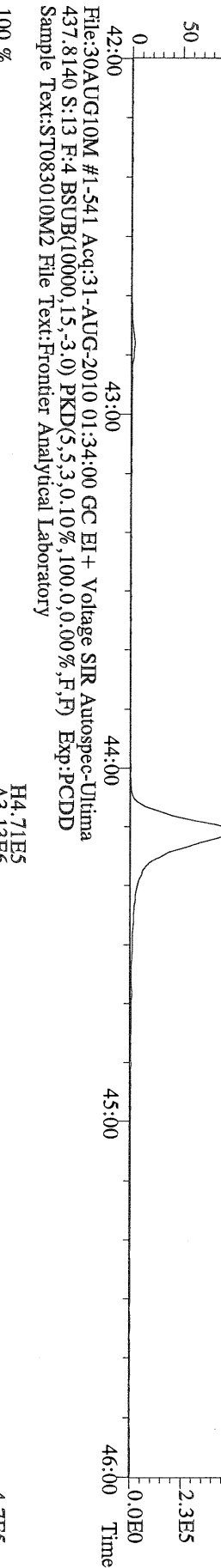
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380.9760 S:13 F:3 Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



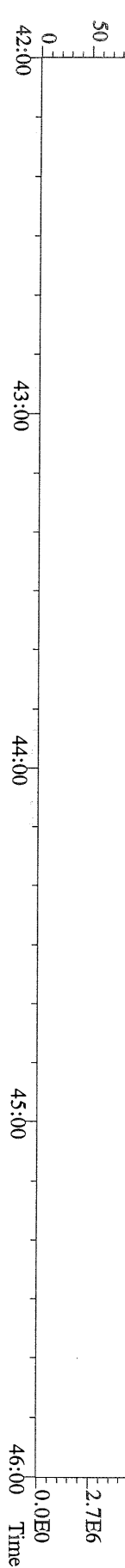
File:30AUG10M #1-541 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



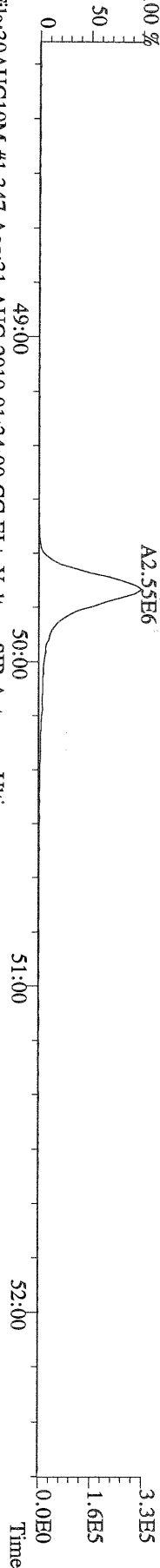
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435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



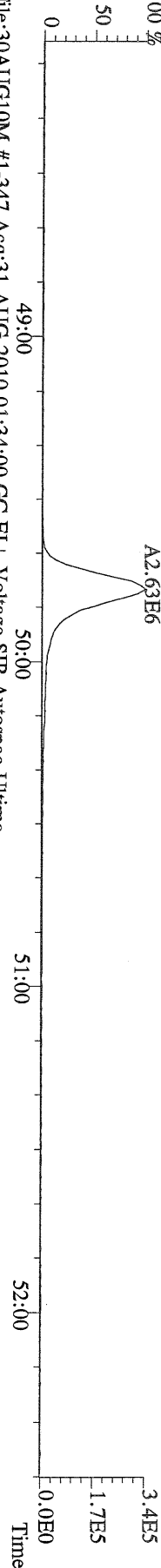
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430.9728 S:13 F:4 Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



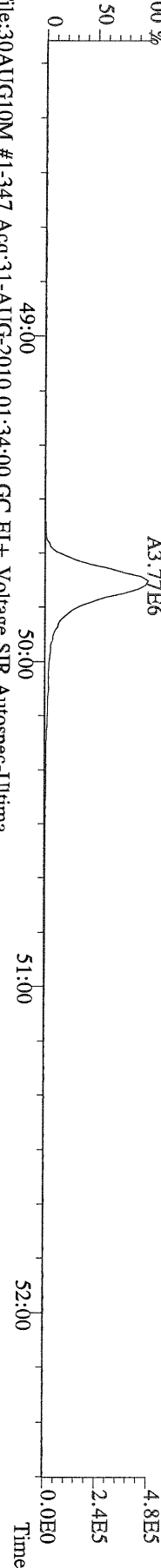
File:30AUG10M #1-347 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



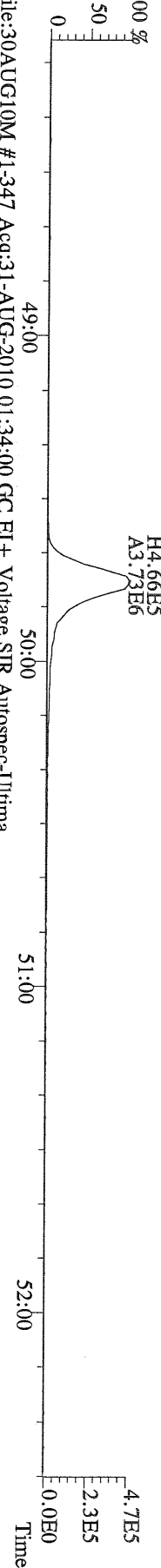
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459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



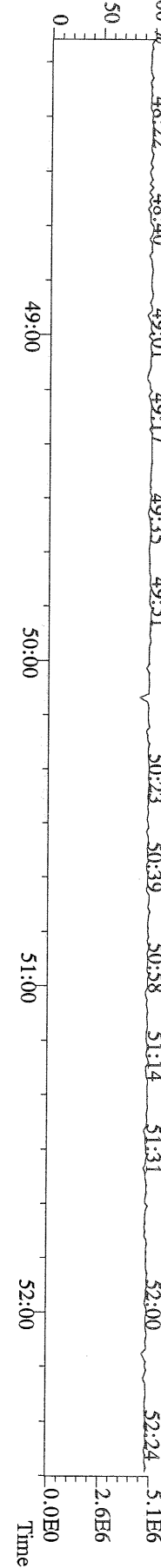
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469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



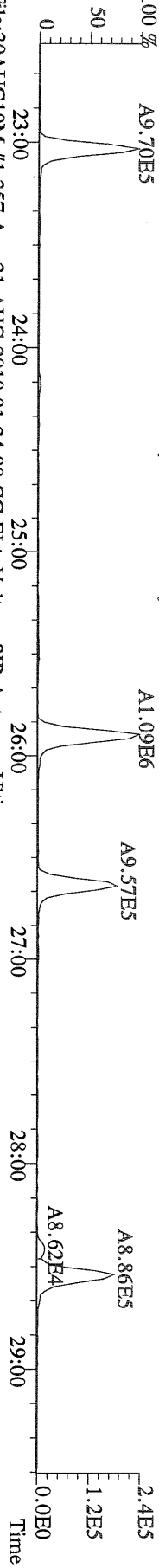
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471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



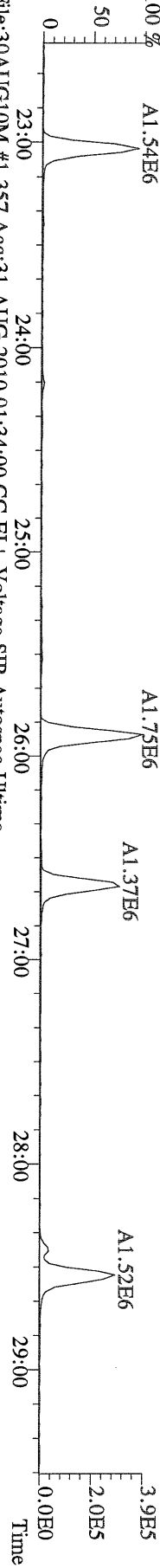
File:30AUG10M #1-347 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:13 F:5 Exp.:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



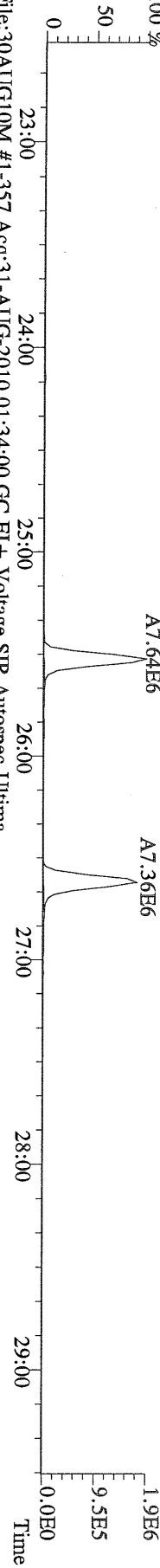
File:30AUG10M #1-357 Acq:31-AUG-2010 01:34:00 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



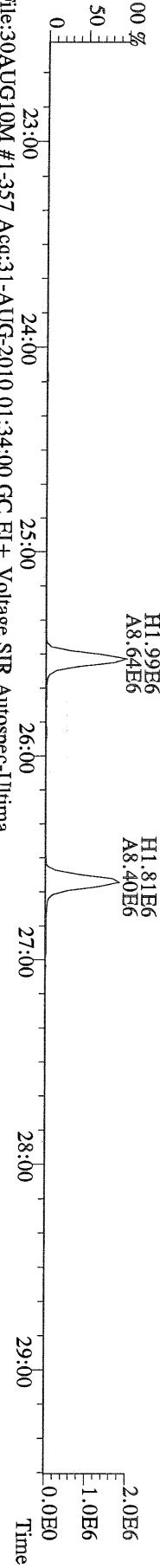
File:30AUG10M #1-357 Acq:31-AUG-2010 01:34:00 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



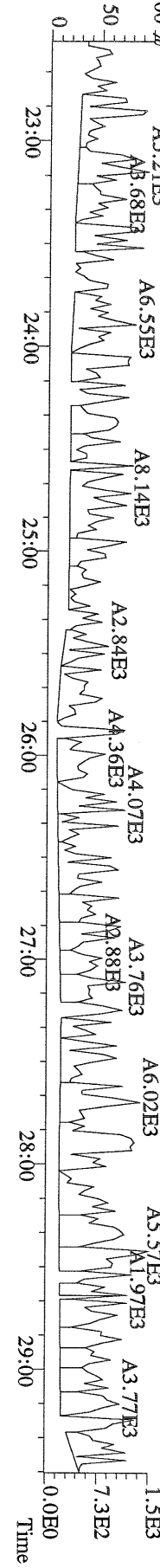
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317.9389 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



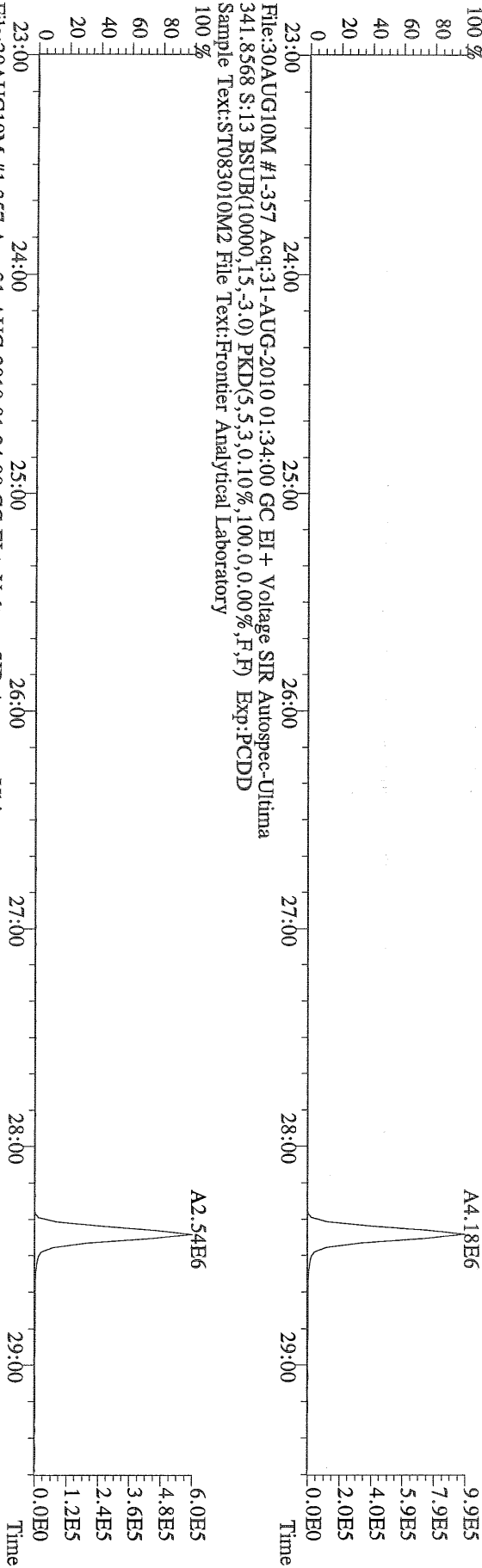
File:30AUG10M #1-357 Acq:31-AUG-2010 01:34:00 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



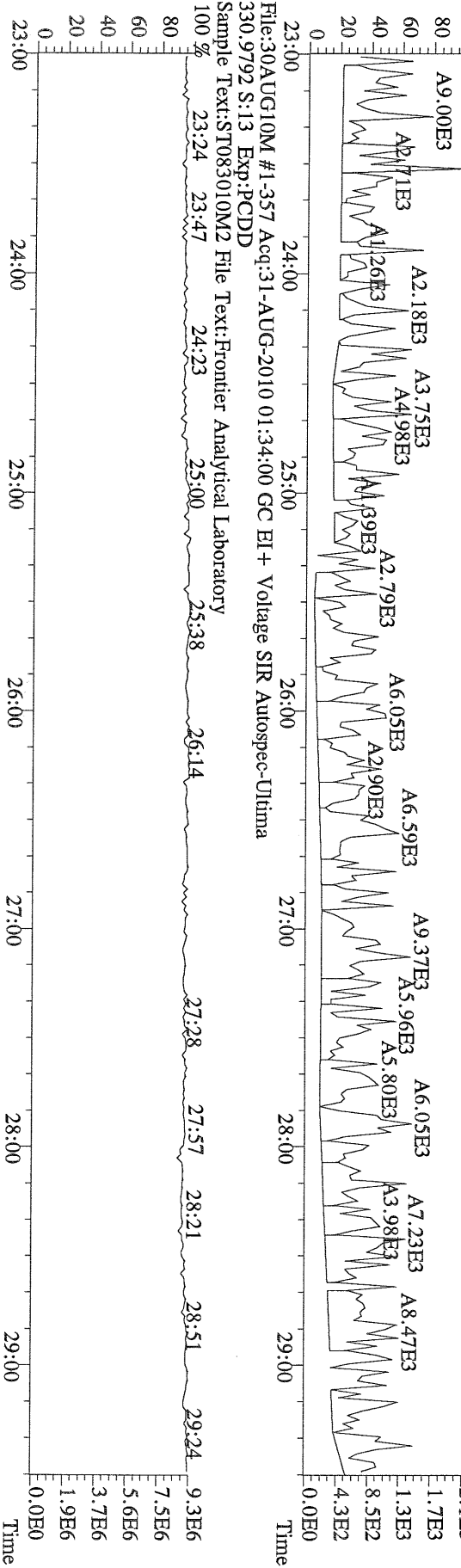
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



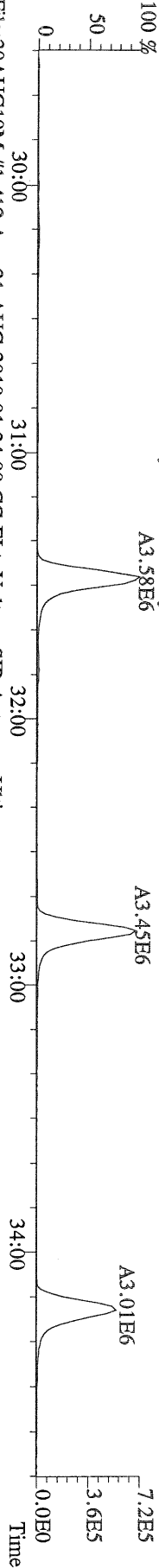
File:30AUG10M #1-357 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



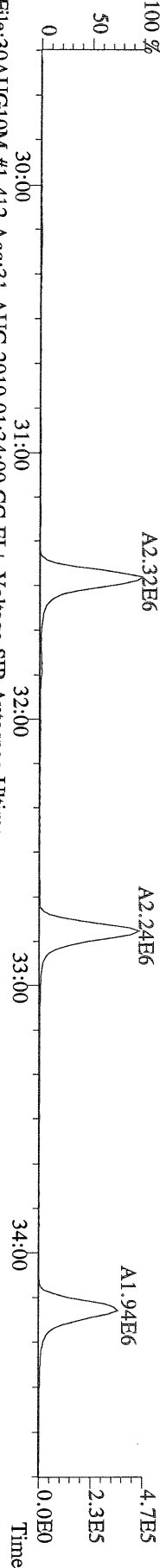
File:30AUG10M #1-357 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



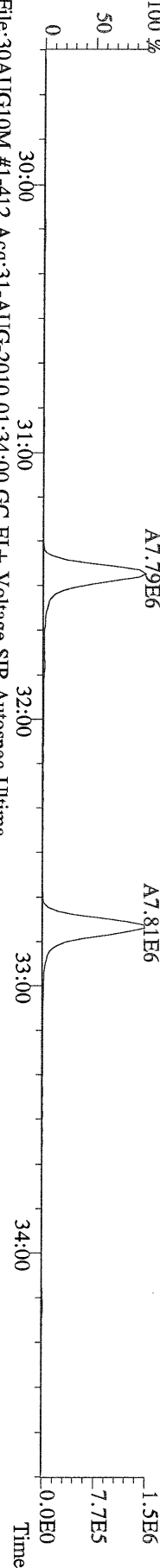
File:30AUG10M #1-412 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



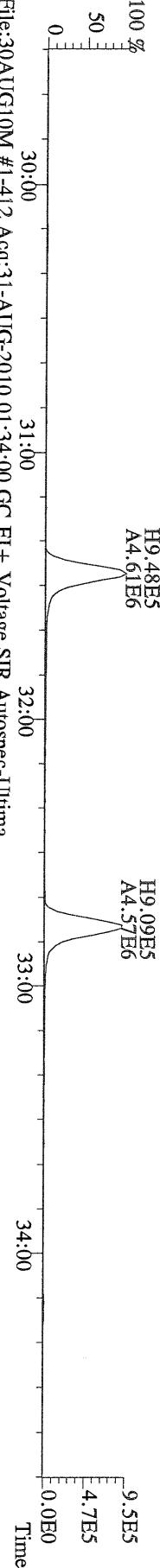
File:30AUG10M #1-412 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



File:30AUG10M #1-412 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



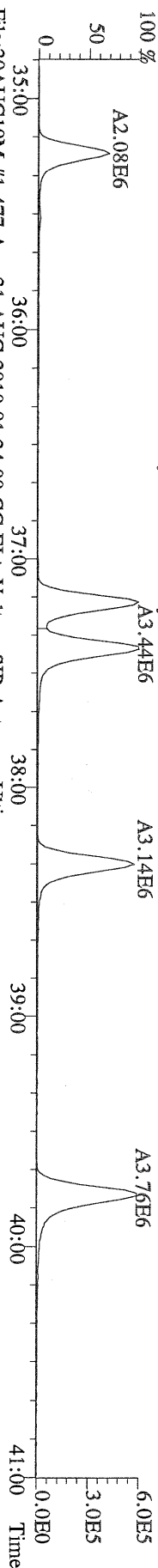
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 409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



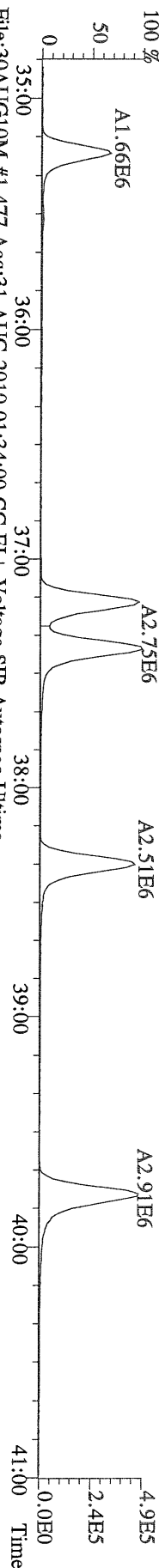
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 Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



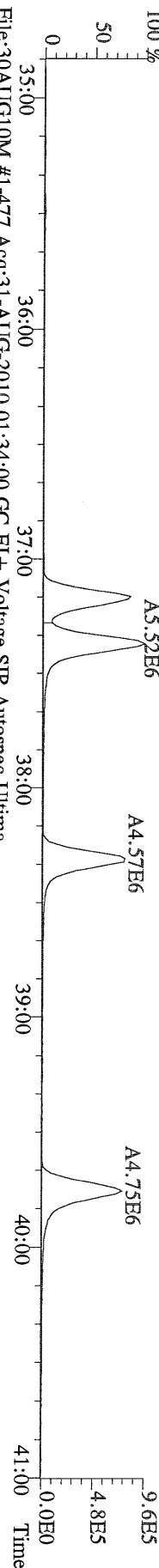
File:30AUG10M #1-477 Acq:31-AUG-2010 01:34:00 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



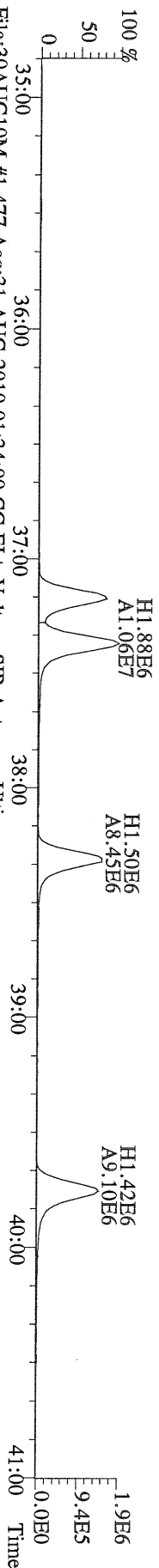
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375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



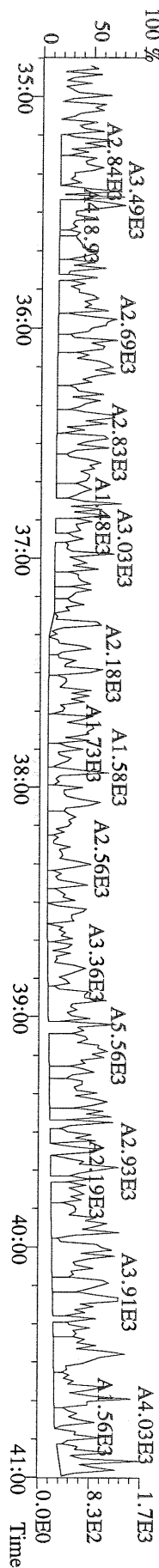
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383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



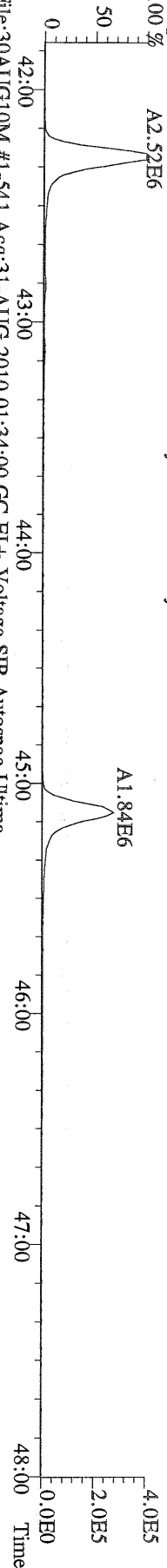
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385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



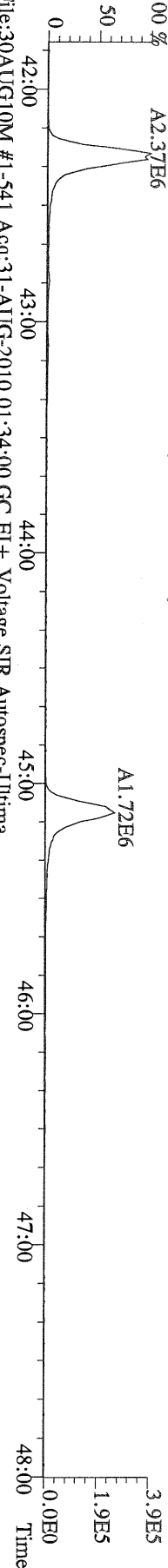
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445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



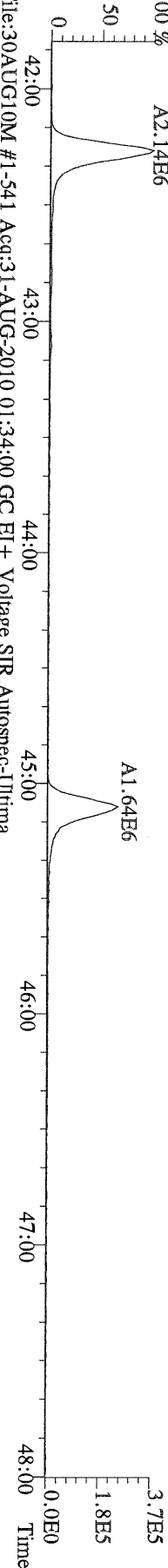
File:30AUG10M #1-541 Acq:31-AUG-2010 01:34:00 GC EI + Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



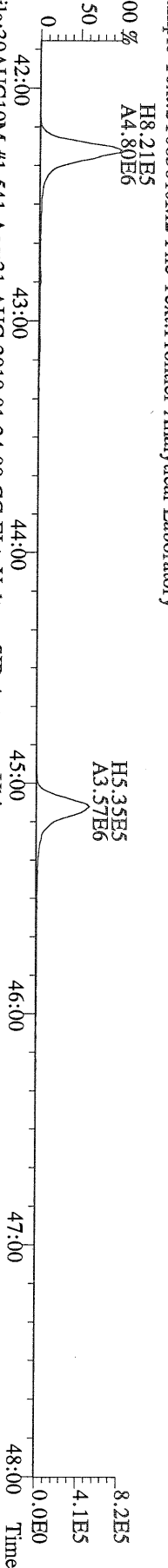
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409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



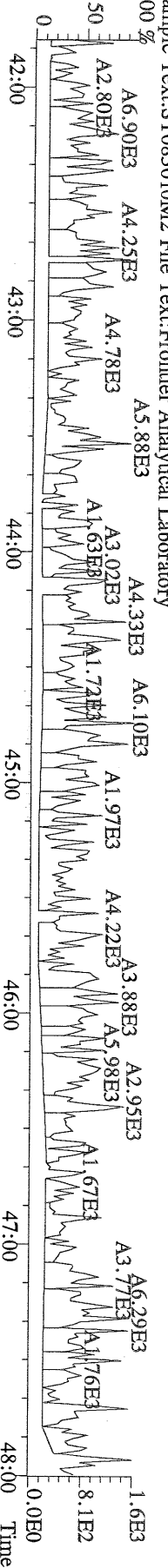
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417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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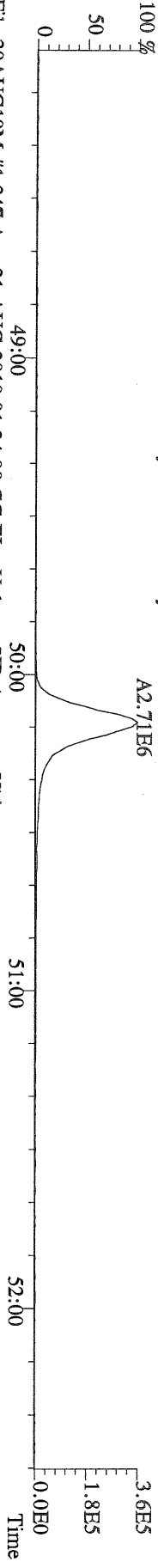
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419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



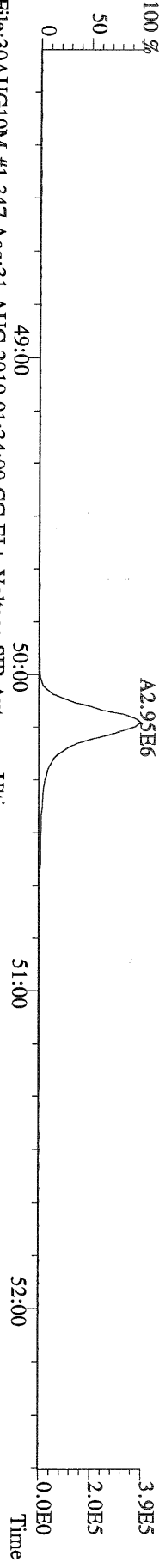
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479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



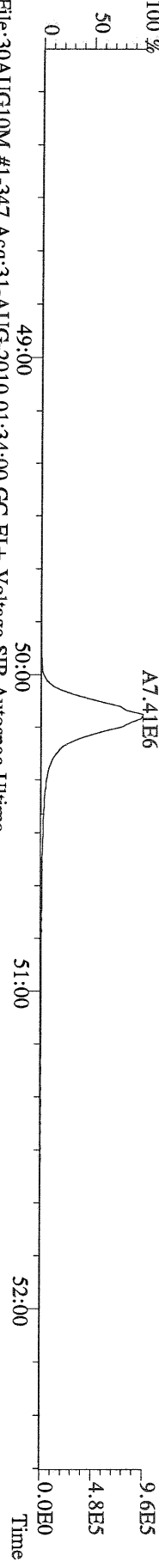
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441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



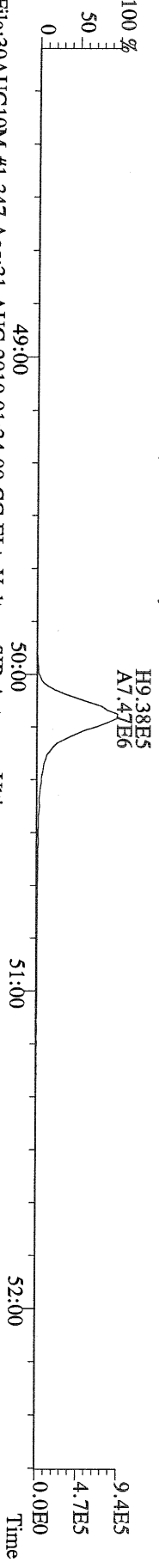
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443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



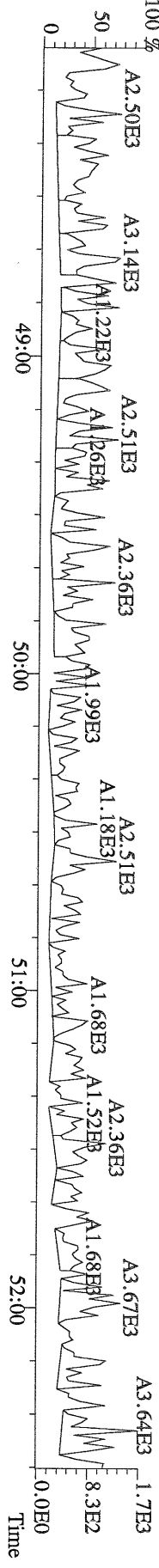
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453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory



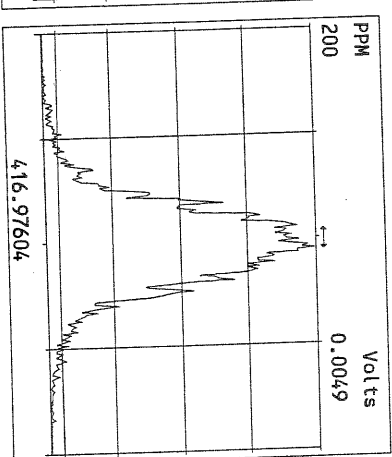
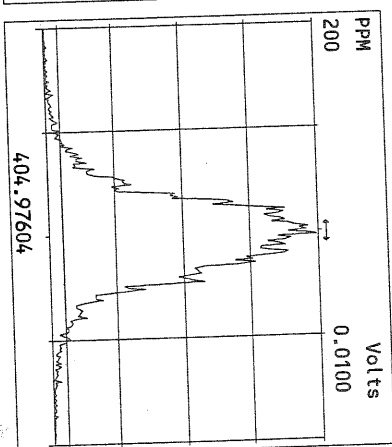
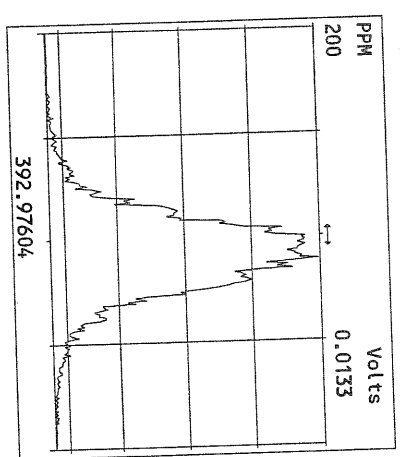
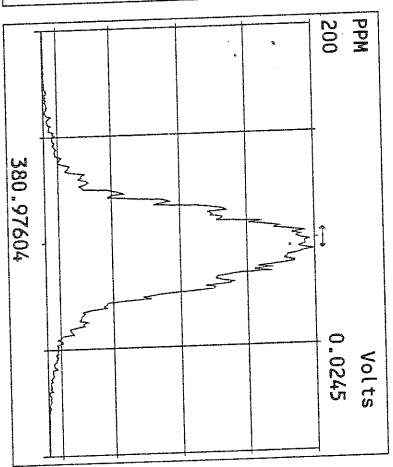
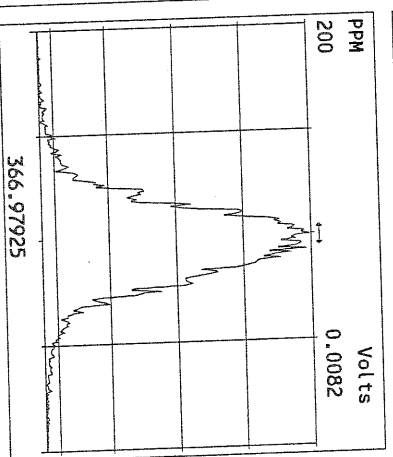
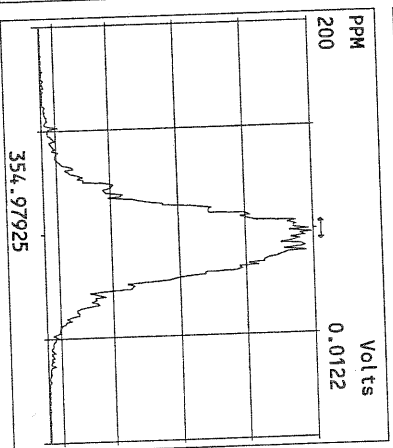
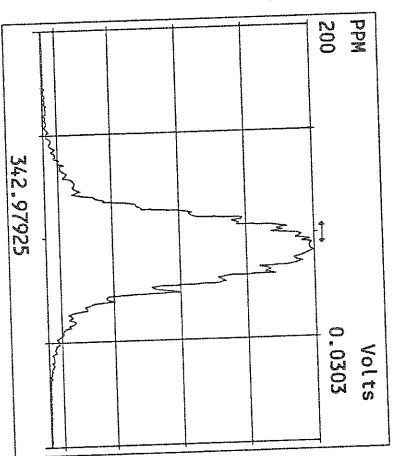
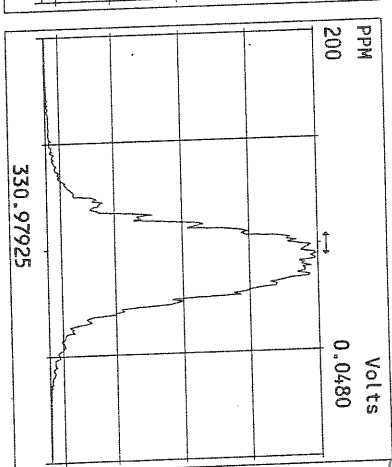
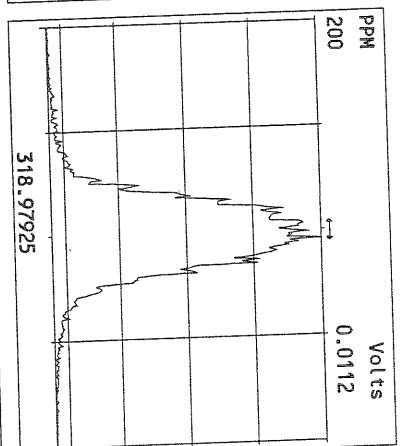
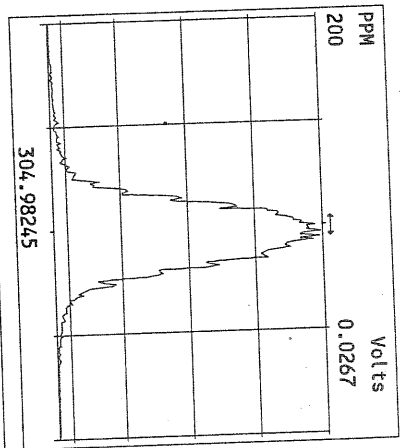
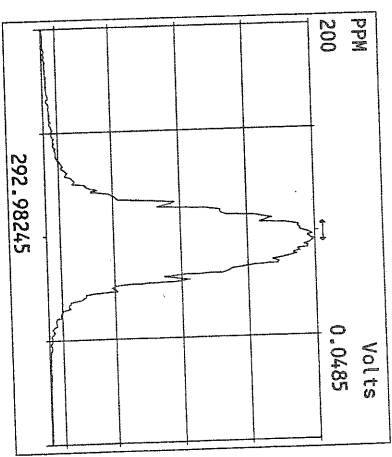
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Sample Text:ST083010M2 File Text:Frontier Analytical Laboratory

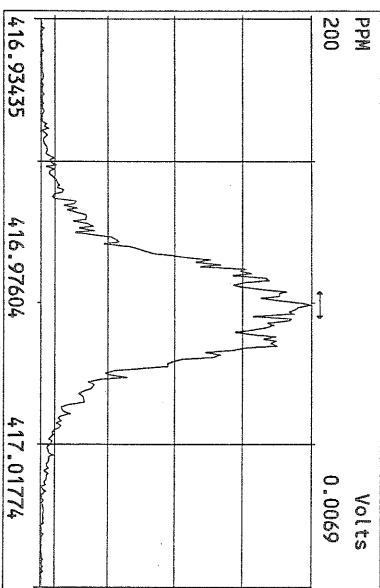
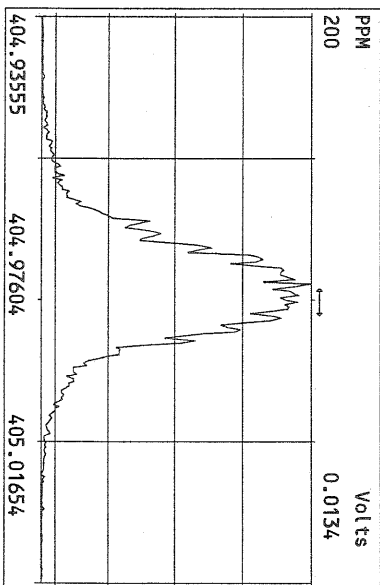
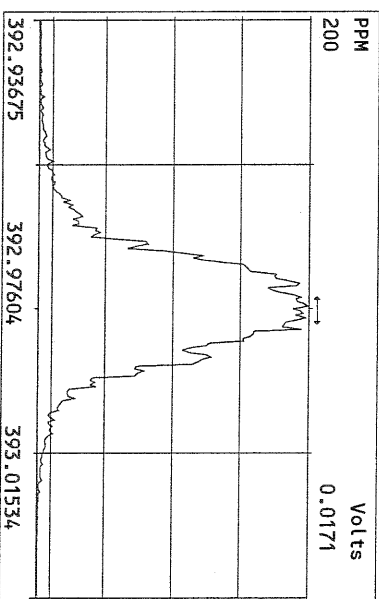
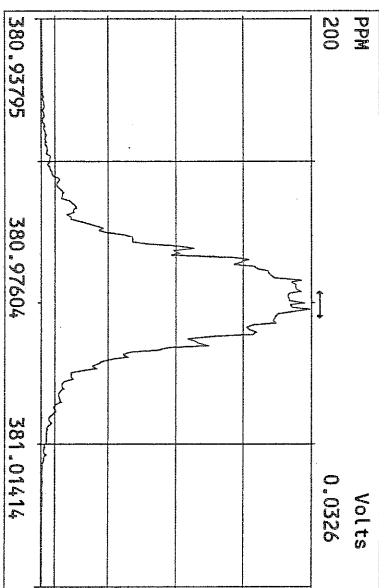
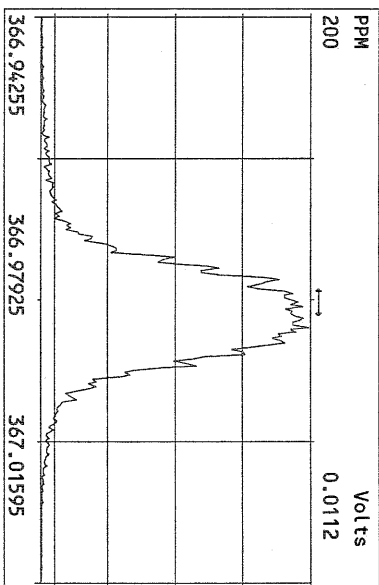
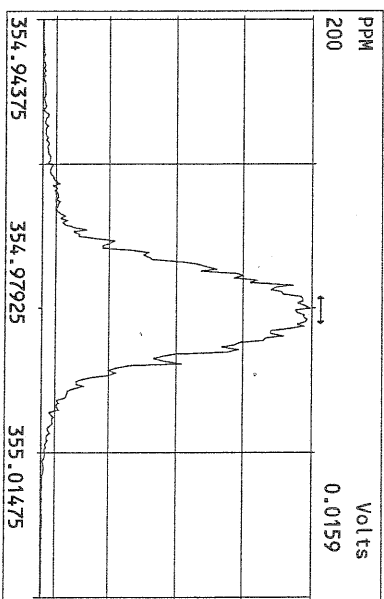
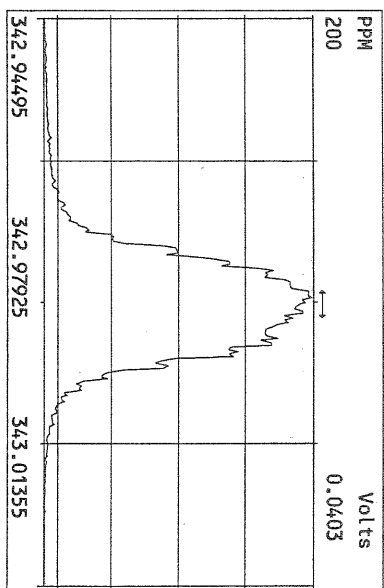
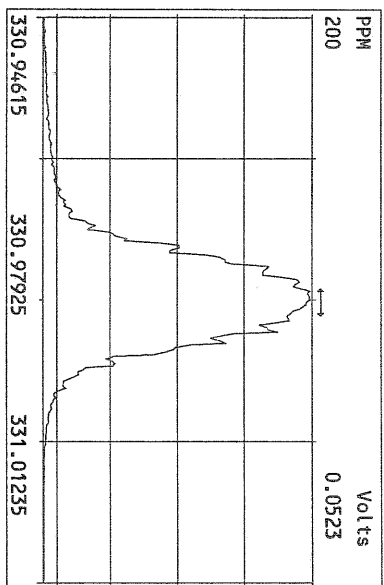


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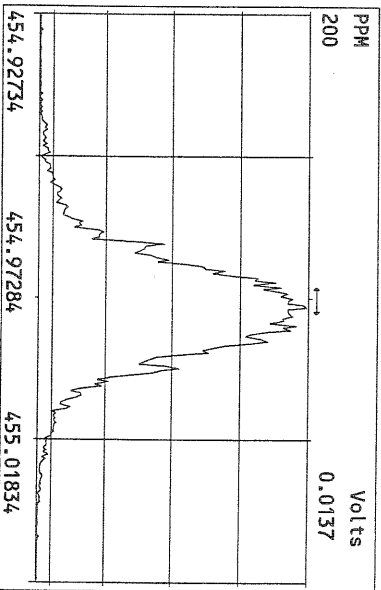
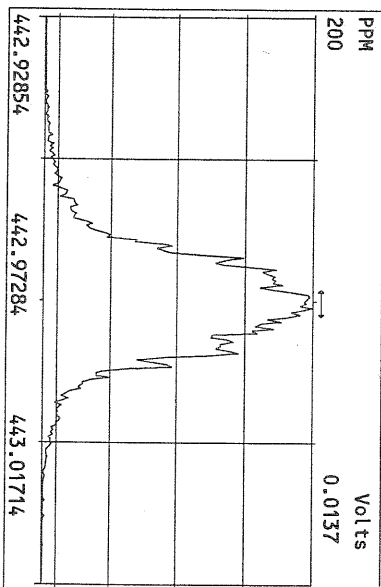
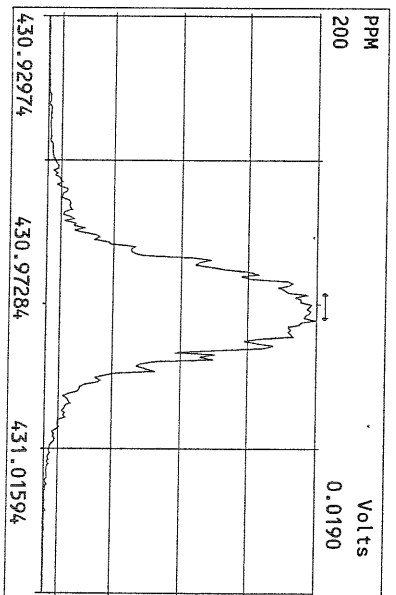
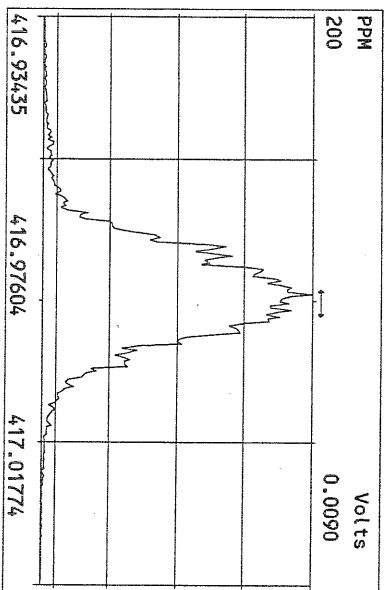
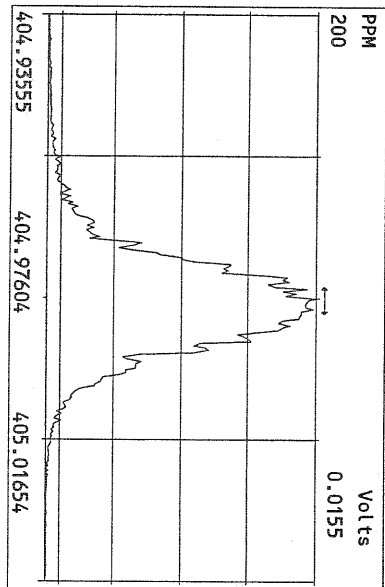
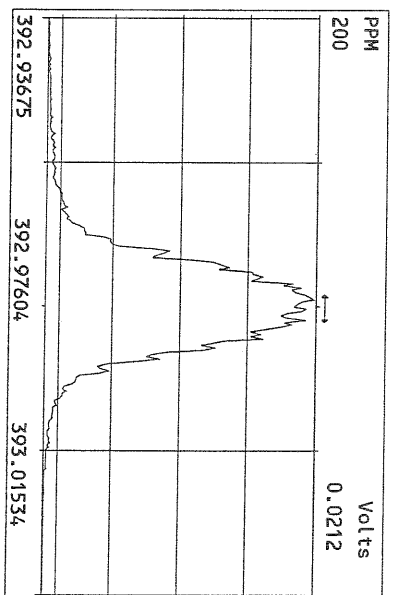
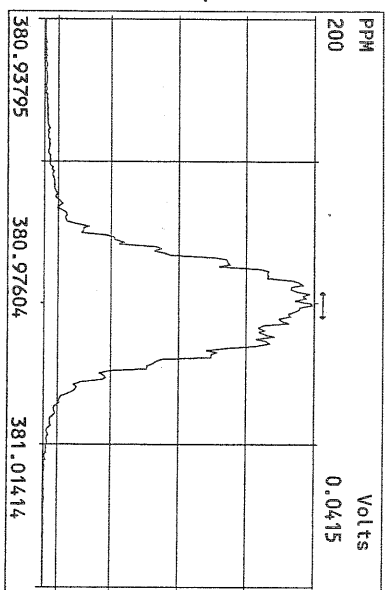
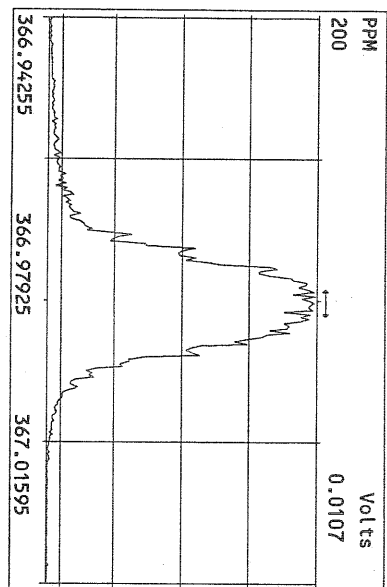


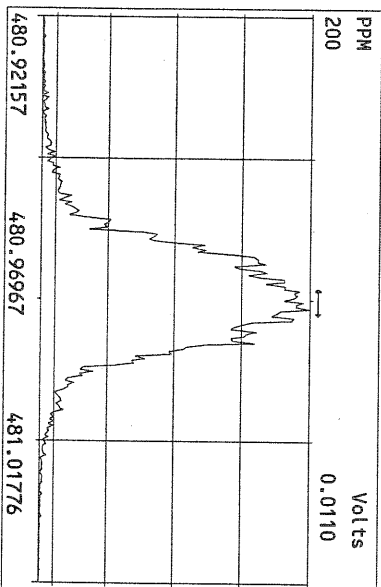
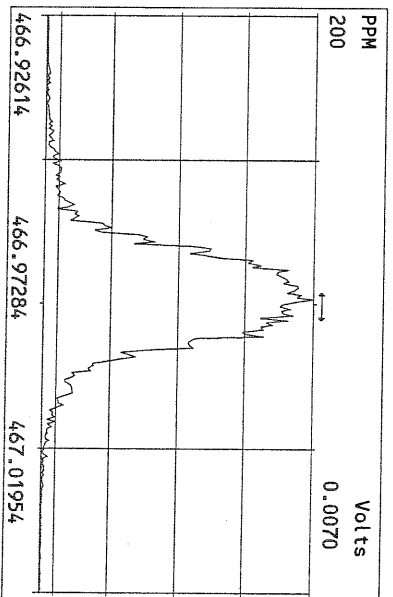
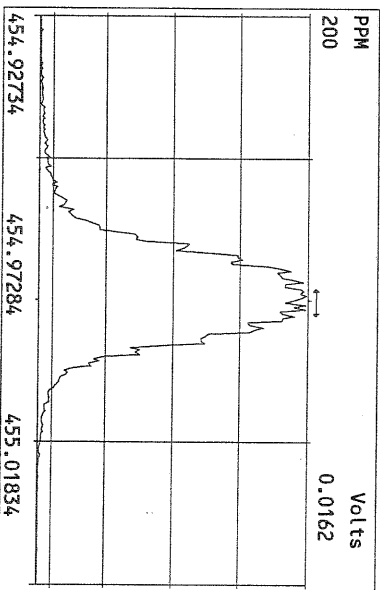
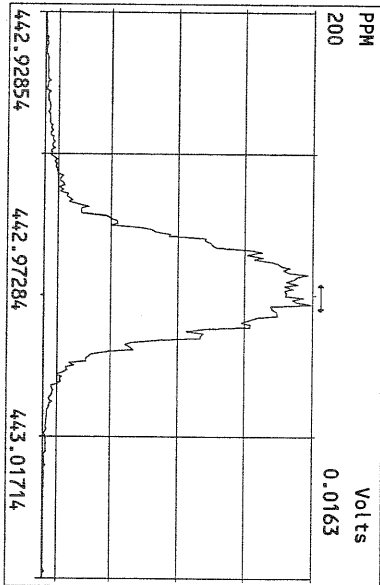
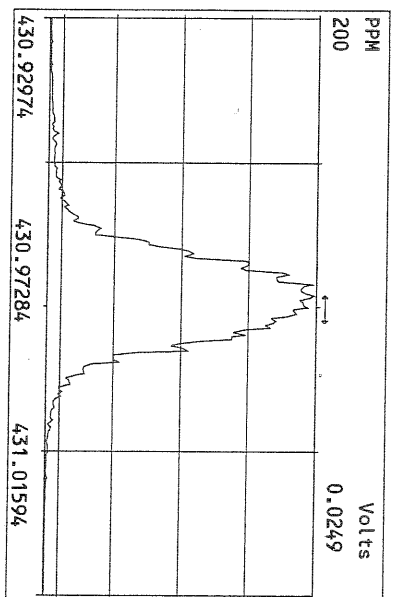
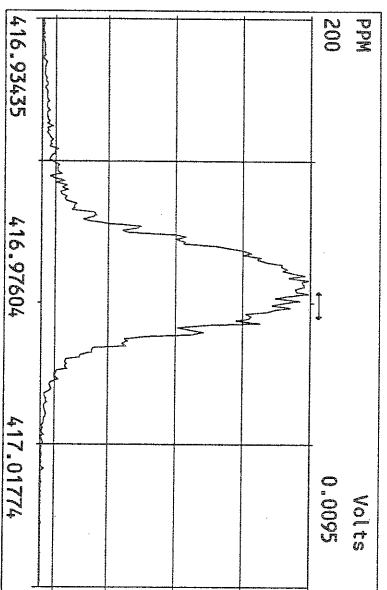
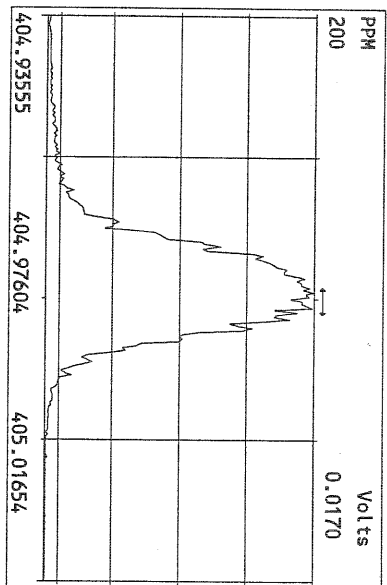
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Experiment: PCDD Function: 1 Reference: PFK





Peak Locate Examination:31-AUG-2010:07:04 File:30AUG10M_RES_CHECK
 Experiment:PCDD Function:3 Reference:PFK





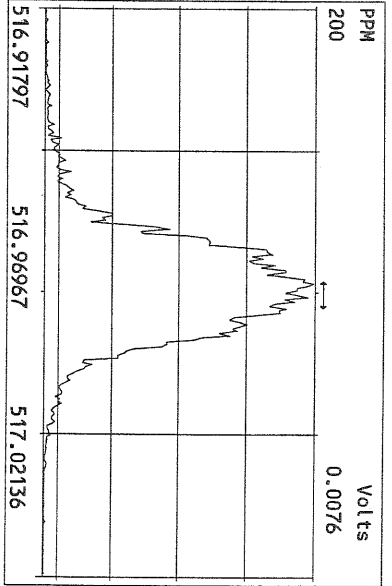
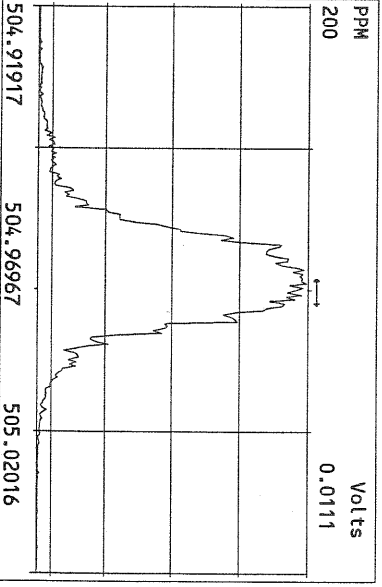
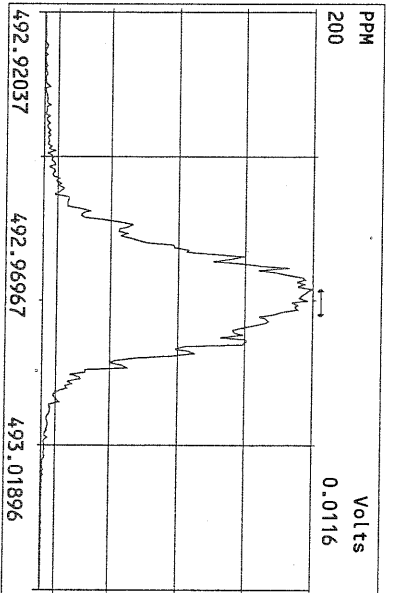
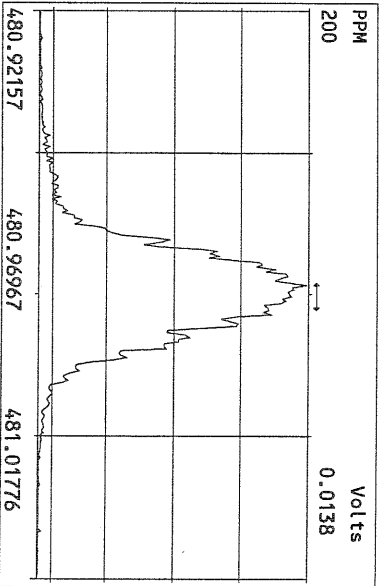
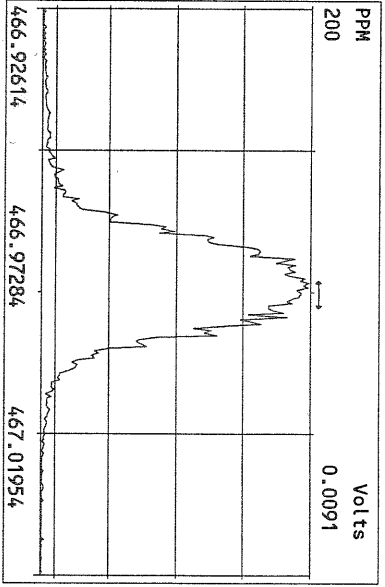
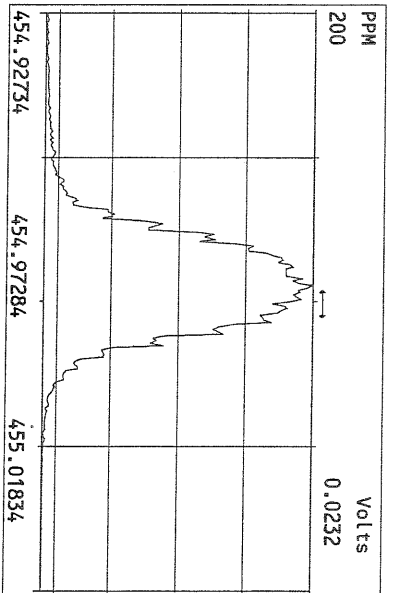
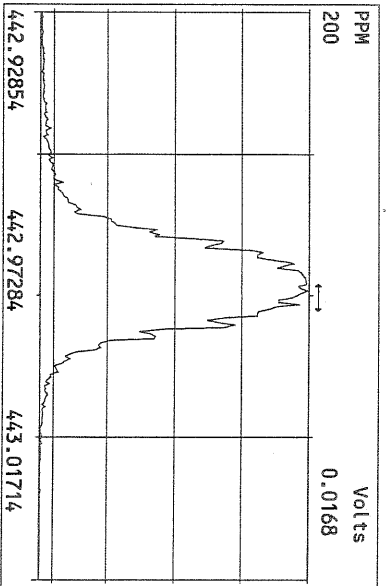
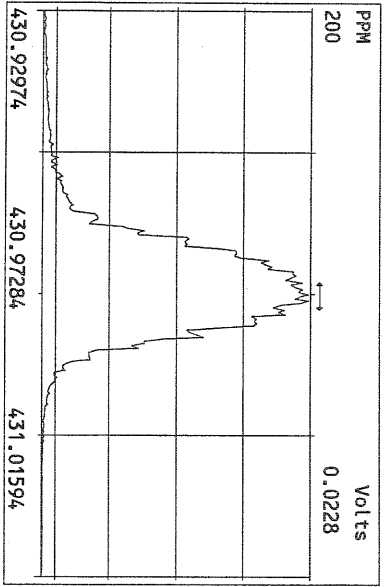


Table of Contents: ARI Job SF26, SF50, SF76

Client: Floyd-Snider

Project: POS-LLA Lora Lakes Apts RI

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SIM PAH Analysis			
Report and Summary QC Forms	<u>85</u>	<u>122</u>	
PCP/Chlorophenols Analysis			
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TPHD Analysis			
Report and Summary QC Forms	<u>167</u>	<u>192</u>	
TPHG/BETX Analysis			
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Initial Calibration	<u>607</u>	<u>737</u>	
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BL
Signature

January-31-2011
Date

Table of Contents: ARI Job SF26, SF50, SF76

Client: Floyd-Snider

Project: POS-LLA Lora Lakes Apts RI

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TPHD Raw Data		
Extractions Bench Sheets and Notes	<u>1129</u>	<u>1131</u>
Initial Calibration	<u>1132</u>	<u>1211</u>
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Analyst Notes and Raw Data	<u>1657</u>	<u>1676</u>

130
Signature

January-31-2011
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 7, 2011

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

RE: Client Project: Lora Lake Apartments RI, POS-LLA
ARI Job Nos.: SF26, SF50, & SF76

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) records, 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. Dunninghoo".

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

Enclosures

cc: eFile SF26_SF50_SF76

SD/co

Chain of Custody Documentation

ARI Job ID: SF26, SF50, SF76



Cooler Receipt Form

ARI Client: Floyd Snider
COC No(s): _____ NA
Assigned ARI Job No: SF26

Project Name: Lora Lake Apts RI
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)..... 4.0 4.2 5.7 38
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 10941679
 Cooler Accepted by: AV Date: 1/19/11 Time: 1750

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? 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..... NA 1/14 + 1/8
 Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 1/20/11 Time: 945

**** 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:

TB-02-01911 = sm in 1 of 1
 TB-03-011911 = sm in 1 of 1
 TB-04-011911 = sm in 1 of 1

By: JM Date: 1/20/11

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

PRESERVATION VERIFICATION 01/20/11

Page 1 of 1



ARI Job No: SF26

PC: Sue D.
VTSR: 01/19/11

Inquiry Number: NONE
Analysis Requested: 01/20/11
Contact: Massingale, Jessi
Client: Floyd-Snyder
Logged by: JM
Sample Set Used: Yes-482
Validatable Package: No
Deliverables:

Project #: POS-LLA
Project: Lora Lake Apts RI
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102Fe2+ <2	AK102Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-1071 SF26A	MW11-011911						DIS									Y					
11-1072 SF26B	MW10-011911						DIS									Y					
11-1073 SF26C	MW07-011911						DIS									Y					
11-1074 SF26D	MW14-011911						DIS									Y					

SF 26 : 000001

Checked By JM Date 1/20/11



Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: Lova Lake Apt RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier / Hand Delivered Other: _____

Assigned ARI Job No: CF50

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)..... 2.4 0.0 1.0 0.9 5.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: SM Date: 1/20/11 Time: 1746

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? 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..... NA 1/21/11

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SM Date: 1/21/11 Time: 1100

**** 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: _____

<p>Small Air Bubbles ~2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



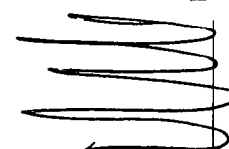
ARI Job No: SF50
 PC: Sue D.
 VTSR: 01/20/11

Inquiry Number: NONE
 Analysis Requested: 01/21/11
 Contact: Massingale, Jessi
 Client: Floyd/Snider
 Logged by: MM
 Sample Set Used: Yes-481
 Validatable Package:
 Deliverables:

Project #: POS-LLA
 Project: Lora Lake Apts RI
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/ BY
11-1198 SF50A	MW13-012011						DIS pass									Y						
11-1199 SF50B	MW06-012011						DIS									Y						
11-1200 SF50C	MW12-012011						DIS									Y						
11-1201 SF50D	MW04-012011						DIS A									Y						
11-1202 SF50E	MW17-012011																					
11-1203 SF50F	MW03-012011						DIS pass									Y						

SF 125 : 52000

Checked By  Date 1/21/11

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **SFH6** Turn-around Requested: **STL** Page: **1** of **1**

ARI Client Company: **Floyd Snider** Phone: **208-292-2078** Date: **1/21/2011** Ice Present? **X**

Client Contact: **Jessi Messing / Megan McCullough** Cooler Temps: **2, 3, 5, 6**

Client Project Name: **Lava Lake AFB RI** No. of Coolers: **4**

Client Project #: **POS-LM** Samplers: **K. Anderson, T. Stevens**



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

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments		
					CPAT/PCP (1613)	TPH-dred/oi (NMPH-DK)	AsPB class (208-8)	PH (50.1)	SS (SM 2540D)	VOC (8260C)		CA5/BETX (NMPH-DK)	
MW-05-012111	1/21/2011	0925	GW	13	X	X	X	X	X	X	X	X	
MW-05-012111		1010		16	X	X	X	X	X	X	X	X	
MW-16-012111		0221		13	X	X	X	X	X	X	X	X	
MW-02-012111		1250		16	X	X	X	X	X	X	X	X	
MW-09-012111		1430		16	X	X	X	X	X	X	X	X	
MW-08-012111		1455		16	X	X	X	X	X	X	X	X	
MW-01-012111		1620		17	X	X	X	X	X	X	X	X	
MW-01-012111-D		1640		16	X	X	X	X	X	X	X	X	
TP-012111		1650		4	X	X	X	X	X	X	X	X	

Comments/Special Instructions: **+ see project - specific voc list**

Relinquished by (Signature): *[Signature]* Received by (Signature): *[Signature]*

Printed Name: **Karin Anderson** Company: **ARI** Printed Name: **A. Volgardsen** Company: **ARI**

Date & Time: **1/21/11 1805** Date & Time: **1/21/11 1805**

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: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Floyd Soder

Project Name: Lora Lakes RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SF76

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)..... 2.5 5.6 5.0 4.6

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 1/21/11 Time: 1805

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? 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) AV

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..... NA 1/21/11

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 1/21/11 Time: 1154

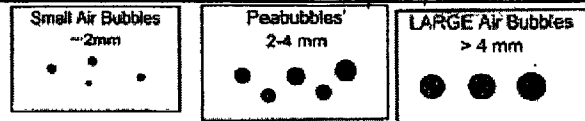
**** Notify Project Manager of discrepancies or concerns ****

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

Additional Notes, Discrepancies, & Resolutions:

~~the 1-01211-0 has only 15 bottles, NO HL Ambers. 2 500ml Ambers for Dioxins~~ AV
Dash added to first sample ID for consistency of format 1/24/11 SID

By: AV Date: 1/22/11



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



ARI Job No: SF76
 PC: Sue D.
 VTSR: 01/21/11

Inquiry Number: NONE
 Analysis Requested: 01/24/11
 Contact: Massingale, Jessi
 Client: Floyd-Snyder
 Logged by: AV
 Sample Set Used: Yes-482
 Validatable Package: yes
 Deliverables:

Project #: POS-LLA
 Project: Lora Lakes Apts RI
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-1418 SF76A	MW15-012111						X														
11-1419 SF76B	MW-05-012111						DIS POS														
11-1420 SF76C	MW-16-012111						X														
11-1421 SF76D	MW-02-012111						DIS POS											L2	I5780	2.5 mL	01/24/11 KM
11-1422 SF76E	MW-09-012111						DIS POS														
11-1423 SF76F	MW-08-012111						DIS														
11-1424 SF76G	MW-01-012111						DIS														
11-1425 SF76H	MW-01-012111-D						DIS														

Checked By AV Date 1/24/11

Subject: FW: (Another) Lora Lakes Sample Acknowledgment
From: Megan McCullough <Megan.McCullough@floydsnider.com>
Date: Mon, 24 Jan 2011 13:10:42 -0800
To: 'Sue Dunnihoo' <sue@arilabs.com>
CC: Jessi Massingale <jessi.massingale@floydsnider.com>

Hi Sue -

This email is for your records.

Per our phone call, please add analysis of VOCs by 8260 to samples MW-09-012111, MW-08-012111, MW-01-012111 and MW-01-012111-D for sample group SF76.

Thank you!
Megan

-----Original Message-----

From: Bob Congleton [<mailto:bob@arilabs.com>]
Sent: Monday, January 24, 2011 12:45 PM
To: Jessi Massingale; Megan McCullough
Subject: (Another) Lora Lakes Sample Acknowledgment

Jessi, Megan -

Please find attached the sample acknowledgment for ARI job number SF76.

Thank you,

Bob

--

Bob Congleton
Client Services
Analytical Resources, Inc.
206-695-6232
bob@arilabs.com

This correspondence contains confidential information from Analytical Resources, Inc. The information contained herein is intended solely for the use of the individual(s) named above. If you are not the intended recipient, any copying, distribution, disclosure, or use of the text and/or attached document(s) is strictly prohibited.

If you have received this correspondence in error, please notify sender immediately. Thank you.

Content-Description: SF76_Samp_Receipt.pdf
SF76_Samp_Receipt.pdf Content-Type: application/pdf
Content-Encoding: base64

SF76_COC.pdf

SF76_COC.pdf Content-Description: SF76_COC.pdf

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: SF26, SF50, SF76



Case Narrative

Client: Floyd Snider

Project: Lora Lake Apartments RI, POS-LLA

Matrix: Water

ARI Job Nos.: SF26, SF50, & SF76

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples and four trip blanks on January 19, 2011 under ARI job SF26. The cooler temperatures measured by IR thermometer following ARI SOP were 3.8, 4.0, 4.2, and 5.7°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

ARI accepted six water samples and one trip blank on January 20, 2011 under ARI job SF50. The cooler temperatures measured by IR thermometer following ARI SOP were 0.6, 0.9, 1.0, 2.4, and 5.2°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

ARI accepted eight water samples and one trip blank on January 21, 2011 under ARI job SF76. The cooler temperatures measured by IR thermometer following ARI SOP were 2.5, 4.6, 5.0, and 5.6°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The Frontier report is included here in its entirety.

SIM Volatiles by SW8260

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 blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.



SIM Semivolatiles by SW8270

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

Initial calibrations were within limits.

The 1/26/11 and 1/27/11 continuing calibrations (CCALs) were outside the 20% control limit low for Chrysene. All detected results associated with these CCALs have been flagged with a “Q” qualifier. No further corrective action was taken.

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 were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Pentachlorophenol by SW8041

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

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

The surrogate percent recoveries were within control limits.

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

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Acid/Silica Cleaned NWTPH-Dx

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 recoveries were within advisory control limits.

NWTPH-Gx/BETX by SW8021B Mod.

The samples and associated laboratory QC were 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 and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike percent recoveries of Benzene were outside the control limits high for sample **MW14-011911**. No corrective action is required for matrix QC.

Dissolved Arsenic and Lead by EPA 200.8

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

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

The matrix spike percent recoveries and duplicate RPDs were within control limits.

General Chemistry (pH and TSS)

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

The method blanks were clean at the reporting limit. The LCS percent recoveries were within control limits.

The TSS replicate RPD for sample **MW13-012011** was outside the control limit high. All other quality control parameters were met for this analysis. No corrective action was taken.



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.
- Y Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- 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
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**

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



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- 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

SURRE SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1780-2	ABN	100/150	MEOH	05/15/11
B	1771-1	SIM PNA	15/75	ACETONE	10/05/11
C	1705-4	SIM ABN	25/37.5	MEOH	03/08/11
D	1795-4	LOW PCB	0.2	ACETONE	12/16/11
E	1771-3	HERB	62.5	MEOH	10/06/11
F	1791-3	PCP	12.5	ACETONE	12/09/11
G	1758-4	1,4DIOXANE	100	MEOH	02/11/11
H	1723-2	OP-PEST	25	MEOH	04/02/11
I	1771-2	LOW S. PNA	1.5	ACETONE	10/05/11
J	1787-2	TBT-PORE	0.125	MECL2	11/27/11
K	1795-2	MED PCB	20	ACETONE	12/16/11
L	1785-4	TBT	2.5	MECL2	11/27/11
M	1767-1	EPH	1500	MECL2	06/02/11
N	1795-3	PCB	2	ACETONE	12/16/11
O	1792-1	TPH	450	MECL2	08/05/11
P	1768-1	HCID	2250	MECL2	08/05/11
Q	NA	EDB	1	MEOH	NA
R	1757-3	RESIN ACID	250	ACETONE	08/14/11
S*	1568-5	PBDE	.25	MEOH	01/13/11
T	1768-2	ALKYL PNA	10	MEOH	07/22/11
U	NA	CONGENER	2.5	ACETONE	NA
V	1791-4	LOW PCP	1.25	ACETONE	12/09/11
*reverified solution					

LCS SOLUTIONS

1/4/11

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1789-3	PCB 1660	20	ACETONE	12/03/11
2#	NA	BCOC PEST	10	ACETONE	NA
3	1793-3	PEST	01/02/10	ACETONE	12/15/11
4	1806-2	LOW PEST	.1/.2/1	ACETONE	12/15/11
5	1779-1	EPH	1500	MECL2	11/11/11
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1789-2	ABN	100	MEOH	10/01/11
8	1785-3	TBT	2.5	MECL2	11/27/11
9	1786-3	PORE TBT	.125/.25	MECL2	11/27/11
10	1790-1	ABN ACID	100/200	MEOH	06/07/11
11	1777-2	TPHD	15000	ACETONE	11/01/11
12	1790-2	ABN BASE	200	MEOH	06/07/11
13	1716-2	LOW PCB	2	ACETONE	03/30/11
14	1753-3	LOW ABN ACID	10/20	MEOH	01/28/11
15	1771-4	SIM PNA	15/75	MEOH	01/29/11
16	1776-2	DIOXANE	100	MEOH	04/09/11
17	1772-3	1248 PCB	10	ACETONE	05/01/11
18	1771-5	LOW SIM PNA	1.5	ACETONE	01/29/11
19	1746-3	AK103	7500	ACETONE	12/01/10
20	1775-3	PNA	100	ACETONE	08/14/11
21	1725-1	SKY/BHT	100	MEOH	03/18/11
22	1781-1	HERB	05 to 4000	MEOH	04/15/11
23	1753-4	LW ABN BASE	20	MEOH	01/29/11
24	1758-2	LOW ABN	10	ACETONE	01/13/11
25#	NA	DIPHENYL	100	MEOH	NA
26	1789-1	OP-PEST	25	MEOH	04/02/11
27	NA	STEROLS	200	MEOH	NA
28#	1807-1	ADD. PEST	2	ACETONE	08/31/11
29#	NA	DECANES	100	MEOH	NA

LCS SOLUTIONS

30	NA	EDB/DBCP	0.2	MEOH	NA
31	1707-3	TERPINEOL	100	MEOH	03/19/11
32	1758-1	GUAIACOL	50-200	ACETONE	01/08/11
33	NA	RETENE	100	MEOH	NA
34	NA	CONGENERS	2.5	ACETONE	NA
35	NA	ALKYL PNA A	10	MEOH	NA
36	NA	ALKYL PNA B	10	MEOH	NA
37	1773-1	CAR/PERY	100	ACETONE	10/14/11
50	1757-4	FULL RESIN	250	ACETONE	08/14/11
51	1772-1	DDTS	0.01	ACETONE	04/24/11
52	NA	1232 PCB	20	ACETONE	NA
53	1780-1	DALAPON	50	MEOH	05/07/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
		#=PROJECT SPECIFIC SOLUTION			
		*=REVERIFIED SOLUTION			



Spike Recovery Control Limits for SIM VOA
EPA Method SW-846-8260C ^(1,2)
Effective 8/30/2010

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	80 - 120
1,2-Dichloroethane	80 - 128
<i>cis</i> -1,2-Dichloroethene	80 - 120
<i>trans</i> -1,2-Dichloroethene	80 - 120
Trichloroethene	80 - 120
Benzene	80 - 120
Tetrachloroethene	80 - 122
1,1,2,2-Tetrachloroethane	80 - 128
Method Blank/LCS Surrogate Recovery	
d4-1,2-Dichloroethane	78 - 126
d8-Toluene	80 - 120
Sample Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 129
d8-Toluene	80 - 120

(1) Control limits calculated using historic data collected from 1/1/10 to 8/23/10

(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.



**Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons
Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified
Low Level Aqueous Samples^(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>

Sample Volume / Final Volume	500 mL to 0.5 mL	
	Control Limits	ME Limits ⁽²⁾
LCS Spike Recovery ⁽⁶⁾		
Napthalene	41 - 101	31 - 111
2-Methylnapthalene	47 - 100	39 - 103
1-Methylnapthalene	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾
Acenaphthylene	35 - 100	25 - 104
Acenaphthene	43 - 104	33 - 114
Dibenzofuran	37 - 100	27 - 108
Fluorene	51 - 103	42 - 112
Phenanthrene	55 - 109	46 - 118
Anthracene	30 - 101	18 - 113
Fluoranthene	49 - 123	37 - 135
Pyrene	48 - 120	36 - 132
Benz(a)anthracene	43 - 113	31 - 125
Chrysene	59 - 112	50 - 121
Benzofluoranthene(s) (Total)	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾
Benzo(a)pyrene	10 - 100	10 - 109
Indeno(1,2,3-cd)pyrene	43 - 112	32 - 124
Dibenzo(a,h)anthracene	42 - 114	30 - 126
Benzo(g,h,i)perylene	31 - 118	17 - 133
MB / LCS Surrogate Recovery		
d10-2-Methylnaphthalene	42 - 100	(4)
d14-Dibenzo(a,h)anthracene	40 - 125	(4)
Sample Surrogate Recovery		
d10-2-Methylnaphthalene	31 - 109	(4)
d14-Dibenzo(a,h)anthracene	10 - 133	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) **ME = A marginal exceedance** defined in the NELAC Standard ⁽⁵⁾ 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 one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(3) 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.

(4) Marginal Exceedances not allowed for surrogate standards.

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

(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**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(8) Default limits pending generation of historic limits for total benzofluoranthrenes (7/29/10)



Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041^(1,2)
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's Calculated Control Limits	
	Water	Soil / Sediment
Sample Matrix:		
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery⁽³⁾		
Pentachlorophenol	27 - 115	10 - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	10 - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(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.



Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID) and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) ⁽¹⁾
Effective 10/4/10

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 ⁽³⁾	Soil ⁽⁴⁾	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 ⁽⁵⁾				
Diesel	-	60 - 111	64 - 116	75 - 125
Diesel with Acid & Silica Clean-up	-	49 - 107	59 - 108	(6)
Diesel with Silica Clean-up		49 - 107	59 - 108	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-	56 - 130	64 - 134	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-	53 - 123	59 - 134	(6)
o-Terphenyl Silica Clean-up		53 - 123	59 - 134	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	52 - 134	52 - 130	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-	49 - 118	43 - 137	(6)
o-Terphenyl with Silica Clean-up	-	49 - 118	43 - 137	50 - 150

1. Control Limits calculated using all data generated 1/1/10 through 9/1/10
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Separatory Funnel Extraction – EPA Method 3510C
4. Microwave Extraction – EPA Method 3546
5. 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.
6. Alaska State UST Methods do not allow acid cleanup of sample extracts.



Spike Recovery Control Limits BTEX – EPA Method 8021 & Gasoline – Methods NWTPH-G and AK101^(1,2)				
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				
Sample Matrix:	Aqueous Samples		Soil / Sediment Samples	
Analytical Method:	Method 8021B	NWTPH-G AK-101	Method 8021B	NWTPH-G AK-101
LCS Spike Recovery⁽³⁾				
Benzene	73 - 120		72 - 120	
Toluene	73 - 120		72 - 120	
Ethyl benzene	69 - 120		71 - 120	
<i>m,p</i> -Xylenes	72 - 120		72 - 120	
<i>o</i> -Xlyene	73 - 120		72 - 120	
MTBE	30 - 182		40 - 163	
Gasoline		75 - 124		74 - 124
Method Blank/LCS Surrogate Recovery				
Trifluorotoluene (TFT)	79 - 120	80 - 120	80 - 120	80 - 120
Bromobenzene	79 - 120	80 - 120	77 - 120	80 - 120
Sample Surrogate Recovery				
Trifluorotoluene (TFT)	80 - 120	80 - 120	68 - 124	66 - 123
Bromobenzene	80 - 120	80 - 120	62 - 134	62 - 130

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

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

a) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

b) Control limits for analytes 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.



Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

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>

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%



Spike Recovery Control Limits for Conventional Wet Chemistry		
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's Control Limits	
Sample Matrix:	Water	Soil / Sediment
<i>Matrix Spike Recoveries</i>	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
<i>Duplicate RPDs</i>		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**SIM Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW11-011911
Page 1 of 1 SAMPLE

Lab Sample ID: SF26A

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/28/11

QC Report No: SF26-Floyd-Snyder

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Date Analyzed: 01/24/11 16:47

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	94.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW10-011911
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF26B

QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1072

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/19/11

Reported: 01/28/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 17:14

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	94.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW07-011911
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF26C


QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1073

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 01/19/11

Reported: 01/28/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 17:42

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	93.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW14-011911
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF26D

QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1074

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/19/11

Reported: 01/28/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 18:10

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	93.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-01-011911
Page 1 of 1 SAMPLE

Lab Sample ID: SF26E
LIMS ID: 11-1075
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/24/11 14:29

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	94.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-02-011911
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF26F
LIMS ID: 11-1076
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/24/11 14:56

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	94.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: **TB-03-011911**
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SF26G
 LIMS ID: 11-1077
 Matrix: Groundwater
 Data Release Authorized: *B*
 Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 01/19/11
 Date Received: 01/19/11

Instrument/Analyst: NT7/PKC
 Date Analyzed: 01/24/11 15:24

Sample Amount: 10.0 mL
 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	94.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-04-011911
Page 1 of 1 SAMPLE

Lab Sample ID: SF26H
LIMS ID: 11-1078
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/24/11 15:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	94.0%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-012411	120%	94.6%	0
LCS-012411	104%	96.7%	0
LCSD-012411	103%	96.1%	0
MW11-011911	109%	94.6%	0
MW10-011911	116%	94.0%	0
MW07-011911	117%	93.3%	0
MW14-011911	116%	93.4%	0
MW14-011911-MS	104%	95.9%	0
MW14-011911-MSD	107%	96.0%	0
TB-01-011911	110%	94.4%	0
TB-02-011911	112%	94.9%	0
TB-03-011911	114%	94.8%	0
TB-04-011911	113%	94.0%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene

(78-126) (80-129)
(80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-1071 to 11-1078

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW13-012011
Page 1 of 1 SAMPLE

Lab Sample ID: SF50A


QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1198

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 18:37

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	93.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-012011
Page 1 of 1 SAMPLE

Lab Sample ID: SF50B

QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1199

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 19:05

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	93.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW12-012011
Page 1 of 1 SAMPLE

Lab Sample ID: SF50C


QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1200

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 19:33

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	94.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW04-012011
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF50D


QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1201

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 20:00

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	94.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW17-012011
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SF50E

QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1202

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 13:07

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW03-012011
Page 1 of 1 SAMPLE

Lab Sample ID: SF50F
LIMS ID: 11-1203
Matrix: Water
Data Release Authorized: *AS*
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 13:32

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.6%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-012011
Page 1 of 1 TRIP BLANK

Lab Sample ID: SF50G

QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1204

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: *RB*

Date Sampled: 01/20/11

Reported: 01/28/11

Date Received: 01/20/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 16:19

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	95.1%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-012411	120%	94.6%	0
LCS-012411	104%	96.7%	0
LCSD-012411	103%	96.1%	0
MW13-012011	118%	93.5%	0
MW06-012011	118%	93.4%	0
MW12-012011	116%	94.0%	0
MW04-012011	111%	94.5%	0
MB-012611	98.2%	101%	0
LCS-012611	103%	101%	0
LCSD-012611	102%	102%	0
MW17-012011	96.7%	100%	0
MW03-012011	99.6%	100%	0
TB-012011	110%	95.1%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-1198 to 11-1204

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW14-011911
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: SF26D
LIMS ID: 11-1074
Matrix: Groundwater
Data Release Authorized: *AS*
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Instrument/Analyst MS: NT7/PKC
MSD: NT7/PKC
Date Analyzed MS: 01/24/11 20:28
MSD: 01/24/11 20:55

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	< 0.020 U	1.10	1.00	110%	1.14	1.00	114%	3.6%
cis-1,2-Dichloroethene	< 0.020 U	0.961	1.00	96.1%	1.03	1.00	103%	6.9%
trans-1,2-Dichloroethene	< 0.020 U	0.988	1.00	98.8%	1.04	1.00	104%	5.1%
Trichloroethene	< 0.020 U	1.12	1.00	112%	1.14	1.00	114%	1.8%
Tetrachloroethene	< 0.020 U	0.901	1.00	90.1%	0.945	1.00	94.5%	4.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW14-011911
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: SF26D


QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1074

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 01/19/11

Reported: 01/28/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 20:28

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	95.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW14-011911

Page 1 of 1

MATRIX SPIKE DUP

Lab Sample ID: SF26D

QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1074

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *JS*

Date Sampled: 01/19/11

Reported: 01/28/11

Date Received: 01/19/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 20:55

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	96.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-012411

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-012411

QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1071

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 01/28/11

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCS: NT7/PKC

LCS: 10.0 mL

Date Analyzed LCS: 01/24/11 12:30

Purge Volume LCS: 10.0 mL

LCS: 01/24/11 13:23

LCS: 10.0 mL

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCS	Recovery	
1,2-Dichloroethane	0.997	1.00	99.7%	1.04	1.00	104%	4.2%
cis-1,2-Dichloroethene	0.902	1.00	90.2%	0.943	1.00	94.3%	4.4%
trans-1,2-Dichloroethene	0.912	1.00	91.2%	0.944	1.00	94.4%	3.4%
Trichloroethene	1.04	1.00	104%	1.10	1.00	110%	5.6%
Tetrachloroethene	0.876	1.00	87.6%	0.901	1.00	90.1%	2.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	104%	103%
d8-Toluene	96.7%	96.1%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0124

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SF26
 Lab File ID: 0124007
 Date Analyzed: 01/24/11
 Instrument ID: NT7

Client: FLOYD-SNIDER
 Project: LORA LAKE APTS RI
 Lab Sample ID: MB0124
 Time Analyzed: 1258
 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	LCS0124	LCS0124	0124006	1230
02	LCSD0124	LCSD0124	0124008	1323
03	TB-01-011911	SF26E	0124010	1429
04	TB-02-011911	SF26F	0124011	1456
05	TB-03-011911	SF26G	0124012	1524
06	TB-04-011911	SF26H	0124013	1551
07	TB-012011	SF50G	0124014	1619
08	MW11-011911	SF26A	0124015	1647
09	MW10-011911	SF26B	0124016	1714
10	MW07-011911	SF26C	0124017	1742
11	MW14-011911	SF26D	0124018	1810
12	MW13-012011	SF50A	0124019	1837
13	MW06-012011	SF50B	0124020	1905
14	MW12-012011	SF50C	0124021	1933
15	MW04-012011	SF50D	0124022	2000
16	MW14-011911	SF26DMS	0124023	2028
17	MW14-011911	SF26DMSD	0124024	2055
18				
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30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-012411

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-012411


QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1071

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 01/28/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/24/11 12:58

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	94.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-15-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76A
LIMS ID: 11-1418
Matrix: Groundwater
Data Release Authorized: *AS*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 13:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	99.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-05-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76B
LIMS ID: 11-1419
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 14:24

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.8%
d8-Toluene	99.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-16-012111
Page 1 of 1 **SAMPLE**

Lab Sample ID: SF76C
LIMS ID: 11-1420
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 14:49

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-02-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76D
LIMS ID: 11-1421
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 15:15

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%
d8-Toluene	99.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-09-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76E

QC Report No: SF76-Floyd-Snider

LIMS ID: 11-1422

Project: Lora Lakes Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/21/11

Reported: 01/28/11

Date Received: 01/21/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 15:40

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.4%
d8-Toluene	98.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-08-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76F

QC Report No: SF76-Floyd-Snider

LIMS ID: 11-1423

Project: Lora Lakes Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 01/21/11

Reported: 01/28/11

Date Received: 01/21/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 16:06

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	99.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-01-012111
Page 1 of 1 SAMPLE

Lab Sample ID: SF76G
LIMS ID: 11-1424
Matrix: Groundwater
Data Release Authorized: *AB*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 16:32

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	0.037	
156-59-2	cis-1,2-Dichloroethene	0.020	0.26	
156-60-5	trans-1,2-Dichloroethene	0.020	0.059	
79-01-6	Trichloroethene	0.020	0.12	
127-18-4	Tetrachloroethene	0.020	0.025	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-01-012111-D
Page 1 of 1 SAMPLE

Lab Sample ID: SF76H

QC Report No: SF76-Floyd-Snider

LIMS ID: 11-1425

Project: Lora Lakes Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 01/21/11

Reported: 01/28/11

Date Received: 01/21/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 16:57

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	0.032	
156-59-2	cis-1,2-Dichloroethene	0.020	0.24	
156-60-5	trans-1,2-Dichloroethene	0.020	0.052	
79-01-6	Trichloroethene	0.020	0.12	
127-18-4	Tetrachloroethene	0.020	0.024	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.8%
d8-Toluene	99.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-012111
Page 1 of 1 Trip Blanks

Lab Sample ID: SF76I

QC Report No: SF76-Floyd-Snider

LIMS ID: 11-1426

Project: Lora Lakes Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 01/21/11

Reported: 01/28/11

Date Received: 01/21/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 11:50

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	99.1%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-012611	98.2%	101%	0
LCS-012611	103%	101%	0
LCSD-012611	102%	102%	0
MW-15-012111	100%	99.0%	0
MW-05-012111	95.8%	99.5%	0
MW-05-012111-MS	89.5%	101%	0
MW-05-012111-MSD	87.6%	101%	0
MW-16-012111	106%	100%	0
MW-02-012111	95.1%	99.4%	0
MW-09-012111	97.4%	98.9%	0
MW-08-012111	107%	99.1%	0
MW-01-012111	106%	100%	0
MW-01-012111-D	99.8%	99.9%	0
TB-012111	96.7%	99.1%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-1418 to 11-1426

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-05-012111
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: SF76B
LIMS ID: 11-1419
Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst MS: NT7/PKC
MSD: NT7/PKC
Date Analyzed MS: 01/26/11 17:23
MSD: 01/26/11 17:49

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	< 0.020 U	1.08	1.00	108%	1.09	1.00	109%	0.9%
cis-1,2-Dichloroethene	< 0.020 U	1.05	1.00	105%	1.04	1.00	104%	1.0%
trans-1,2-Dichloroethene	< 0.020 U	1.04	1.00	104%	1.03	1.00	103%	1.0%
Trichloroethene	< 0.020 U	1.01	1.00	101%	0.998	1.00	99.8%	1.2%
Tetrachloroethene	< 0.020 U	1.03	1.00	103%	1.02	1.00	102%	1.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-05-012111
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: SF76B
LIMS ID: 11-1419
Matrix: Groundwater
Data Release Authorized: *AS*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
Date Analyzed: 01/26/11 17:23

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.5%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-05-012111
 Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: SF76B
 LIMS ID: 11-1419
 Matrix: Groundwater
 Data Release Authorized: *AB*
 Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Instrument/Analyst: NT7/PKC
 Date Analyzed: 01/26/11 17:49

Sample Amount: 10.0 mL
 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.6%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-012611

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-012611

QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1202

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: *B*

Date Sampled: NA

Reported: 01/28/11

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCS: NT7/PKC

LCS: 10.0 mL

Date Analyzed LCS: 01/26/11 10:25

Purge Volume LCS: 10.0 mL

LCS: 01/26/11 10:49

LCS: 10.0 mL

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCS	Recovery	
1,2-Dichloroethane	1.05	1.00	105%	0.976	1.00	97.6%	7.3%
cis-1,2-Dichloroethene	1.01	1.00	101%	0.934	1.00	93.4%	7.8%
trans-1,2-Dichloroethene	1.00	1.00	100%	0.924	1.00	92.4%	7.9%
Trichloroethene	0.999	1.00	99.9%	0.928	1.00	92.8%	7.4%
Tetrachloroethene	1.03	1.00	103%	0.948	1.00	94.8%	8.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	103%	102%
d8-Toluene	101%	102%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0125

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SF76
 Lab File ID: 0126005
 Date Analyzed: 01/26/11
 Instrument ID: NT7

Client: FLOYD-SNIDER
 Project: LORA LAKE APTS RI
 Lab Sample ID: MB0125
 Time Analyzed: 1115
 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	LCS0125	LCS0125	0126003	1025
02	LCS0125	LCS0125	0126004	1049
03	TB-012111	SF76I	0126006	1150
04	MW17-012011	SF50E	0126009	1307
05	MW03-012011	SF50F	0126010	1332
06	MW-15-012111	SF76A	0126011	1358
07	MW-05-012111	SF76B	0126012	1424
08	MW-16-012111	SF76C	0126013	1449
09	MW-02-012111	SF76D	0126014	1515
10	MW-09-012111	SF76E	0126015	1540
11	MW-08-012111	SF76F	0126016	1606
12	MW-01-012111	SF76G	0126017	1632
13	MW-01-012111	SF76H	0126018	1657
14	MW-05-012111	SF76BMS	0126019	1723
15	MW-05-012111	SF76BMSD	0126020	1749
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-012611

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-012611

QC Report No: SF76-Floyd-Snider

LIMS ID: 11-1418

Project: Lora Lakes Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 01/28/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 01/26/11 11:15

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
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 µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.2%
d8-Toluene	101%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: SF26 Case No.: LORA LAKE APTS RI SDG No.: SF26

Lab File ID: 121310001 BFB Injection Date: 12/13/10

Instrument ID: NT7 BFB Injection Time: 0552

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	17.2
75	30.0 - 66.0% of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 101.0% of mass 95	65.7
175	4.0 - 9.0% of mass 174	4.5 (6.9)1
176	93.0 - 101.0% of mass 174	63.1 (96.0)1
177	5.0 - 9.0% of mass 176	4.3 (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	VSTD 20	00201213	121310008	12/13/10	0950
02	VSTD 50	00501213	121310009	12/13/10	1016
03	VSTD 100	01001213	121310010	12/13/10	1041
04	VSTD 500	05001213	121310011	12/13/10	1107
05	VSTD 1000	10001213	121310012	12/13/10	1133
06	VSTD 2000	20001213	121310013	12/13/10	1158
07	VSTD 4000	40001213	121310014	12/13/10	1224
08	ICV1000	ICV1213	121310015	12/13/10	1250
09					
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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 APTS RI SDG No.: SF76

Lab File ID: 0125001 BFB Injection Date: 01/25/11

Instrument ID: NT7 BFB Injection Time: 0945

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	19.2
75	30.0 - 66.0% of mass 95	50.4
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	0.4 (0.6)1
174	50.0 - 101.0% of mass 95	63.0
175	4.0 - 9.0% of mass 174	4.5 (7.1)1
176	93.0 - 101.0% of mass 174	61.7 (97.9)1
177	5.0 - 9.0% of mass 176	4.0 (6.5)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	VSTD500	05000125	0125005	01/25/11	1228
02	VSTD100	01000125	0125006	01/25/11	1255
03	VSTD50	00500125	0125007	01/25/11	1323
04	VSTD20	00200125	0125008	01/25/11	1350
05	VSTD4000	40000125	0125009	01/25/11	1415
06	VSTD2000	20000125	0125010	01/25/11	1442
07	VSTD1000	10000125	0125011	01/25/11	1510
08	ICV1000	ICV0125	0125012	01/25/11	1538
09					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF26

Project: LORA LAKE APTS RI

Instrument ID: NT7

Calibration Date: 12/13/10

LAB FILE ID: RF20: 121310008 RF50: 121310009 RF100: 121310010
RF500: 121310011 RF1000: 121310012

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	1.152	1.088	0.928	0.867	0.756
1,1-Dichloroethene	0.804	0.793	0.660	0.627	0.536
cis-1,2-dichloroethene	0.938	0.875	0.749	0.719	0.615
Benzene	2.743	2.557	2.054	1.980	1.679
Trichloroethene	0.680	0.592	0.481	0.460	0.398
Tetrachloroethene	0.567	0.507	0.428	0.413	0.351
1,1,2,2-Tetrachloroethane	0.373	0.334	0.307	0.305	0.275
Trans-1,2-Dichloroethene	0.911	0.898	0.716	0.695	0.589
1,2-Dichloroethane	1.042	0.981	0.836	0.859	0.733
d4-1,2-Dichloroethane	0.488	0.478	0.492	0.447	0.443
d8-Toluene	1.172	1.179	1.169	1.177	1.186

FORM VI VOA

SF26: 00074

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF26

Project: LORA LAKE APTS RI

Instrument ID: NT7

Calibration Date: 12/13/10

LAB FILE ID: RF2000: 121310013RF4000: 121310014

COMPOUND	RF2000	RF4000
Vinyl Chloride	0.786	0.761
1,1-Dichloroethene	0.558	0.542
cis-1,2-dichloroethene	0.639	0.627
Benzene	1.744	1.685
Trichloroethene	0.407	0.400
Tetrachloroethene	0.350	0.359
1,1,2,2-Tetrachloroethane	0.291	0.286
Trans-1,2-Dichloroethene	0.618	0.600
1,2-Dichloroethane	0.755	0.740
d4-1,2-Dichloroethane	0.446	0.438
d8-Toluene	1.186	1.188

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF26

Project: LORA LAKE APTS RI

Instrument ID: NT7

Calibration Date: 12/13/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Vinyl Chloride	AVRG	0.906	17.7
1,1-Dichloroethene	AVRG	0.646	17.6
cis-1,2-dichloroethene	AVRG	0.737	17.2
Benzene	LINR		0.9991
Trichloroethene	LINR		0.9994
Tetrachloroethene	AVRG	0.425	19.8
1,1,2,2-Tetrachloroethane	AVRG	0.310	10.9
Trans-1,2-Dichloroethene	AVRG	0.718	18.9
1,2-Dichloroethane	AVRG	0.849	14.3
d4-1,2-Dichloroethane	AVRG	0.462	5.0
d8-Toluene	AVRG	1.180	0.6

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS RI

Instrument ID: NT7

Calibration Date: 01/25/11

LAB FILE ID: RF20: 0125008

RF50: 0125007

RF100: 0125006

RF500: 0125005

RF1000: 0125011

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	0.751	0.702	0.743	0.763	0.823
1,1-Dichloroethene	0.598	0.537	0.575	0.581	0.584
cis-1,2-dichloroethene	0.670	0.607	0.652	0.658	0.671
Benzene	2.065	1.802	1.885	1.807	1.820
Trichloroethene	0.430	0.396	0.417	0.412	0.408
Tetrachloroethene	0.356	0.344	0.362	0.366	0.358
1,1,2,2-Tetrachloroethane	0.212	0.196	0.223	0.245	0.261
Trans-1,2-Dichloroethene	0.645	0.602	0.649	0.640	0.650
1,2-Dichloroethane	0.759	0.709	0.780	0.828	0.847
d4-1,2-Dichloroethane	0.537	0.538	0.558	0.551	0.550
d8-Toluene	1.118	1.106	1.119	1.091	1.129

FORM VI VOA

SF25: 00077

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS RI

Instrument ID: NT7

Calibration Date: 01/25/11

LAB FILE ID: RF2000: 0125010 RF4000: 0125009

COMPOUND	TYPE	RF	CURVE OR R ²	AVE	%RSD
Vinyl Chloride	0.864	0.812	AVRG	0.780	7.1
1,1-Dichloroethene	0.609	0.568	AVRG	0.579	4.0
cis-1,2-dichloroethene	0.692	0.648	AVRG	0.657	4.0
Benzene	1.923	1.790	AVRG	1.870	5.3
Trichloroethene	0.434	0.398	AVRG	0.414	3.5
Tetrachloroethene	0.374	0.355	AVRG	0.359	2.6
1,1,2,2-Tetrachloroethane	0.295	0.281	AVRG	0.245	14.9
Trans-1,2-Dichloroethene	0.675	0.630	AVRG	0.641	3.5
1,2-Dichloroethane	0.862	0.812	AVRG	0.800	6.7
d4-1,2-Dichloroethane	0.465	0.541	AVRG	0.534	5.9
d8-Toluene	1.145	1.138	AVRG	1.121	1.6

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SF26
 Instrument ID: NT7
 Init. Calib. Date: 12/13/10

Client: FLOYD-SNIDER
 Project: LORA LAKE APTS RI
 Cont. Calib. Date: 01/24/11
 Cont. Calib. Time: 1202

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
Vinyl Chloride	0.905	0.864	0.010	AVRG	-4.5
1,1-Dichloroethene	0.646	0.556	0.010	AVRG	-13.9
cis-1,2-dichloroethene	0.737	0.625	0.010	AVRG	-15.2
Benzene	1000.0	991.50	0.010	LINR	-0.8
Trichloroethene	1000.0	955.59	0.010	LINR	-4.4
Tetrachloroethene	0.425	0.342	0.010	AVRG	-19.5
1,1,2,2-Tetrachloroethane	0.310	0.257	0.300	AVRG	-17.1 *
Trans-1,2-Dichloroethene	0.718	0.611	0.010	AVRG	-14.9
1,2-Dichloroethane	0.849	0.793	0.010	AVRG	-6.6
d4-1,2-Dichloroethane	0.462	0.485	0.010	AVRG	5.0
d8-Toluene	1.180	1.114	0.010	AVRG	-5.6

<- 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: SF76

Project: LORA LAKE APTS RI

Instrument ID: NT7

Cont. Calib. Date: 01/26/11

Init. Calib. Date: 01/25/11

Cont. Calib. Time: 0958

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	0.579	0.549	0.010	AVRG	-5.2
Trans-1,2-Dichloroethene	0.642	0.609	0.010	AVRG	-5.1
cis-1,2-dichloroethene	0.657	0.620	0.010	AVRG	-5.6
Benzene	1.870	1.709	0.010	AVRG	-8.6
Vinyl Chloride	0.780	0.724	0.010	AVRG	-7.2
Tetrachloroethene	0.359	0.345	0.010	AVRG	-3.9
1,1,2,2-Tetrachloroethane	0.245	0.248	0.300	AVRG	1.2
1,2-Dichloroethane	0.800	0.782	0.010	AVRG	-2.2
Trichloroethene	0.414	0.389	0.010	AVRG	-6.0
=====	=====	=====	=====	=====	=====
d8-Toluene	1.121	1.112	0.010	AVRG	-0.8
d4-1,2-Dichloroethane	0.534	0.552	0.010	AVRG	3.4

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

SF26: 00080

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF26

Project: LORA LAKE APTS RI

Ical Midpoint ID: 121310011

Ical Date: 12/13/10

Instrument ID: NT7

Project Run Date: 12/13/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	345239	5.31	523532	5.76		
UPPER LIMIT	690478	5.81	1047064	6.26		
LOWER LIMIT	172620	4.81	261766	5.26		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV1000	335543	5.32	513107	5.76		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
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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.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS RI

Ical Midpoint ID: 0125005

Ical Date: 01/25/11

Instrument ID: NT7

Project Run Date: 01/25/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
ICAL MIDPT	335674	5.32	522688	5.74		
UPPER LIMIT	671348	5.82	1045376	6.24		
LOWER LIMIT	167837	4.82	261344	5.24		
Sample ID						
01 ICV1000	326190	5.32	502883	5.75		
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.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SF26
Ical Midpoint ID: 121310011
Instrument ID: NT7

Client: FLOYD-SNIDER
Project: LORA LAKE APTS RI
Ical Date: 12/13/10
Project Run Date: 01/24/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
ICAL MIDPT	345239	5.31	523532	5.76		
UPPER LIMIT	690478	5.81	1047064	6.26		
LOWER LIMIT	172620	4.81	261766	5.26		
Sample ID						
01 LCS0124	340276	5.32	519512	5.75		
02 MB0124	331491	5.32	511678	5.76		
03 LCSD0124	338738	5.31	516977	5.74		
04 TB-01-011911	363614	5.32	561956	5.74		
05 TB-02-011911	350061	5.32	539818	5.75		
06 TB-03-011911	345845	5.32	530278	5.74		
07 TB-04-011911	344020	5.32	526787	5.75		
08 TB-012011	359820	5.31	527132	5.76		
09 MW11-011911	356468	5.32	524390	5.75		
10 MW10-011911	329375	5.31	512900	5.76		
11 MW07-011911	333094	5.32	497283	5.75		
12 MW14-011911	340121	5.32	496858	5.76		
13 MW13-012011	326519	5.32	495133	5.75		
14 MW06-012011	311437	5.31	486890	5.76		
15 MW12-012011	302810	5.32	473882	5.75		
16 MW04-012011	315274	5.32	472815	5.76		
17 MW14-011911	303416	5.32	474632	5.76		
18 MW14-011911	294827	5.32	469035	5.75		
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.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS RI

Ical Midpoint ID: 0125005

Ical Date: 01/25/11

Instrument ID: NT7

Project Run Date: 01/26/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	335674	5.32	522688	5.74		
UPPER LIMIT	671348	5.82	1045376	6.24		
LOWER LIMIT	167837	4.82	261344	5.24		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0125	334906	5.32	520157	5.74		
02 LCS0125	328256	5.31	507573	5.75		
03 MB0125	331387	5.32	507370	5.76		
04 TB-012111	333462	5.32	510332	5.75		
05 MW17-012011	338088	5.32	502715	5.75		
06 MW03-012011	325971	5.31	501294	5.76		
07 MW-15-012111	324490	5.32	501355	5.76		
08 MW-05-012111	335105	5.32	497970	5.75		
09 MW-16-012111	326191	5.31	504266	5.74		
10 MW-02-012111	340001	5.32	499176	5.76		
11 MW-09-012111	333391	5.32	498239	5.75		
12 MW-08-012111	323026	5.32	497240	5.76		
13 MW-01-012111	324999	5.32	509077	5.74		
14 MW-01-012111	344757	5.32	538999	5.75		
15 MW-05-012111	337851	5.32	530477	5.75		
16 MW-05-012111	330412	5.32	516730	5.76		
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 PAH Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW11-011911
SAMPLE

Lab Sample ID: SF26A
LIMS ID: 11-1071
Matrix: Groundwater
Data Release Authorized: *WWW*
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Date Extracted: 01/25/11
Date Analyzed: 01/26/11 22:04
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 69.3%
d14-Dibenzo(a,h)anthracene 86.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW10-011911

SAMPLE

Lab Sample ID: SF26B

LIMS ID: 11-1072

Matrix: Groundwater

Data Release Authorized: *WVW*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/25/11

Date Analyzed: 01/26/11 22:28

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.7%
d14-Dibenzo(a,h)anthracene 85.7%

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PNA's by Low Level SW8270D-SIM GC/MS

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Sample ID: MW07-011911

SAMPLE

Lab Sample ID: SF26C

LIMS ID: 11-1073

Matrix: Groundwater

Data Release Authorized: *MMW*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/25/11

Date Analyzed: 01/26/11 22:52

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 62.7%
d14-Dibenzo(a,h)anthracene 83.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW14-011911
SAMPLE

Lab Sample ID: SF26D
LIMS ID: 11-1074
Matrix: Groundwater
Data Release Authorized: *MMW*
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Date Extracted: 01/25/11
Date Analyzed: 01/26/11 23:15
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 74.0%
d14-Dibenzo(a,h)anthracene 87.7%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-012511	81.3%	76.3%	0
LCS-012511	81.3%	85.7%	0
LCSD-012511	73.0%	81.7%	0
MW11-011911	69.3%	86.3%	0
MW10-011911	73.7%	85.7%	0
MW07-011911	62.7%	83.7%	0
MW14-011911	74.0%	87.7%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (42-100) (31-109)
(DBA) = d14-Dibenzo(a,h)anthracene (40-125) (10-133)

Prep Method: SW3510C
Log Number Range: 11-1071 to 11-1074

ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW13-012011
 SAMPLE

Lab Sample ID: SF50A
 LIMS ID: 11-1198
 Matrix: Water
 Data Release Authorized: *mm*
 Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 01/20/11
 Date Received: 01/20/11

Date Extracted: 01/25/11
 Date Analyzed: 01/27/11 11:08
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 75.0%
 d14-Dibenzo(a,h)anthracene 81.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW06-012011
SAMPLE

Lab Sample ID: SF50B
LIMS ID: 11-1199
Matrix: Water
Data Release Authorized: *MW*
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 12:18
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	79.0%
d14-Dibenzo(a,h)anthracene	86.0%

ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW12-012011
 SAMPLE

Lab Sample ID: SF50C
 LIMS ID: 11-1200
 Matrix: Water
 Data Release Authorized: *W/W*
 Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 01/20/11
 Date Received: 01/20/11

Date Extracted: 01/25/11
 Date Analyzed: 01/27/11 12:42
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo (a) pyrene	0.010	< 0.010 U
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	< 0.010 U
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 75.7%
 d14-Dibenzo (a,h) anthracene 95.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

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Sample ID: MW04-012011

SAMPLE

Lab Sample ID: SF50D

LIMS ID: 11-1201

Matrix: Water

Data Release Authorized: *MW*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/25/11

Date Analyzed: 01/27/11 13:06

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 67.3%
d14-Dibenzo(a,h)anthracene 86.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

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Sample ID: MW17-012011

SAMPLE

Lab Sample ID: SF50E

LIMS ID: 11-1202

Matrix: Water

Data Release Authorized: *W*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/25/11

Date Analyzed: 01/27/11 13:29

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo (a) pyrene	0.010	< 0.010 U
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	< 0.010 U
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo (a,h) anthracene 60.3%



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 PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW03-012011
 SAMPLE

Lab Sample ID: SF50F
 LIMS ID: 11-1203
 Matrix: Water
 Data Release Authorized: *WJW*
 Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 01/20/11
 Date Received: 01/20/11

Date Extracted: 01/25/11
 Date Analyzed: 01/27/11 13:53
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.0%
 d14-Dibenzo(a,h)anthracene 67.0%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-012511	81.3%	76.3%	0
LCS-012511	81.3%	85.7%	0
LCSD-012511	73.0%	81.7%	0
MW13-012011	75.0%	81.3%	0
MW13-012011 MS	72.0%	90.3%	0
MW13-012011 MSD	77.3%	95.3%	0
MW06-012011	79.0%	86.0%	0
MW12-012011	75.7%	95.7%	0
MW04-012011	67.3%	86.7%	0
MW17-012011	68.3%	60.3%	0
MW03-012011	66.0%	67.0%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(MNP) = d10-2-Methylnaphthalene	(42-100)	(31-109)
(DBA) = d14-Dibenzo(a,h)anthracene	(40-125)	(10-133)

Prep Method: SW3510C
Log Number Range: 11-1198 to 11-1203

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

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Sample ID: MW-15-012111

SAMPLE

Lab Sample ID: SF76A

LIMS ID: 11-1418

Matrix: Groundwater

Data Release Authorized: *WV*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/25/11

Date Analyzed: 01/27/11 14:16

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.7%
d14-Dibenzo(a,h)anthracene 65.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-05-012111
SAMPLE

Lab Sample ID: SF76B
LIMS ID: 11-1419
Matrix: Groundwater
Data Release Authorized: *TW*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 14:40
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 71.0%
d14-Dibenzo(a,h)anthracene 73.7%

ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-16-012111
 SAMPLE

Lab Sample ID: SF76C
 LIMS ID: 11-1420
 Matrix: Groundwater
 Data Release Authorized: *MW*
 Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 Event: POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Date Extracted: 01/25/11
 Date Analyzed: 01/27/11 15:04
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	61.3%

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PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-02-012111
SAMPLE

Lab Sample ID: SF76D
LIMS ID: 11-1421
Matrix: Groundwater
Data Release Authorized: *MMW*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 15:27
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo (a) pyrene	0.010	< 0.010 U
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	< 0.010 U
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.0%
d14-Dibenzo (a,h) anthracene	72.0%

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 PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-09-012111
 SAMPLE

Lab Sample ID: SF76E
 LIMS ID: 11-1422
 Matrix: Groundwater
 Data Release Authorized: *MMW*
 Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 Event: POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Date Extracted: 01/25/11
 Date Analyzed: 01/27/11 15:51
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%
 d14-Dibenzo(a,h)anthracene 73.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

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Sample ID: MW-08-012111

SAMPLE

Lab Sample ID: SF76F

LIMS ID: 11-1423

Matrix: Groundwater

Data Release Authorized: *YWW*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/25/11

Date Analyzed: 01/27/11 16:15

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo(a,h)anthracene 77.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-01-012111
SAMPLE

Lab Sample ID: SF76G
LIMS ID: 11-1424
Matrix: Groundwater
Data Release Authorized: *WW*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 16:38
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	0.017
218-01-9	Chrysene	0.010	0.026 Q
50-32-8	Benzo (a) pyrene	0.010	0.021
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	0.012
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	0.031

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.3%
d14-Dibenzo(a,h)anthracene 87.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MW-01-012111-D
SAMPLE

Lab Sample ID: SF76H
LIMS ID: 11-1425
Matrix: Groundwater
Data Release Authorized: *YWW*
Reported: 01/28/11

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 17:02
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	0.010 Q
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	0.012

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 51.0%
d14-Dibenzo(a,h)anthracene 84.7%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-012511	81.3%	76.3%	0
LCS-012511	81.3%	85.7%	0
LCSD-012511	73.0%	81.7%	0
MW-15-012111	66.7%	65.7%	0
MW-05-012111	71.0%	73.7%	0
MW-16-012111	65.7%	61.3%	0
MW-02-012111	67.0%	72.0%	0
MW-09-012111	64.7%	73.7%	0
MW-08-012111	68.3%	77.0%	0
MW-01-012111	53.3%	87.3%	0
MW-01-012111-D	51.0%	84.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(42-100)	(31-109)
(DBA) = d14-Dibenzo(a,h)anthracene	(40-125)	(10-133)

Prep Method: SW3510C
Log Number Range: 11-1418 to 11-1425

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW13-012011
MATRIX SPIKE

Lab Sample ID: SF50A
LIMS ID: 11-1198
Matrix: Water
Data Release Authorized: *MW*
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted MS/MSD: 01/25/11
Date Analyzed MS: 01/27/11 11:31
MSD: 01/27/11 11:55
Instrument/Analyst MS: NT11/YZ
MSD: NT11/YZ

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike		MSD	Spike		MSD	RPD
			Added-MS	Recovery		Added-MSD	Recovery		
Benzo(a)anthracene	< 0.0100 U	0.302	0.300	101%	0.325	0.300	108%	7.3%	
Chrysene	< 0.0100 U	0.223 Q	0.300	74.3%	0.232 Q	0.300	77.3%	4.0%	
Benzo(a)pyrene	< 0.0100 U	0.237	0.300	79.0%	0.249	0.300	83.0%	4.9%	
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.246	0.300	82.0%	0.258	0.300	86.0%	4.8%	
Dibenz(a,h)anthracene	< 0.0100 U	0.258	0.300	86.0%	0.271	0.300	90.3%	4.9%	
Total Benzofluoranthenes	< 0.0100 U	0.528	0.600	88.0%	0.549	0.600	91.5%	3.9%	

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW13-012011
MATRIX SPIKE

Lab Sample ID: SF50A
LIMS ID: 11-1198
Matrix: Water
Data Release Authorized: *NW*
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 11:31
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00


CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 72.0%
d14-Dibenzo(a,h)anthracene 90.3%

Sample ID: MW13-012011
MATRIX SPIKE DUPLICATE

Lab Sample ID: SF50A
LIMS ID: 11-1198
Matrix: Water
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted: 01/25/11
Date Analyzed: 01/27/11 11:55
Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo (a) pyrene	0.010	---
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	---
53-70-3	Dibenz (a,h) anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 77.3%
d14-Dibenzo (a,h) anthracene 95.3%



ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LCS-012511
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-012511
 LIMS ID: 11-1071
 Matrix: Groundwater
 Data Release Authorized: *MMW*
 Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: NA
 Date Received: NA

Date Extracted LCS/LCSD: 01/25/11
 Date Analyzed LCS: 01/26/11 20:07
 LCSD: 01/26/11 20:30
 Instrument/Analyst LCS: NT11/YZ
 LCSD: NT11/YZ

Sample Amount LCS: 500 mL
 LCSD: 500 mL
 Final Extract Volume LCS: 0.50 mL
 LCSD: 0.50 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00

Analyte	Spike		LCS		Spike		LCSD	
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	RPD	
Benzo(a)anthracene	0.302	0.300	101%	0.295	0.300	98.3%	2.3%	
Chrysene	0.223 Q	0.300	74.3%	0.218 Q	0.300	72.7%	2.3%	
Benzo(a)pyrene	0.220	0.300	73.3%	0.219	0.300	73.0%	0.5%	
Indeno(1,2,3-cd)pyrene	0.207	0.300	69.0%	0.209	0.300	69.7%	1.0%	
Dibenz(a,h)anthracene	0.228	0.300	76.0%	0.230	0.300	76.7%	0.9%	
Total Benzofluoranthenes	0.495	0.600	82.5%	0.490	0.600	81.7%	1.0%	

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	81.3%	73.0%
d14-Dibenzo(a,h)anthracene	85.7%	81.7%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SF78MBW1

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SF76
 Lab File ID: SF78MB
 Instrument ID: NT11
 Matrix: LIQUID

Client: THE BOEING COMPANY
 Project: NBF STORMWATER
 Date Extracted: 01/25/11
 Date Analyzed: 01/26/11
 Time Analyzed: 1943

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SF78LCSW1	SF78SB	01/26/11
02	SF78LCSDW1	SF78SBD	01/26/11
03	MW11-011911	SF26A	01/26/11
04	MW10-011911	SF26B	01/26/11
05	MW07-011911	SF26C	01/26/11
06	MW14-011911	SF26D	01/26/11
07	MW13-012011	SF50A	01/27/11
08	MW13-012011 MS	SF50AMS	01/27/11
09	MW13-012011 MSD	SF50AMSD	01/27/11
10	MW06-012011	SF50B	01/27/11
11	MW12-012011	SF50C	01/27/11
12	MW04-012011	SF50D	01/27/11
13	MW17-012011	SF50E	01/27/11
14	MW03-012011	SF50F	01/27/11
15	MW-15-012111	SF76A	01/27/11
16	MW-05-012111	SF76B	01/27/11
17	MW-16-012111	SF76C	01/27/11
18	MW-02-012111	SF76D	01/27/11
19	MW-09-012111	SF76E	01/27/11
20	MW-08-012111	SF76F	01/27/11
21	MW-01-012111	SF76G	01/27/11
22	MW-01-012111-D	SF76H	01/27/11
23			
24			
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28			
29			
30			

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MB-012511

METHOD BLANK

Lab Sample ID: MB-012511

LIMS ID: 11-1198

Matrix: Water

Data Release Authorized: *MMW*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Extracted: 01/25/11

Date Analyzed: 01/26/11 19:43

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo (a) pyrene	0.010	< 0.010 U
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	< 0.010 U
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 81.3%

d14-Dibenzo (a,h) anthracene 76.3%

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS

DFTPP Injection Date: 01/21/11

DFTPP Injection Time: 1516

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	25.8
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	10.0 - 80.0% of mass 198	60.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	23.6
365	Greater than 1.0% of mass 198	4.08
441	0.0 - 24.0% of mass 442	15.0 (15.7)2
442	50.0 - 200.0% of mass 198	95.3
443	15.0 - 24.0% of mass 442	18.6 (19.5)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC0121A	IC0121A	01/21/11	1530
02	IC0121B	IC0121B	01/21/11	1554
03	IC0121C	IC0121C	01/21/11	1617
04	IC0121D	IC0121D	01/21/11	1641
05	IC0121E	IC0121E	01/21/11	1704
06	IC0121F	IC0121F	01/21/11	1728
07				
08				
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS

DFTPP Injection Date: 01/26/11

DFTPP Injection Time: 1328

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.0
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	48.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1.0% of mass 198	2.94
441	0.0 - 24.0% of mass 442	11.7 (15.1)2
442	50.0 - 200.0% of mass 198	77.4
443	15.0 - 24.0% of mass 442	15.0 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0126	CC0126	01/26/11	1342
02	SF78MBW1	SF78MBW1	SF78MB	01/26/11	1943
03	SF78LCSW1	SF78LCSW1	SF78SB	01/26/11	2007
04	SF78LCSDW1	SF78LCSDW1	SF78SBD	01/26/11	2030
05	MW11-011911	SF26A	SF26A	01/26/11	2204
06	MW10-011911	SF26B	SF26B	01/26/11	2228
07	MW07-011911	SF26C	SF26C	01/26/11	2252
08	MW14-011911	SF26D	SF26D	01/26/11	2315
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS

DFTPP Injection Date: 01/27/11

DFTPP Injection Time: 1007

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	47.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1.0% of mass 198	3.01
441	0.0 - 24.0% of mass 442	11.9 (15.2)2
442	50.0 - 200.0% of mass 198	78.2
443	15.0 - 24.0% of mass 442	15.2 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0127	01/27/11	1021
02	MW13-012011	SF50A	01/27/11	1108
03	MW13-012011 MS	SF50AMS	01/27/11	1131
04	MW13-012011 MSD	SF50AMSD	01/27/11	1155
05	MW06-012011	SF50B	01/27/11	1218
06	MW12-012011	SF50C	01/27/11	1242
07	MW04-012011	SF50D	01/27/11	1306
08	MW17-012011	SF50E	01/27/11	1329
09	MW03-012011	SF50F	01/27/11	1353
10	MW-15-012111	SF76A	01/27/11	1416
11	MW-05-012111	SF76B	01/27/11	1440
12	MW-16-012111	SF76C	01/27/11	1504
13	MW-02-012111	SF76D	01/27/11	1527
14	MW-09-012111	SF76E	01/27/11	1551
15	MW-08-012111	SF76F	01/27/11	1615
16	MW-01-012111	SF76G	01/27/11	1638
17	MW-01-012111-D	SF76H	01/27/11	1702
18				
19				
20				
21				
22				

7B
SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SF76
Instrument ID: NT11
Init. Calib. Date: 01/21/11

Client: FLOYD-SNIDER
Project: LORA LAKE APTS
Cont. Calib. Date: 01/26/11
Cont. Calib. Time: 1342

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Naphthalene	0.810	0.794	0.700	AVRG	-2.0
2-Methylnaphthalene	0.464	0.492	0.400	AVRG	6.0
Acenaphthylene	1.296	1.287	0.900	AVRG	-0.7
Acenaphthene	0.886	0.847	0.900	AVRG	-4.4
Dibenzofuran	1.313	1.186	0.800	AVRG	-9.7
Fluorene	0.882	0.920	0.900	AVRG	4.3
Phenanthrene	0.807	0.820	0.700	AVRG	1.6
Anthracene	0.778	0.786	0.700	AVRG	1.0
Fluoranthene	0.761	0.845	0.600	AVRG	11.0
Pyrene	1.238	1.014	0.600	AVRG	-18.1
Benzo (a) anthracene	0.806	0.816	0.800	AVRG	1.2
Chrysene	1.175	0.909	0.700	AVRG	-22.6
Benzo (a) pyrene	250	224	0.700	2ORDR	-10.4
Indeno (1,2,3-cd) pyrene	1.135	1.013	0.500	AVRG	-10.7
Dibenzo (a,h) anthracene	0.840	0.785	0.400	AVRG	-6.5
Benzo (g,h,i) perylene	1.062	0.885	0.500	AVRG	-16.7
1-Methylnaphthalene	0.469	0.482	0.010	AVRG	2.8
Total Benzofluoranthenes	1.143	1.019	0.010	AVRG	-10.8
=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.480	0.446	0.010	AVRG	-7.1
Dibenzo (a,h) anthracene-d14	0.706	0.666	0.010	AVRG	-5.7

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7B
SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS

Instrument ID: NT11

Cont. Calib. Date: 01/27/11

Init. Calib. Date: 01/21/11

Cont. Calib. Time: 1021

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Naphthalene	0.810	0.797	0.700	AVRG	-1.6
2-Methylnaphthalene	0.464	0.500	0.400	AVRG	7.8
Acenaphthylene	1.296	1.298	0.900	AVRG	0.2
Acenaphthene	0.886	0.849	0.900	AVRG	-4.2
Dibenzofuran	1.313	1.190	0.800	AVRG	-9.4
Fluorene	0.882	0.923	0.900	AVRG	4.6
Phenanthrene	0.807	0.830	0.700	AVRG	2.8
Anthracene	0.778	0.819	0.700	AVRG	5.3
Fluoranthene	0.761	0.852	0.600	AVRG	12.0
Pyrene	1.238	1.013	0.600	AVRG	-18.2
Benzo (a) anthracene	0.806	0.840	0.800	AVRG	4.2
Chrysene	1.175	0.894	0.700	AVRG	-23.9
Benzo (a) pyrene	250	227	0.700	2ORDR	-9.2
Indeno (1,2,3-cd) pyrene	1.135	1.049	0.500	AVRG	-7.6
Dibenzo (a,h) anthracene	0.840	0.810	0.400	AVRG	-3.6
Benzo (g,h,i) perylene	1.062	0.914	0.500	AVRG	-13.9
1-Methylnaphthalene	0.469	0.492	0.010	AVRG	4.9
Total Benzofluoranthenes	1.143	1.045	0.010	AVRG	-8.6
=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.480	0.457	0.010	AVRG	-4.8
Dibenzo (a,h) anthracene-d14	0.706	0.694	0.010	AVRG	-1.7

<-

<- Exceeds QC limit of 20% D
* RF less than minimum RF

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SF76
Ical Midpoint ID: IC0121A
Instrument ID: NT11

Client: FLOYD-SNIDER
Project: LORA LAKE APTS
Ical Date: 01/21/11
Cont. Cal Date: 01/26/11

	ISI (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	342549	5.71	185015	7.87	320966	9.69
UPPER LIMIT	685098		370030		641932	
LOWER LIMIT	171274		92508		160483	
=====	=====	=====	=====	=====	=====	=====
CCAL	321336	5.70	181212	7.85	304249	9.68
UPPER LIMIT		6.20		8.35		10.18
LOWER LIMIT		5.20		7.35		9.18
01 SF78MBW1	308167	5.70	183917	7.85	311544	9.68
02 SF78LCSW1	322220	5.70	198845	7.85	332522	9.68
03 SF78LCSDW1	339914	5.70	202787	7.85	343449	9.68
04 MW11-011911	343112	5.70	203272	7.85	353096	9.68
05 MW10-011911	332728	5.70	201655	7.85	344316	9.68
06 MW07-011911	337701	5.70	202747	7.85	345404	9.68
07 MW14-011911	331992	5.70	195883	7.85	337087	9.68
08						
09						
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11						
12						
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14						
15						
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18						
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20						
21						
22						
23						
24						
25						

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

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 Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS

Ical Midpoint ID: IC0121A

Ical Date: 01/21/11

Instrument ID: NT11

Cont. Cal Date: 01/26/11

	IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	212759	12.98	156605	14.70		
UPPER LIMIT	425518		313210			
LOWER LIMIT	106380		78302			
=====	=====	=====	=====	=====	=====	=====
CCAL	271766	12.96	222565	14.69		
UPPER LIMIT		13.46		15.19		
LOWER LIMIT		12.46		14.19		
01 SF78MBW1	257186	12.96	205590	14.68		
02 SF78LCSW1	286639	12.96	231010	14.68		
03 SF78LCSDW1	293666	12.96	237993	14.68		
04 MW11-011911	294024	12.96	235449	14.68		
05 MW10-011911	286670	12.96	229407	14.68		
06 MW07-011911	286986	12.96	228324	14.68		
07 MW14-011911	276037	12.96	225870	14.68		
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4 = Chrysene-d12
IS5 = Perylene-d12

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 Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: SF76

Project: LORA LAKE APTS

Ical Midpoint ID: IC0121A

Ical Date: 01/21/11

Instrument ID: NT11

Cont. Cal Date: 01/27/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	342549	5.71	185015	7.87	320966	9.69
UPPER LIMIT	685098		370030		641932	
LOWER LIMIT	171274		92508		160483	
=====	=====	=====	=====	=====	=====	=====
CCAL	326625	5.70	186528	7.85	316883	9.68
UPPER LIMIT		6.20		8.35		10.18
LOWER LIMIT		5.20		7.35		9.18
01 MW13-012011	330375	5.71	195911	7.87	346332	9.68
02 MW13-012011	341912	5.70	205762	7.85	357835	9.68
03 MW13-012011	341026	5.70	203765	7.85	354040	9.68
04 MW06-012011	350144	5.70	210928	7.85	372652	9.68
05 MW12-012011	321777	5.70	190371	7.85	332177	9.68
06 MW04-012011	338614	5.70	200630	7.85	347312	9.68
07 MW17-012011	344494	5.70	206920	7.85	357312	9.68
08 MW03-012011	344785	5.70	200864	7.85	353776	9.68
09 MW-15-012111	341239	5.70	204859	7.85	348754	9.68
10 MW-05-012111	340308	5.70	199238	7.85	347832	9.68
11 MW-16-012111	355461	5.70	210484	7.85	368465	9.68
12 MW-02-012111	355932	5.70	211435	7.85	370203	9.68
13 MW-09-012111	359076	5.70	212482	7.85	367347	9.68
14 MW-08-012111	360926	5.70	213888	7.85	374881	9.68
15 MW-01-012111	528295	5.70	235790	7.85	383127	9.68
16 MW-01-012111	549847	5.70	241841	7.85	392678	9.68
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

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 Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SF76
Ical Midpoint ID: IC0121A
Instrument ID: NT11

Client: FLOYD-SNIDER
Project: LORA LAKE APTS
Ical Date: 01/21/11
Cont. Cal Date: 01/27/11

	IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	212759	12.98	156605	14.70		
UPPER LIMIT	425518		313210			
LOWER LIMIT	106380		78302			
=====	=====	=====	=====	=====	=====	=====
CCAL	286151	12.96	236936	14.69		
UPPER LIMIT		13.46		15.19		
LOWER LIMIT		12.46		14.19		
01 MW13-012011	281716	12.98	226330	14.69		
02 MW13-012011	318879	12.96	253389	14.68		
03 MW13-012011	310350	12.96	247352	14.68		
04 MW06-012011	303372	12.96	236491	14.68		
05 MW12-012011	270829	12.96	218045	14.68		
06 MW04-012011	290409	12.96	234523	14.68		
07 MW17-012011	290587	12.96	237010	14.68		
08 MW03-012011	290521	12.96	233157	14.68		
09 MW-15-012111	278363	12.96	233497	14.69		
10 MW-05-012111	294498	12.96	237550	14.68		
11 MW-16-012111	305359	12.96	247295	14.68		
12 MW-02-012111	300271	12.96	245242	14.68		
13 MW-09-012111	300226	12.96	240991	14.68		
14 MW-08-012111	302506	12.96	245786	14.68		
15 MW-01-012111	321480	12.96	267521	14.69		
16 MW-01-012111	337257	12.96	276909	14.69		
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4 = Chrysene-d12
IS5 = Perylene-d12

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 Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

**PCP/Chlorophenols Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW11-011911

SAMPLE

Lab Sample ID: SF26A

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 00:05

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.2%
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Sample ID: MW10-011911
SAMPLE

Lab Sample ID: SF26B
LIMS ID: 11-1072
Matrix: Groundwater
Data Release Authorized:
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Date Extracted: 01/24/11
Date Analyzed: 01/27/11 00:41
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	76.4%	

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW07-011911

SAMPLE

Lab Sample ID: SF26C

LIMS ID: 11-1073

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 01:17

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	80.0%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW14-011911

SAMPLE

Lab Sample ID: SF26D

LIMS ID: 11-1074

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 01:53

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.4%
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SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-012411	74.0%	0
LCS-012411	71.0%	0
MW11-011911	73.2%	0
MW10-011911	76.4%	0
MW07-011911	80.0%	0
MW14-011911	76.4%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol


(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-1071 to 11-1074

FORM-II SW8041

Sample ID: MW13-012011
SAMPLE

Lab Sample ID: SF50A
LIMS ID: 11-1198
Matrix: Water
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted: 01/24/11
Date Analyzed: 01/27/11 02:29
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	78.0%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW06-012011

SAMPLE

Lab Sample ID: SF50B

LIMS ID: 11-1199

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 05:30

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	60.0%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW12-012011

SAMPLE

Lab Sample ID: SF50C

LIMS ID: 11-1200

Matrix: Water

Data Release Authorized: *JB*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 06:06

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U


Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.6%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW04-012011
SAMPLE

Lab Sample ID: SF50D
LIMS ID: 11-1201
Matrix: Water
Data Release Authorized: 
Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Date Extracted: 01/24/11
Date Analyzed: 01/27/11 06:42
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	77.6%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW17-012011

SAMPLE

Lab Sample ID: SF50E

LIMS ID: 11-1202

Matrix: Water

Data Release Authorized: *RB*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 07:19

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	77.2%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW03-012011

SAMPLE

Lab Sample ID: SF50F

LIMS ID: 11-1203

Matrix: Water

Data Release Authorized: *RB*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 07:55

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	79.6%
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SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-012411	74.0%	0
LCS-012411	71.0%	0
MW13-012011	78.0%	0
MW13-012011 MS	72.4%	0
MW13-012011 MSD	73.2%	0
MW06-012011	60.0%	0
MW12-012011	73.6%	0
MW04-012011	77.6%	0
MW17-012011	77.2%	0
MW03-012011	79.6%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-1198 to 11-1203

FORM-II SW8041

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW-15-012111

SAMPLE

Lab Sample ID: SF76A

LIMS ID: 11-1418

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 08:31

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	80.4%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW-05-012111

SAMPLE

Lab Sample ID: SF76B

LIMS ID: 11-1419

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 09:07

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	1.4

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.8%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW-16-012111

SAMPLE

Lab Sample ID: SF76C

LIMS ID: 11-1420

Matrix: Groundwater

Data Release Authorized: *13*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 09:43

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.8%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW-02-012111

SAMPLE

Lab Sample ID: SF76D

LIMS ID: 11-1421

Matrix: Groundwater

Data Release Authorized: *RB*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 11:32

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.4%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW-09-012111

SAMPLE

Lab Sample ID: SF76E

LIMS ID: 11-1422

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 12:08

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.29

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	78.0%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW-08-012111

SAMPLE

Lab Sample ID: SF76F

LIMS ID: 11-1423

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 12:44

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	80.4%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1



Sample ID: MW-01-012111

SAMPLE

Lab Sample ID: SF76G

LIMS ID: 11-1424

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snyder

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 13:20

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.76

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.8%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW-01-012111-D

SAMPLE

Lab Sample ID: SF76H

LIMS ID: 11-1425

Matrix: Groundwater

Data Release Authorized: *B*

Reported: 01/28/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 13:57

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.68

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	70.4%
----------------------	-------

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-012411	74.0%	0
LCS-012411	71.0%	0
MW-15-012111	80.4%	0
MW-05-012111	76.8%	0
MW-16-012111	74.8%	0
MW-02-012111	76.4%	0
MW-09-012111	78.0%	0
MW-08-012111	80.4%	0
MW-01-012111	74.8%	0
MW-01-012111-D	70.4%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-1418 to 11-1425

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW13-012011

MS/MSD

Lab Sample ID: SF50A

LIMS ID: 11-1198

Matrix: Water

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted MS/MSD: 01/24/11

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 01/27/11 03:06

Final Extract Volume MS: 50 mL

MSD: 01/27/11 04:54

MSD: 50 mL

Instrument/Analyst MS: ECD1/AAR

Dilution Factor MS: 1.00

MSD: ECD1/AAR

MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 0.25 U	2.04	2.50	81.6%	2.33	2.50	93.2%	13.3%

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW13-012011

MATRIX SPIKE

Lab Sample ID: SF50A

LIMS ID: 11-1198

Matrix: Water

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 03:06

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	72.4%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW13-012011

MATRIX SPIKE DUP

Lab Sample ID: SF50A

LIMS ID: 11-1198

Matrix: Water

Data Release Authorized: *AB*

Reported: 01/28/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Extracted: 01/24/11

Date Analyzed: 01/27/11 04:54

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.2%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: LCS-012411

LAB CONTROL

Lab Sample ID: LCS-012411

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/24/11

Date Analyzed: 01/26/11 22:53

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	1.89	2.50	75.6%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol 71.0%

Results reported in µg/L

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

SF26MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD-SNIDER
ARI Job No.: SF26	Project: LORA LAKE APTS RI
Lab Sample ID: SF26MBW1	Lab File ID: 0126A026
Matrix (soil/water) LIQUID	Extraction: (SepF/Cont/Sonc) SW3510C
Sulfur Cleanup (Y/N) Y	Date Extracted: 01/24/11
Date Analyzed (1): 01/26/11	Date Analyzed (2): 01/26/11
Time Analyzed (1): 2216	Time Analyzed (2): 2216
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): ZB5 ID: 0.53 (mm)	GC Column (2): ZB35 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SF26LCSW1	SF26LCSW1	01/26/11	01/26/11
02	MW11-011911	SF26A	01/27/11	01/27/11
03	MW10-011911	SF26B	01/27/11	01/27/11
04	MW07-011911	SF26C	01/27/11	01/27/11
05	MW14-011911	SF26D	01/27/11	01/27/11
06	MW13-012011	SF50A	01/27/11	01/27/11
07	MW13-012011	SF50AMS	01/27/11	01/27/11
08	MW13-012011	SF50AMSD	01/27/11	01/27/11
09	MW06-012011	SF50B	01/27/11	01/27/11
10	MW12-012011	SF50C	01/27/11	01/27/11
11	MW04-012011	SF50D	01/27/11	01/27/11
12	MW17-012011	SF50E	01/27/11	01/27/11
13	MW03-012011	SF50F	01/27/11	01/27/11
14	MW-15-012111	SF76A	01/27/11	01/27/11
15	MW-05-012111	SF76B	01/27/11	01/27/11
16	MW-16-012111	SF76C	01/27/11	01/27/11
17	MW-02-012111	SF76D	01/27/11	01/27/11
18	MW-09-012111	SF76E	01/27/11	01/27/11
19	MW-08-012111	SF76F	01/27/11	01/27/11
20	MW-01-012111	SF76G	01/27/11	01/27/11
21	MW-01-012111	SF76H	01/27/11	01/27/11

Sample ID: MB-012411
METHOD BLANK

Lab Sample ID: MB-012411
LIMS ID: 11-1071
Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 01/28/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 01/24/11
Date Analyzed: 01/26/11 22:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.0%
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6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 01/20/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	21.81	21.81	21.80	21.80	21.79	21.79	21.80	21.73	21.87
2,4,6-Trichloropheno	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.36	13.50
2,3,6-Trichloropheno	14.41	14.40	14.40	14.40	14.40	14.40	14.40	14.33	14.47
2,4,5-Trichloropheno	16.15	16.14	16.13	16.11	16.10	16.09	16.12	16.04	16.18
2,3,4-Trichloropheno	17.40	17.38	17.37	17.36	17.34	17.33	17.37	17.29	17.43
2,3,5,6-Tetrachlorop	17.77	17.75	17.75	17.74	17.73	17.73	17.75	17.67	17.81
2,3,4,5-Tetrachlorop	20.57	20.56	20.56	20.55	20.54	20.54	20.56	20.48	20.62
2,4-Dichlorophenol	12.46	12.46	12.46	12.45	12.45	12.45	12.46	12.38	12.52
2,4,6-Tribromophenol	19.69	19.68	19.67	19.66	19.65	19.65	19.67	19.59	19.73

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 01/20/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	22.67	22.67	22.67	22.66	22.66	22.66	22.66	22.59	22.73
2,4,6-Trichloropheno	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.75	13.89
2,3,6-Trichloropheno	15.23	15.23	15.23	15.22	15.22	15.22	15.22	15.15	15.29
2,4,5-Trichloropheno	17.22	17.21	17.20	17.19	17.18	17.18	17.20	17.12	17.26
2,3,4-Trichloropheno	18.78	18.77	18.76	18.75	18.75	18.74	18.76	18.68	18.82
2,3,5,6-Tetrachlorop	18.47	18.46	18.46	18.45	18.45	18.45	18.46	18.38	18.52
2,3,4,5-Tetrachlorop	21.87	21.86	21.85	21.85	21.84	21.84	21.85	21.78	21.92
2,4-Dichlorophenol	13.48	13.47	13.47	13.47	13.46	13.47	13.47	13.40	13.54
2,4,6-Tribromophenol	20.92	20.91	20.91	20.90	20.90	20.90	20.91	20.83	20.97

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 01/20/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	20177	18362	17052	15360	13891	12493	17.6	A
2,4,6-Trichlorophenol	15744	12080	10692	9522	8382	7514	0.9994	Q
2,3,6-Trichlorophenol	11226	10352	9490	8555	7872	7121	17.0	A
2,4,5-Trichlorophenol	4759	5090	5581	4802	4424	3720	13.3	A
2,3,4-Trichlorophenol	7337	7013	6996	6288	5645	4759	15.6	A
2,3,5,6-Tetrachloroph	16883	15577	14946	13294	12138	10851	16.2	A
2,3,4,5-Tetrachloroph	13676	11930	11231	9890	9004	7870	19.8	A
2,4-Dichlorophenol	761	695	620	554	446	396	0.9984	Q
2,4,6-Tribromophenol	15206	14055	13692	12432	11498	10448	13.6	A
AVE RSD							18.4	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A006.d
- LVL 2: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A007.d
- LVL 3: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A008.d
- LVL 4: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A009.d
- LVL 5: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A010.d
- LVL 6: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A005.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 01/20/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	30850	27921	27400	25461	23902	21788	12.2	A
2,4,6-Trichlorophenol	17029	16115	15838	14657	13068	11917	13.2	A
2,3,6-Trichlorophenol	15567	14902	14552	13471	12493	11366	11.6	A
2,4,5-Trichlorophenol	9365	8870	8922	7796	7108	6268	15.0	A
2,3,4-Trichlorophenol	9097	10192	10487	9544	8434	7513	12.1	A
2,3,5,6-Tetrachloroph	23477	22485	22180	20918	19564	17948	9.7	A
2,3,4,5-Tetrachloroph	18821	17682	16941	15619	14395	12814	13.8	A
2,4-Dichlorophenol	991	911	953	778	645	543	0.9993	Q
2,4,6-Tribromophenol	21717	20945	20521	19940	19152	17830	6.9	A
AVE RSD							13.0	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A006.d
- LVL 2: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A007.d
- LVL 3: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A008.d
- LVL 4: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A009.d
- LVL 5: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A010.d
- LVL 6: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A005.d

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No. (PCP):

Date Analyzed :01/26/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2140

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.80	21.73	21.87	24.0	25.0	-4.0
2,4,6-Trichlorophenol	13.43	13.36	13.50	24.7	25.0	-1.2
2,3,6-Trichlorophenol	14.40	14.33	14.47	24.2	25.0	-3.2
2,4,5-Trichlorophenol	16.11	16.04	16.18	26.4	25.0	5.6
2,3,4-Trichlorophenol	17.36	17.29	17.43	25.4	25.0	1.6
2,3,5,6-Tetrachlorophenol	17.74	17.67	17.81	24.1	25.0	-3.6
2,3,4,5-Tetrachlorophenol	20.55	20.48	20.62	24.6	25.0	-1.6
2,4-Dichlorophenol	12.45	12.38	12.52	272	250	8.8
2,4,6-Tribromophenol (surr	19.66	19.59	19.73	24.3	25.0	-2.8

AVERAGE %D = 3.6

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No. (PCP):

Date Analyzed : 01/26/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed : 2140

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.66	22.59	22.73	23.7	25.0	-5.2
2,4,6-Trichlorophenol	13.82	13.75	13.89	24.8	25.0	-0.8
2,3,6-Trichlorophenol	15.23	15.15	15.29	23.7	25.0	-5.2
2,4,5-Trichlorophenol	17.19	17.12	17.26	23.7	25.0	-5.2
2,3,4-Trichlorophenol	18.76	18.68	18.82	24.9	25.0	-0.4
2,3,5,6-Tetrachlorophenol	18.45	18.38	18.52	23.6	25.0	-5.6
2,3,4,5-Tetrachlorophenol	21.85	21.78	21.92	24.0	25.0	-4.0
2,4-Dichlorophenol	13.47	13.40	13.54	234	250	-6.4
2,4,6-Tribromophenol (surr	20.90	20.83	20.97	23.6	25.0	-5.6

AVERAGE %D = 4.3

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No. (PCP):

Date Analyzed :01/27/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0418

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.80	21.73	21.87	25.0	25.0	0.0
2,4,6-Trichlorophenol	13.43	13.36	13.50	25.6	25.0	2.4
2,3,6-Trichlorophenol	14.40	14.33	14.47	24.7	25.0	-1.2
2,4,5-Trichlorophenol	16.12	16.04	16.18	28.1	25.0	12.4
2,3,4-Trichlorophenol	17.36	17.29	17.43	26.2	25.0	4.8
2,3,5,6-Tetrachlorophenol	17.74	17.67	17.81	24.8	25.0	-0.8
2,3,4,5-Tetrachlorophenol	20.55	20.48	20.62	27.9	25.0	11.6
2,4-Dichlorophenol	12.46	12.38	12.52	283	250	13.2
2,4,6-Tribromophenol (surr	19.67	19.59	19.73	25.7	25.0	2.8

AVERAGE %D = 5.5

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No.(PCP):

Date Analyzed :01/27/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0418

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.67	22.59	22.73	24.8	25.0	-0.8
2,4,6-Trichlorophenol	13.82	13.75	13.89	25.9	25.0	3.6
2,3,6-Trichlorophenol	15.23	15.15	15.29	24.6	25.0	-1.6
2,4,5-Trichlorophenol	17.20	17.12	17.26	24.7	25.0	-1.2
2,3,4-Trichlorophenol	18.76	18.68	18.82	26.0	25.0	4.0
2,3,5,6-Tetrachlorophenol	18.45	18.38	18.52	24.6	25.0	-1.6
2,3,4,5-Tetrachlorophenol	21.85	21.78	21.92	25.0	25.0	0.0
2,4-Dichlorophenol	13.47	13.40	13.54	245	250	-2.0
2,4,6-Tribromophenol (surr	20.91	20.83	20.97	24.8	25.0	-0.8

AVERAGE %D = 1.7

FORM VII PCP

SF26: 00150

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No.(PCP):

Date Analyzed :01/27/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1056

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.80	21.73	21.87	25.9	25.0	3.6
2,4,6-Trichlorophenol	13.43	13.36	13.50	26.7	25.0	6.8
2,3,6-Trichlorophenol	14.40	14.33	14.47	25.5	25.0	2.0
2,4,5-Trichlorophenol	16.12	16.04	16.18	28.9	25.0	15.6
2,3,4-Trichlorophenol	17.36	17.29	17.43	27.2	25.0	8.8
2,3,5,6-Tetrachlorophenol	17.75	17.67	17.81	26.1	25.0	4.4
2,3,4,5-Tetrachlorophenol	20.56	20.48	20.62	29.6	25.0	18.4
2,4-Dichlorophenol	12.46	12.38	12.52	294	250	17.6
2,4,6-Tribromophenol (surr	19.67	19.59	19.73	26.6	25.0	6.4

AVERAGE %D = 9.3

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No.(PCP):

Date Analyzed :01/27/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1056

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.66	22.59	22.73	26.0	25.0	4.0
2,4,6-Trichlorophenol	13.82	13.75	13.89	27.3	25.0	9.2
2,3,6-Trichlorophenol	15.23	15.15	15.29	25.8	25.0	3.2
2,4,5-Trichlorophenol	17.20	17.12	17.26	25.6	25.0	2.4
2,3,4-Trichlorophenol	18.76	18.68	18.82	27.2	25.0	8.8
2,3,5,6-Tetrachlorophenol	18.45	18.38	18.52	25.8	25.0	3.2
2,3,4,5-Tetrachlorophenol	21.85	21.78	21.92	26.1	25.0	4.4
2,4-Dichlorophenol	13.47	13.40	13.54	258	250	3.2
2,4,6-Tribromophenol (surr	20.91	20.83	20.97	26.1	25.0	4.4

AVERAGE %D = 4.8

FORM VII PCP

SF26 : 00100

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: SF26

Project: LORA LAKE APTS RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No.(PCP):

Date Analyzed :01/27/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1509

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.80	21.73	21.87	26.2	25.0	4.8
2,4,6-Trichlorophenol	13.43	13.36	13.50	27.4	25.0	9.6
2,3,6-Trichlorophenol	14.40	14.33	14.47	26.0	25.0	4.0
2,4,5-Trichlorophenol	16.12	16.04	16.18	28.4	25.0	13.6
2,3,4-Trichlorophenol	17.36	17.29	17.43	27.6	25.0	10.4
2,3,5,6-Tetrachlorophenol	17.75	17.67	17.81	26.6	25.0	6.4
2,3,4,5-Tetrachlorophenol	20.56	20.48	20.62	30.7	25.0	22.8
2,4-Dichlorophenol	12.46	12.38	12.52	298	250	19.2
2,4,6-Tribromophenol (surr)	19.67	19.59	19.73	27.1	25.0	8.4

AVERAGE %D = 11.0

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 ARI Job No.: SF26 Project: LORA LAKE APTS RI
 GC Column: ZB35 ID: 0.53 (mm)
 Init. Calib. Date(s): 01/20/11 01/20/11

Client Sample No. (PCP): Date Analyzed :01/27/11
 Lab Sample ID (PCP): PCP CCAL Time Analyzed :1509

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.67	22.59	22.73	26.7	25.0	6.8
2,4,6-Trichlorophenol	13.82	13.75	13.89	28.5	25.0	14.0
2,3,6-Trichlorophenol	15.23	15.15	15.29	26.5	25.0	6.0
2,4,5-Trichlorophenol	17.20	17.12	17.26	26.1	25.0	4.4
2,3,4-Trichlorophenol	18.76	18.68	18.82	27.6	25.0	10.4
2,3,5,6-Tetrachlorophenol	18.46	18.38	18.52	26.5	25.0	6.0
2,3,4,5-Tetrachlorophenol	21.85	21.78	21.92	26.5	25.0	6.0
2,4-Dichlorophenol	13.47	13.40	13.54	26.2	25.0	4.8
2,4,6-Tribromophenol (surr)	20.91	20.83	20.97	26.8	25.0	7.2

AVERAGE %D = 7.3

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 ARI Job No.: SF26 Project: LORA LAKE APTS RI
 GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 01/20/11 01/20/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 19.66					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPF	01/20/11	1830	19.65	
02	PCPA	01/20/11	1906	19.69	
03	PCPB	01/20/11	1943	19.68	
04	PCPC	01/20/11	2019	19.67	
05	PCPD	01/20/11	2055	19.66	
06	PCPE	01/20/11	2131	19.65	
07	ZZZZZ	01/20/11	2207	19.67	
08	PCP CCAL	01/26/11	2140	19.66	
09	SF26MBW1	01/26/11	2216	19.68	
10	SF26LCSW1	01/26/11	2253	19.67	
11	ZZZZZ	01/26/11	2329	19.68	
12	MW11-011911	01/27/11	0005	19.68	
13	MW10-011911	01/27/11	0041	19.68	
14	MW07-011911	01/27/11	0117	19.68	
15	MW14-011911	01/27/11	0153	19.68	
16	MW13-012011	01/27/11	0229	19.68	
17	MW13-012011	01/27/11	0306	19.68	
18	ZZZZZ	01/27/11	0342	19.67	
19	PCP CCAL	01/27/11	0418	19.67	
20	MW13-012011	01/27/11	0454	19.67	
21	MW06-012011	01/27/11	0530	19.65	
22	MW12-012011	01/27/11	0606	19.69	
23	MW04-012011	01/27/11	0642	19.69	
24	MW17-012011	01/27/11	0719	19.70	
25	MW03-012011	01/27/11	0755	19.69	
26	MW-15-012111	01/27/11	0831	19.68	
27	MW-05-012111	01/27/11	0907	19.68	
28	MW-16-012111	01/27/11	0943	19.69	
29	ZZZZZ	01/27/11	1020	19.67	
30	PCP CCAL	01/27/11	1056	19.67	
31	MW-02-012111	01/27/11	1132	19.68	
32	MW-09-012111	01/27/11	1208	19.68	

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 ARI Job No.: SF26 Project: LORA LAKE APTS RI
 GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 01/20/11 01/20/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 19.66					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01 MW-08-012111	SF76F	01/27/11	1244	19.69	
02 MW-01-012111	SF76G	01/27/11	1320	19.65	
03 MW-01-012111	SF76H	01/27/11	1357	19.65	
04 ZZZZZ	ZZZZZ	01/27/11	1433	19.67	
05	PCP CCAL	01/27/11	1509	19.67	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 ARI Job No.: SF26 Project: LORA LAKE APTS RI
 GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 01/20/11 01/20/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.90					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPF	01/20/11	1830	20.90	
02	PCPA	01/20/11	1906	20.92	
03	PCPB	01/20/11	1943	20.91	
04	PCPC	01/20/11	2019	20.91	
05	PCPD	01/20/11	2055	20.90	
06	PCPE	01/20/11	2131	20.90	
07	ZZZZZ	01/20/11	2207	20.91	
08	PCP CCAL	01/26/11	2140	20.90	
09	SF26MBW1	01/26/11	2216	20.92	
10	SF26LCSW1	01/26/11	2253	20.91	
11	ZZZZZ	01/26/11	2329	20.92	
12	MW11-011911	01/27/11	0005	20.92	
13	MW10-011911	01/27/11	0041	20.92	
14	MW07-011911	01/27/11	0117	20.92	
15	MW14-011911	01/27/11	0153	20.92	
16	MW13-012011	01/27/11	0229	20.92	
17	MW13-012011	01/27/11	0306	20.92	
18	ZZZZZ	01/27/11	0342	20.91	
19	PCP CCAL	01/27/11	0418	20.91	
20	MW13-012011	01/27/11	0454	20.91	
21	MW06-012011	01/27/11	0530	20.90	
22	MW12-012011	01/27/11	0606	20.92	
23	MW04-012011	01/27/11	0642	20.93	
24	MW17-012011	01/27/11	0719	20.93	
25	MW03-012011	01/27/11	0755	20.93	
26	MW-15-012111	01/27/11	0831	20.92	
27	MW-05-012111	01/27/11	0907	20.91	
28	MW-16-012111	01/27/11	0943	20.93	
29	ZZZZZ	01/27/11	1020	20.91	
30	PCP CCAL	01/27/11	1056	20.91	
31	MW-02-012111	01/27/11	1132	20.91	
32	MW-09-012111	01/27/11	1208	20.92	

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 ARI Job No.: SF26 Project: LORA LAKE APTS RI
 GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 01/20/11 01/20/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.90					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
	=====	=====	=====	=====	=====
01	MW-08-012111	SF76F	01/27/11	1244	20.92
02	MW-01-012111	SF76G	01/27/11	1320	20.90
03	MW-01-012111	SF76H	01/27/11	1357	20.90
04	ZZZZZ	ZZZZZ	01/27/11	1433	20.91
05		PCP CCAL	01/27/11	1509	20.91

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

**TPHD Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

Data Release Authorized: *mw*
Reported: 01/28/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-012411 11-1071	Method Blank HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 82.4%
SF26A 11-1071	MW11-011911 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 80.1%
SF26B 11-1072	MW10-011911 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 81.8%
SF26C 11-1073	MW07-011911 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 80.7%
SF26D 11-1074	MW14-011911 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 86.5%

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: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-012411	82.4%	0
LCS-012411	79.3%	0
MW11-011911	80.1%	0
MW10-011911	81.8%	0
MW07-011911	80.7%	0
MW14-011911	86.5%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-1071 to 11-1074

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Groundwater
Date Received: 01/19/11

ARI Job: SF26
Project: Lora Lake Apts RI
POS-LLA

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-1071-012411MB1	Method Blank	500 mL	1.00 mL	01/24/11
11-1071-012411LCS1	Lab Control	500 mL	1.00 mL	01/24/11
11-1071-SF26A	MW11-011911	500 mL	1.00 mL	01/24/11
11-1072-SF26B	MW10-011911	500 mL	1.00 mL	01/24/11
11-1073-SF26C	MW07-011911	500 mL	1.00 mL	01/24/11
11-1074-SF26D	MW14-011911	500 mL	1.00 mL	01/24/11

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: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

Data Release Authorized: *WVW*
Reported: 01/28/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-012411 11-1198	Method Blank HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 82.4%
SF50A 11-1198	MW13-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 85.9%
SF50B 11-1199	MW06-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 80.8%
SF50C 11-1200	MW12-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 86.7%
SF50D 11-1201	MW04-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 82.4%
SF50E 11-1202	MW17-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 83.7%
SF50F 11-1203	MW03-012011 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 80.7%

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: SF50-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT</u>	<u>OUT</u>
MB-012411	82.4%	0	
LCS-012411	79.3%	0	
MW13-012011	85.9%	0	
MW13-012011 MS	84.3%	0	
MW13-012011 MSD	89.8%	0	
MW06-012011	80.8%	0	
MW12-012011	86.7%	0	
MW04-012011	82.4%	0	
MW17-012011	83.7%	0	
MW03-012011	80.7%	0	

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-1198 to 11-1203

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 01/20/11

ARI Job: SF50
Project: Lora Lake Apts RI
POS-LLA

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-1198-012411MB1	Method Blank	500 mL	1.00 mL	01/24/11
11-1198-012411LCS1	Lab Control	500 mL	1.00 mL	01/24/11
11-1198-SF50A	MW13-012011	500 mL	1.00 mL	01/24/11
11-1198-SF50AMS	MW13-012011	500 mL	1.00 mL	01/24/11
11-1198-SF50AMSD	MW13-012011	500 mL	1.00 mL	01/24/11
11-1199-SF50B	MW06-012011	500 mL	1.00 mL	01/24/11
11-1200-SF50C	MW12-012011	500 mL	1.00 mL	01/24/11
11-1201-SF50D	MW04-012011	500 mL	1.00 mL	01/24/11
11-1202-SF50E	MW17-012011	500 mL	1.00 mL	01/24/11
11-1203-SF50F	MW03-012011	500 mL	1.00 mL	01/24/11

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA

Data Release Authorized:
Reported: 01/31/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-012411 11-1418	Method Blank HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 82.4%
SF76A 11-1418	MW-15-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 85.2%
SF76B 11-1419	MW-05-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 78.4%
SF76C 11-1420	MW-16-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 81.1%
SF76D 11-1421	MW-02-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 83.5%
SF76E 11-1422	MW-09-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 77.6%
SF76F 11-1423	MW-08-012111 HC ID: ---	01/24/11	01/25/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 77.6%
SF76G 11-1424	MW-01-012111 HC ID: MOTOR OIL	01/24/11	01/26/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U 0.25 84.5%
SF76H 11-1425	MW-01-012111-D HC ID: DIESEL/MOTOR OIL	01/24/11	01/26/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.18 0.53 79.8%

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.

FORM I

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-012411	82.4%	0
LCS-012411	79.3%	0
MW-15-012111	85.2%	0
MW-05-012111	78.4%	0
MW-16-012111	81.1%	0
MW-02-012111	83.5%	0
MW-09-012111	77.6%	0
MW-08-012111	77.6%	0
MW-01-012111	84.5%	0
MW-01-012111-D	79.8%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-1418 to 11-1425

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Groundwater
Date Received: 01/21/11

ARI Job: SF76
Project: Lora Lakes Apts RI
POS-LLA

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-1418-012411MB1	Method Blank	500 mL	1.00 mL	01/24/11
11-1418-012411LCS1	Lab Control	500 mL	1.00 mL	01/24/11
11-1418-SF76A	MW-15-012111	500 mL	1.00 mL	01/24/11
11-1419-SF76B	MW-05-012111	500 mL	1.00 mL	01/24/11
11-1420-SF76C	MW-16-012111	500 mL	1.00 mL	01/24/11
11-1421-SF76D	MW-02-012111	500 mL	1.00 mL	01/24/11
11-1422-SF76E	MW-09-012111	500 mL	1.00 mL	01/24/11
11-1423-SF76F	MW-08-012111	500 mL	1.00 mL	01/24/11
11-1424-SF76G	MW-01-012111	500 mL	1.00 mL	01/24/11
11-1425-SF76H	MW-01-012111-D	500 mL	1.00 mL	01/24/11

Diesel Extraction Report

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: MW13-012011
 MS/MSD

Lab Sample ID: SF50A
 LIMS ID: 11-1198
 Matrix: Water
 Data Release Authorized: *MM*
 Reported: 01/28/11

QC Report No: SF50-Floyd/Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 01/20/11
 Date Received: 01/20/11

Date Extracted MS/MSD: 01/24/11
 Date Analyzed MS: 01/25/11 18:59
 MSD: 01/25/11 19:20
 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	< 0.10	2.42	3.00	80.7%	2.43	3.00	81.0%	0.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	84.3%	89.8%

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-012411

LAB CONTROL

Lab Sample ID: LCS-012411

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: *MW*

Reported: 01/28/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Extracted: 01/24/11

Date Analyzed: 01/25/11 15:44

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	2.50	3.00	83.3%

TPHD Surrogate Recovery

o-Terphenyl	79.3%
-------------	-------

Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

SF26MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26,SF50,SF76

Project No.: LORA LAKE APTS.

Date Extracted: 01/24/11

Matrix: LIQUID

Date Analyzed : 01/25/11

Instrument ID : FID9

Time Analyzed : 1522

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	SF26LCSW1	SF26LCSW1	01/25/11
02	MW11-011911	SF26A	01/25/11
03	MW10-011911	SF26B	01/25/11
04	MW07-011911	SF26C	01/25/11
05	MW14-011911	SF26D	01/25/11
06	MW13-012011	SF50A	01/25/11
07	MW13-012011	SF50AMS	01/25/11
08	MW13-012011	SF50AMSD	01/25/11
09	MW06-012011	SF50B	01/25/11
10	MW12-012011	SF50C	01/25/11
11	MW04-012011	SF50D	01/25/11
12	MW17-012011	SF50E	01/25/11
13	MW03-012011	SF50F	01/25/11
14	MW-15-012111	SF76A	01/25/11
15	MW-05-012111	SF76B	01/25/11
16	MW-16-012111	SF76C	01/25/11
17	MW-02-012111	SF76D	01/25/11
18	MW-09-012111	SF76E	01/25/11
19	MW-08-012111	SF76F	01/25/11
20	MW-01-012111	SF76G	01/26/11
21	MW-01-012111	SF76H	01/26/11
22			
23			
24			
25			
26			
27			
28			
29			
30			

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID9.I

Project: LORA LAKES APTS. RI

Calibration Date: 20-JAN-2011

SDG No.: SF26, SF50, SF76

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	24039	22507	22451	22137	23038	21746	22653	3.5
AK Diesel	27229	25485	25276	24857	25838	24470	25526	3.8
OR Diesel	27318	25588	25386	24978	25964	24607	25641	3.7
o-Terph	21882	20885	21247	21247	21987	21255	21417	2.0

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (2.623-5.324)
 AK Diesel C10-C25 (1.988-5.548)
 OR Diesel C10-C28 (1.988-6.104)

Calibration Files Analysis Time

0120A007.D	20-JAN-2011 16:13
0120A008.D	20-JAN-2011 16:34
0120A009.D	20-JAN-2011 16:56
0120A010.D	20-JAN-2011 17:17
0120A011.D	20-JAN-2011 17:39
0120A014.D	20-JAN-2011 18:43

6a
NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID9.I

Project: LORA LAKES APTS. RI

Calibration Date: 20-JAN-2011

SDG No.: SF26,SF50,SF76

Product Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil C24-C38	11365	12494	12640	13320	13928	15835	13264	11.5
Triac Surr	14163	16198	16626	17913	19039	21819	17626	14.9

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Calibration Files Analysis Time

0120A015.D	20-JAN-2011 19:04
0120A016.D	20-JAN-2011 19:26
0120A017.D	20-JAN-2011 19:47
0120A018.D	20-JAN-2011 20:08
0120A019.D	20-JAN-2011 20:30
0120A020.D	20-JAN-2011 20:51

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 25-JAN-2011 SDG No.: SF26,SF50,SF76
 Analysis Time: 14:39 Lab ID: DIESEL#1
 Instrument: FID9.I Lab File Name: 0125A004.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5624540	248.3	250	-0.7
AK102 (C10-C25)	6299666	246.8	250	-1.3
Terphenyl	943121	44.0	45	-2.1

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 25-JAN-2011 SDG No.: SF26, SF50, SF76
 Analysis Time: 15:01 Lab ID: MOIL#1
 Instrument: FID9.I Lab File Name: 0125A005.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	6988648	526.9	500	5.4	
AK103 (C25-C36)	6091193	716.8	500	43.4	<-
n-Triacontane	921673	52.3	45	16.2	<-

* 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

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 25-JAN-2011 SDG No.: SF26,SF50,SF76
 Analysis Time: 17:54 Lab ID: DIESEL#2
 Instrument: FID9.I Lab File Name: 0125A013.D

Diesel Range	Area*	CalcAmt	NomAmt	% D
WADies (C12-C24)	5540246	244.6	250	-2.2
AK102 (C10-C25)	6258730	245.2	250	-1.9
Terphenyl	945432	44.1	45	-1.9

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 25-JAN-2011 SDG No.: SF26,SF50,SF76
 Analysis Time: 18:16 Lab ID: MOIL#2
 Instrument: FID9.I Lab File Name: 0125A014.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	6929506	522.4	500	4.5
AK103 (C25-C36)	5993218	705.2	500	41.0
n-Triacontane	911672	51.7	45	14.9

<-

* 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

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 20-JAN-2011

Project: LORA LAKES APTS. RI

CCal Date: 25-JAN-2011

SDG No.: SF26,SF50,SF76

Analysis Time: 21:29

Lab ID: DIESEL#3

Instrument: FID9.I

Lab File Name: 0125A023.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5640807	249.0	250	-0.4
AK102 (C10-C25)	6355669	249.0	250	-0.4
Terphenyl	952518	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

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES APTS. RI
 CCal Date: 25-JAN-2011 SDG No.: SF26, SF50, SF76
 Analysis Time: 21:50 Lab ID: MOIL#3
 Instrument: FID9.I Lab File Name: 0125A024.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	7111654	536.2	500	7.2	
AK103 (C25-C36)	6143364	722.9	500	44.6	<-
n-Triacontane	921178	52.3	45	16.1	<-

* 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

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 26-JAN-2011 SDG No.: SF26,SF50,SF76
 Analysis Time: 01:03 Lab ID: DIESEL#4
 Instrument: FID9.I Lab File Name: 0125A033.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5768877	254.7	250	1.9
AK102 (C10-C25)	6501359	254.7	250	1.9
Terphenyl	975983	45.6	45	1.3

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKE APTS. RI
 CCal Date: 26-JAN-2011 SDG No.: SF26, SF50, SF76
 Analysis Time: 01:24 Lab ID: MOIL#4
 Instrument: FID9.I Lab File Name: 0125A034.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	7100816	535.4	500	7.1	
AK103 (C25-C36)	6191179	728.5	500	45.7	<-
n-Triacontane	928207	52.7	45	17.0	<-

* 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

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26,SF50,SF76

Project: LORA LAKE APTS. RI

Instrument ID: FID9

GC Column: RTX-1

Run Date: 01/25/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 4.17		TRIAIC: 6.42		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAIC RT #	
01	ZZZZZ	ZZZZZ	01/25/11	1335	4.17	6.43
02	RT	RT	01/25/11	1356	4.17	6.42
03	IB	IB	01/25/11	1417	4.17	6.42
04	LORA LAKE AP	DIESEL#1	01/25/11	1439	4.16	6.43
05	LORA LAKE AP	MOIL#1	01/25/11	1501	4.17	6.42
06	SF26MBW1	SF26MBW1	01/25/11	1522	4.16	6.42
07	SF26LCSW1	SF26LCSW1	01/25/11	1544	4.17	6.41
08	ZZZZZ	ZZZZZ	01/25/11	1606	4.16	6.42
09	MW11-011911	SF26A	01/25/11	1627	4.16	6.41
10	MW10-011911	SF26B	01/25/11	1649	4.16	6.42
11	MW07-011911	SF26C	01/25/11	1711	4.16	6.42
12	MW14-011911	SF26D	01/25/11	1732	4.16	6.42
13	LORA LAKE AP	DIESEL#2	01/25/11	1754	4.17	6.41
14	LORA LAKE AP	MOIL#2	01/25/11	1816	4.17	6.42
15	MW13-012011	SF50A	01/25/11	1837	4.16	6.42
16	MW13-012011	SF50AMS	01/25/11	1859	4.17	6.42
17	MW13-012011	SF50AMSD	01/25/11	1920	4.17	6.42
18	MW06-012011	SF50B	01/25/11	1942	4.16	6.43
19	MW12-012011	SF50C	01/25/11	2003	4.16	6.42
20	MW04-012011	SF50D	01/25/11	2025	4.16	6.42
21	MW17-012011	SF50E	01/25/11	2046	4.16	6.42
22	MW03-012011	SF50F	01/25/11	2108	4.16	6.42
23	LORA LAKES A	DIESEL#3	01/25/11	2129	4.16	6.41
24	LORA LAKES A	MOIL#3	01/25/11	2150	4.17	6.42
25	MW-15-012111	SF76A	01/25/11	2212	4.16	6.42
26	MW-05-012111	SF76B	01/25/11	2233	4.16	6.42
27	MW-16-012111	SF76C	01/25/11	2254	4.16	6.42
28	MW-02-012111	SF76D	01/25/11	2316	4.16	6.42
29	MW-09-012111	SF76E	01/25/11	2337	4.16	6.42
30	MW-08-012111	SF76F	01/25/11	2359	4.16	6.42
31	MW-01-012111	SF76G	01/26/11	0020	4.16	6.42
32	MW-01-012111	SF76H	01/26/11	0041	4.16	6.42

QC LIMITS
 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.: SF26, SF50, SF76

Project: LORA LAKE APTS. RI

Instrument ID: FID9

GC Column: RTX-1

Run Date: 01/25/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 4.17			TRIAAC: 6.42	
CLIENT	LAB	DATE	TIME	TERPH	TRIAAC	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #	
=====						
01	LORA LAKE AP	DIESEL#4	01/26/11	0103	4.16	6.41
02	LORA LAKE AP	MOIL#4	01/26/11	0124	4.17	6.42

TERPH = o-terph
TRIAAC = 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.: SF26, SF50, SF76

Project: LORA LAKES APTS. RI

Instrument ID: FID9

GC Column: RTX-1

Run Date: 01/20/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 4.17	TRIAC: 6.42		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RINSE	01/20/11	1242	4.16	6.41
02	RINSE	01/20/11	1303	4.17	6.42
03	RINSE	01/20/11	1324	4.16	6.42
04	RINSE	01/20/11	1509	4.17	6.43
05	RT	01/20/11	1530	4.17	6.42
06	IB	01/20/11	1552	4.17	6.42
07	DIESEL 50	01/20/11	1613	4.16	6.41
08	DIESEL 100	01/20/11	1634	4.16	6.41
09	DIESEL 250	01/20/11	1656	4.17	6.41
10	DIESEL 500	01/20/11	1717	4.18	6.42
11	DIESEL 1000	01/20/11	1739	4.19	6.42
12	BLANK	01/20/11	1800	4.17	6.42
13	DIESEL ICV	01/20/11	1822	4.17	6.41
14	DIESEL 2500	01/20/11	1843	4.21	6.41
15	MOIL 100	01/20/11	1904	4.17	6.41
16	MOIL 250	01/20/11	1926	4.17	6.42
17	MOIL 500	01/20/11	1947	4.17	6.42
18	MOIL 1000	01/20/11	2008	4.17	6.44
19	MOIL 2500	01/20/11	2030	4.17	6.46
20	MOIL 5000	01/20/11	2051	4.17	6.50*
21	MOIL ICV	01/20/11	2112	4.17	6.42

TERPH = o-terph (+/- 0.05 MINUTES)
 TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

*Peak shifting occurs when column plates are close to overloaded.
 Sample surrogates are spiked at 45ppm. n-Triacontane quants %14.9 RSD and
 meets Ical criteria. No further corrective action needed.

**TPHG/BETX Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW11-011911

SAMPLE

Lab Sample ID: SF26A

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Analyzed: 01/24/11 09:20

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.6%
Bromobenzene	95.9%

Gasoline Surrogate Recovery

Trifluorotoluene	99.1%
Bromobenzene	98.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW10-011911

SAMPLE

Lab Sample ID: SF26B

LIMS ID: 11-1072

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Analyzed: 01/24/11 09:47

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	99.1%
Bromobenzene	97.9%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	101%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW07-011911

SAMPLE

Lab Sample ID: SF26C

LIMS ID: 11-1073

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Analyzed: 01/24/11 10:13

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	96.2%

Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	98.5%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW14-011911

SAMPLE

Lab Sample ID: SF26D

LIMS ID: 11-1074

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Analyzed: 01/24/11 10:39

Purge Volume: 5.0 mL

Instrument/Analyst: PID3/MH

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.7%
Bromobenzene	96.5%

Gasoline Surrogate Recovery

Trifluorotoluene	99.2%
Bromobenzene	98.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF26
Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-012411	81.2%	84.1%	0
LCS-012411	82.5%	83.1%	0
LCSD-012411	94.1%	93.6%	0
MW11-011911	96.6%	95.9%	0
MW10-011911	99.1%	97.9%	0
MW07-011911	95.1%	96.2%	0
MW14-011911	96.7%	96.5%	0
MW14-011911 MS	100%	99.2%	0
MW14-011911 MSD	98.9%	96.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-1071 to 11-1074

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF26
Matrix: Groundwater

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-012411	82.4%	87.1%	0
LCS-012411	87.8%	86.2%	0
LCSD-012411	97.5%	97.3%	0
MW11-011911	99.1%	98.0%	0
MW10-011911	101%	101%	0
MW07-011911	98.2%	98.5%	0
MW14-011911	99.2%	98.1%	0
MW14-011911 MS	105%	102%	0
MW14-011911 MSD	104%	100%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-1071 to 11-1074

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW13-012011

SAMPLE

Lab Sample ID: SF50A

LIMS ID: 11-1198

Matrix: Water

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 13:16

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	95.2%

Gasoline Surrogate Recovery

Trifluorotoluene	98.5%
Bromobenzene	99.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW06-012011

SAMPLE

Lab Sample ID: SF50B

LIMS ID: 11-1199

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 13:42

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.9%
Bromobenzene	98.1%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	101%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW12-012011

SAMPLE

Lab Sample ID: SF50C

LIMS ID: 11-1200

Matrix: Water

Data Release Authorized: *B*

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 14:06

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	99.0%
Bromobenzene	99.7%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW04-012011

SAMPLE

Lab Sample ID: SF50D

LIMS ID: 11-1201

Matrix: Water

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 14:32

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	95.7%

Gasoline Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	97.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW17-012011

SAMPLE

Lab Sample ID: SF50E

LIMS ID: 11-1202

Matrix: Water

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 14:59

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.2%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	97.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW03-012011

SAMPLE

Lab Sample ID: SF50F

LIMS ID: 11-1203

Matrix: Water

Data Release Authorized: *B*

Reported: 01/27/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Date Analyzed: 01/24/11 15:25

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	97.1%

Gasoline Surrogate Recovery

Trifluorotoluene	98.4%
Bromobenzene	98.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF50
Matrix: Water

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-012411	81.2%	84.1%	0
LCS-012411	82.5%	83.1%	0
LCSD-012411	94.1%	93.6%	0
MW13-012011	96.3%	95.2%	0
MW06-012011	97.9%	98.1%	0
MW12-012011	96.8%	95.6%	0
MW04-012011	96.2%	95.7%	0
MW17-012011	95.2%	95.3%	0
MW03-012011	96.2%	97.1%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-1198 to 11-1203

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF50
Matrix: Water

QC Report No: SF50-Floyd/Snider
Project: Lora Lake Apts RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-012411	82.4%	87.1%	0
LCS-012411	87.8%	86.2%	0
LCSD-012411	97.5%	97.3%	0
MW13-012011	98.5%	99.1%	0
MW06-012011	101%	101%	0
MW12-012011	99.0%	99.7%	0
MW04-012011	97.3%	97.0%	0
MW17-012011	97.5%	97.6%	0
MW03-012011	98.4%	98.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-1198 to 11-1203

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-15-012111

SAMPLE

Lab Sample ID: SF76A

LIMS ID: 11-1418

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 17:10

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.8%
Bromobenzene	96.3%

Gasoline Surrogate Recovery

Trifluorotoluene	98.0%
Bromobenzene	99.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-05-012111

SAMPLE

Lab Sample ID: SF76B

LIMS ID: 11-1419

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 17:36

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.1%
Bromobenzene	94.4%

Gasoline Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	96.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

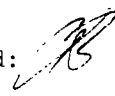
Sample ID: MW-16-012111

SAMPLE

Lab Sample ID: SF76C

LIMS ID: 11-1420

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 18:02

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	94.3%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	97.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-02-012111

SAMPLE

Lab Sample ID: SF76D

LIMS ID: 11-1421

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 18:28

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	88.6%
Bromobenzene	91.0%

Gasoline Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	94.3%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-09-012111
 SAMPLE

Lab Sample ID: SF76E
 LIMS ID: 11-1422
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 01/27/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 Event: POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Date Analyzed: 01/24/11 18:55
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	85.2%		
	Bromobenzene	87.1%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	89.0%		
	Bromobenzene	90.4%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-08-012111

SAMPLE

Lab Sample ID: SF76F

LIMS ID: 11-1423

Matrix: Groundwater

Data Release Authorized: . *ij*

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 19:21

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	92.5%
Bromobenzene	95.0%

Gasoline Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	99.4%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-01-012111

SAMPLE

Lab Sample ID: SF76G

LIMS ID: 11-1424

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 19:47

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	3.1
179601-23-1	m,p-Xylene	1.0	5.3
95-47-6	o-Xylene	1.0	9.2

Gasoline Range Hydrocarbons	0.25	0.46	GAS ID GRO
------------------------------------	-------------	-------------	---------------

BETX Surrogate Recovery

Trifluorotoluene	91.2%
Bromobenzene	95.0%

Gasoline Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	99.2%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-01-012111-D

SAMPLE

Lab Sample ID: SF76H

LIMS ID: 11-1425

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

Event: POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Date Analyzed: 01/24/11 20:13

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	3.0
179601-23-1	m,p-Xylene	1.0	5.6
95-47-6	o-Xylene	1.0	8.6

Gasoline Range Hydrocarbons	0.25	0.46	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	91.0%
Bromobenzene	94.0%

Gasoline Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	97.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF76
Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT</u>	<u>OUT</u>
MB-012411	81.2%	84.1%	0	
LCS-012411	82.5%	83.1%	0	
LCS-D-012411	94.1%	93.6%	0	
MW-15-012111	95.8%	96.3%	0	
MW-05-012111	93.1%	94.4%	0	
MW-16-012111	92.6%	94.3%	0	
MW-02-012111	88.6%	91.0%	0	
MW-09-012111	85.2%	87.1%	0	
MW-08-012111	92.5%	95.0%	0	
MW-01-012111	91.2%	95.0%	0	
MW-01-012111-D	91.0%	94.0%	0	

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-1418 to 11-1425

FORM II BETX

Page 1 for SF76

SF26 : 00216

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SF76
Matrix: Groundwater

QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-012411	82.4%	87.1%	0
LCS-012411	87.8%	86.2%	0
LCSD-012411	97.5%	97.3%	0
MW-15-012111	98.0%	99.0%	0
MW-05-012111	96.5%	96.8%	0
MW-16-012111	96.2%	97.6%	0
MW-02-012111	92.6%	94.3%	0
MW-09-012111	89.0%	90.4%	0
MW-08-012111	96.8%	99.4%	0
MW-01-012111	95.1%	99.2%	0
MW-01-012111-D	94.9%	97.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-1418 to 11-1425


FORM II TPHG

Page 1 for SF76

SF26 : 00217

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: MW14-011911
 MATRIX SPIKE

Lab Sample ID: SF26D
 LIMS ID: 11-1074
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 01/27/11

QC Report No: SF26-Floyd-Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 01/19/11
 Date Received: 01/19/11

Date Analyzed MS: 01/24/11 11:05
 MSD: 01/24/11 11:31
 Instrument/Analyst MS: PID3/MH
 MSD: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor MS: 1.0
 MSD: 1.0

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	< 1.00 U	2.68	2.10	128%	2.61	2.10	124%	2.6%
Toluene	< 1.00 U	29.7	28.7	103%	29.4	28.7	102%	1.0%
Ethylbenzene	< 1.00 U	9.66	9.20	105%	9.59	9.20	104%	0.7%
m,p-Xylene	< 1.00 U	34.1	33.8	101%	34.1	33.8	101%	0.0%
o-Xylene	< 1.00 U	14.1	14.0	101%	13.7	14.0	97.9%	2.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	100%	98.9%
Bromobenzene	99.2%	96.9%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW14-011911

MATRIX SPIKE

Lab Sample ID: SF26D

LIMS ID: 11-1074

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 01/19/11

Date Received: 01/19/11

Date Analyzed MS: 01/24/11 11:05

MSD: 01/24/11 11:31

Instrument/Analyst MS: PID3/MH

MSD: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor MS: 1.0

MSD: 1.0

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons < 0.25 U		1.05	1.00	105%	1.07	1.00	107%	1.9%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	105%	104%
Bromobenzene	102%	100%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-012411

LAB CONTROL SAMPLE

Lab Sample ID: LCS-012411

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 01/24/11 07:21

LCS D: 01/24/11 07:48

Instrument/Analyst LCS: PID3/MH

LCS D: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCS D: 1.0

Analyte	LCS	Spike		LCS Recovery	LCS D	Spike		LCS D Recovery	RPD
		Added-LCS	Added-LCS D			Added-LCS D	Added-LCS D		
Benzene	2.26	2.10	108%	2.50	2.10	119%	10.1%		
Toluene	26.3	28.7	91.6%	28.3	28.7	98.6%	7.3%		
Ethylbenzene	8.35	9.20	90.8%	8.96	9.20	97.4%	7.0%		
m,p-Xylene	29.9	33.8	88.5%	32.0	33.8	94.7%	6.8%		
o-Xylene	12.1	14.0	86.4%	13.1	14.0	93.6%	7.9%		

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCS D
Trifluorotoluene	82.5%	94.1%
Bromobenzene	83.1%	93.6%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-012411

LAB CONTROL SAMPLE

Lab Sample ID: LCS-012411

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: *ES*

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 01/24/11 07:21

LCSD: 01/24/11 07:48

Instrument/Analyst LCS: PID3/MH

LCSD: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	0.84	1.00	84.0%	0.85	1.00	85.0%	1.2%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	87.8%	97.5%
Bromobenzene	86.2%	97.3%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0124W1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Date Analyzed : 01/24/11

Matrix: WATER

Time Analyzed : 0814

Instrument ID : PID3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	LCS0124W1	LCS0124	01/24/11
02	LCSD0124W1	LCSD0124	01/24/11
03	MW11-011911	SF26A	01/24/11
04	MW10-011911	SF26B	01/24/11
05	MW07-011911	SF26C	01/24/11
06	MW14-011911	SF26D	01/24/11
07	MW14-011911	SF26DMS	01/24/11
08	MW14-011911	SF26DMSD	01/24/11
09	MW13-012011	SF50A	01/24/11
10	MW06-012011	SF50B	01/24/11
11	MW12-012011	SF50C	01/24/11
12	MW04-012011	SF50D	01/24/11
13	MW17-012011	SF50E	01/24/11
14	MW03-012011	SF50F	01/24/11
15	MW-15-012111	SF76A	01/24/11
16	MW-05-012111	SF76B	01/24/11
17	MW-16-012111	SF76C	01/24/11
18	MW-02-012111	SF76D	01/24/11
19	MW-09-012111	SF76E	01/24/11
20	MW-08-012111	SF76F	01/24/11
21	MW-01-012111	SF76G	01/24/11
22	MW-01-012111	SF76H	01/24/11
23			

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MB-012411

METHOD BLANK

Lab Sample ID: MB-012411

LIMS ID: 11-1071

Matrix: Groundwater

Data Release Authorized: 

Reported: 01/27/11

QC Report No: SF26-Floyd-Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Analyzed: 01/24/11 08:14

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	81.2%
Bromobenzene	84.1%

Gasoline Surrogate Recovery

Trifluorotoluene	82.4%
Bromobenzene	87.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

6
BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3 /RTX 502-2 PID

Calibration Date: 01/17/11

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	0.25	0.5	5	25	50		
Benzene	1424	1542	1330	1361	1410		
Toluene	1356	1416	1256	1274	1313		
Ethylbenzene	1000	1238	1119	1153	1176		
M/P-Xylene	1222	1267	1218	1255	1282		
O-Xylene	1304	1048	1075	1099	1130		
MTBE	636	382	474	475	487		
TFT (Surr)	211	200	196	206	205		
BB (Surr)	344	331	323	338	335		

Calibration Files

/chem3/pid3.i/20110117-1.b/0117a004.d
 /chem3/pid3.i/20110117-1.b/0117a005.d
 /chem3/pid3.i/20110117-1.b/0117a006.d
 /chem3/pid3.i/20110117-1.b/0117a007.d
 /chem3/pid3.i/20110117-1.b/0117a008.d
 /chem3/pid3.i/20110117-1.b/0117a009.d
 /chem3/pid3.i/20110117-1.b/0117a010.d

6
BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3 /RTX 502-2 PID

Calibration Date: 01/17/11

COMPOUND	CALIBRATION FACTORS						
	100	200	MEAN	%RSD			
Benzene	1313	1334	1388	5.74			
Toluene	1231	1252	1300	5.10			
Ethylbenzene	1100	1110	1128	6.53			
M/P-Xylene	1189	1209	1234	2.76			
O-Xylene	1057	1094	1115	7.86			
MTBE	461	474	484	8.41			
TFT (Surr)	201	202	203	2.48			
BB (Surr)	336	340	335	2.01			

6a
GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument/Det: PID3.I/RTX 502-2 FID

Project: LORA LAKE

Calibration Date: 17-JAN-2011

SDG No.: SF26-SF50-SF76

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	1071560	946278	763158	786010	861093	1005167	905544	13.6
AK Gas	1233835	1280384	1111862	1072532	1051699	1317265	1177929	9.6
NW Gas	1102315	1007232	800736	826183	901455	1016546	942411	12.6
8015Gas	1785550	1818424	1615358	1576016	1574997	1845096	1702573	7.5
\$TFT (Surr)	74.09091 67.05000	70.84091	68.52239	71.19000	68.80451	67.52247	69.71731	3.550
\$BB (Surr)	35.04545 32.12500	33.00000	32.46269	32.89000	32.60902	32.19663	32.90411	3.035

10H

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
 AK Gas nC6 - nC10
 NW Gas Toluene - Naphthalene
 8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files Analysis Time

0117a013.d 17-JAN-2011 15:51
0117a014.d 17-JAN-2011 16:17
0117a015.d 17-JAN-2011 16:44
0117a016.d 17-JAN-2011 17:10
0117a017.d 17-JAN-2011 17:36
0117a018.d 17-JAN-2011 18:02

Surr Calibration Files Analysis Time

0117a004.d 17-JAN-2011 11:55
0117a005.d 17-JAN-2011 12:21
0117a006.d 17-JAN-2011 12:48
0117a007.d 17-JAN-2011 13:14
0117a008.d 17-JAN-2011 13:40
0117a009.d 17-JAN-2011 14:06
0117a010.d 17-JAN-2011 14:32

SF26 : 00226

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID

Calibration Date: 01/24/11

Init. Calib. Date(s): 01/17/11

Calib. File: 0124A002.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Benzene	6.51	6.44	6.58	22.46	25.00	-10.2
Toluene	9.19	9.12	9.26	22.43	25.00	-10.3
Ethylbenzene	11.79	11.72	11.86	22.85	25.00	-8.6
M/P-Xylene	11.94	11.87	12.01	45.53	50.00	-8.9
O-Xylene	12.73	12.68	12.78	22.27	25.00	-10.9
MTBE	4.09	4.02	4.16	24.01	25.00	-4.0
TFT (Surr)	7.35	7.28	7.42	91.00	100.0	-9.0
BB (Surr)	14.22	14.15	14.29	91.16	100.0	-8.8

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a003.d

Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmt	NomAmt	%D
WAGas (Tol-C12)	1973646	2.18	2.50	-12.8
AKGas (C6-C10)	2553375	2.17	2.50	-13.3
NWGas (Tol-Nap)	2101085	2.23	2.50	-10.8
8015B (2MP-TMB)	3837272	2.25	2.50	-9.8

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a003.d

Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	101146	111.0	100.0	11.0
Bromoflrbenz	40782	102.8	100.0	2.8

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID

Calibration Date: 01/24/11

Init. Calib. Date(s): 01/17/11

Calib. File: 0124A015.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	6.51	6.44	6.58	23.90	25.00	-4.4
Toluene	9.20	9.12	9.26	23.44	25.00	-6.2
Ethylbenzene	11.79	11.72	11.86	23.89	25.00	-4.4
M/P-Xylene	11.94	11.87	12.01	48.13	50.00	-3.7
O-Xylene	12.73	12.68	12.78	23.47	25.00	-6.1
MTBE	4.09	4.02	4.16	24.48	25.00	-2.1
TFT (Surr)	7.35	7.28	7.42	95.60	100.0	-4.4
BB (Surr)	14.23	14.15	14.29	98.00	100.0	-2.0

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a016.d

Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	2062788	2.28	2.50	-8.9
AKGas (C6-C10)	2738005	2.32	2.50	-7.0
NWGas (Tol-Nap)	2183404	2.32	2.50	-7.3
8015B (2MP-TMB)	4026992	2.37	2.50	-5.4

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a016.d

Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	99644	110.6	100.0	10.6
Bromoflrbenz	40119	104.1	100.0	4.1

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID

Calibration Date: 01/24/11

Init. Calib. Date(s): 01/17/11

Calib. File: 0124A024.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Benzene	6.51	6.44	6.58	24.11	25.00	-3.6
Toluene	9.20	9.12	9.26	23.52	25.00	-5.9
Ethylbenzene	11.79	11.72	11.86	24.75	25.00	-1.0
M/P-Xylene	11.94	11.87	12.01	48.91	50.00	-2.2
O-Xylene	12.73	12.68	12.78	23.72	25.00	-5.1
MTBE	4.09	4.02	4.16	24.63	25.00	-1.5
TFT (Surr)	7.36	7.28	7.42	94.71	100.0	-5.3
BB (Surr)	14.23	14.15	14.29	97.63	100.0	-2.4

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a025.d

Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	2059428	2.27	2.50	-9.0
AKGas (C6-C10)	2706776	2.30	2.50	-8.1
NWGas (Tol-Nap)	2187214	2.32	2.50	-7.2
8015B (2MP-TMB)	3973390	2.33	2.50	-6.6

* Surrogate areas are subtracted from Total Area
 <- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a025.d

Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	95676	111.1	100.0	11.1
Bromoflrbenz	66316	106.6	100.0	6.6

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID

Calibration Date: 01/24/11

Init. Calib. Date(s): 01/17/11

Calib. File: 0124A035.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	6.51	6.44	6.58	23.71	25.00	-5.2
Toluene	9.20	9.12	9.26	22.85	25.00	-8.6
Ethylbenzene	11.79	11.72	11.86	23.84	25.00	-4.6
M/P-Xylene	11.94	11.87	12.01	47.09	50.00	-5.8
O-Xylene	12.73	12.68	12.78	23.16	25.00	-7.4
MTBE	4.09	4.02	4.16	24.65	25.00	-1.4
TFT (Surr)	7.36	7.28	7.42	89.23	100.0	-10.8
BB (Surr)	14.23	14.15	14.29	96.98	100.0	-3.0

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a036.d

Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	2108402	2.33	2.50	-6.9
AKGas (C6-C10)	2687426	2.28	2.50	-8.7
NWGas (Tol-Nap)	2231349	2.37	2.50	-5.3
8015B (2MP-TMB)	3978617	2.34	2.50	-6.5

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 17-JAN-20110

Project: LORA LAKE

CCal Date: 24-JAN-2011

SDG No.: SF26-SF50-SF76

Lab File Name: 0124a036.d

Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	98006	107.5	100.0	7.5
Bromoflrbenz	40773	104.0	100.0	4.0

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project: LORA LAKE

Instrument ID: PID3

GC Detector: RTX 502-2 PID

Run Date: 01/24/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT							
S1 : 7.35		S2 : 14.22					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
=====	=====	=====	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	01/24/11				
02	RT+BCAL 1	RT+BCAL 1	01/24/11	0629			
03	GCAL 1	GCAL 1	01/24/11	0655	7.35	14.22	
04	LCS0124W1	LCS0124	01/24/11	0721	7.35	14.22	
05	LCSD0124W1	LCSD0124	01/24/11	0748	7.35	14.23	
06	MB0124W1	MB0124	01/24/11	0814	7.36	14.23	
07	ZZZZZ	ZZZZZ	01/24/11	0854	7.35	14.23	
08	MW11-011911	SF26A	01/24/11	0920	7.35	14.23	
09	MW10-011911	SF26B	01/24/11	0947	7.35	14.23	
10	MW07-011911	SF26C	01/24/11	1013	7.35	14.23	
11	MW14-011911	SF26D	01/24/11	1039	7.35	14.23	
12	MW14-011911	SF26DMS	01/24/11	1105	7.35	14.23	
13	MW14-011911	SF26DMSD	01/24/11	1131	7.35	14.23	
14	ZZZZZ	ZZZZZ	01/24/11	1158			
15	BCAL 2	BCAL 2	01/24/11	1224	7.35	14.23	
16		GCAL 2	01/24/11	1250	7.35	14.23	
17	MW13-012011	SF50A	01/24/11	1316	7.35	14.23	
18	MW06-012011	SF50B	01/24/11	1342	7.35	14.23	
19	MW12-012011	SF50C	01/24/11	1406	7.36	14.23	
20	MW04-012011	SF50D	01/24/11	1432	7.36	14.23	
21	MW17-012011	SF50E	01/24/11	1459	7.35	14.23	
22	MW03-012011	SF50F	01/24/11	1525	7.35	14.23	
23	ZZZZZ	ZZZZZ	01/24/11	1551			
24	BCAL 3	BCAL 3	01/24/11	1617	7.36	14.23	
25	GCAL 3	GCAL 3	01/24/11	1644	7.35	14.23	
26	MW-15-012111	SF76A	01/24/11	1710	7.35	14.23	
27	MW-05-012111	SF76B	01/24/11	1736	7.36	14.23	
28	MW-16-012111	SF76C	01/24/11	1802	7.36	14.23	
29	MW-02-012111	SF76D	01/24/11	1828	7.36	14.23	
30	MW-09-012111	SF76E	01/24/11	1855	7.35	14.23	
31	MW-08-012111	SF76F	01/24/11	1921	7.36	14.23	
32	MW-01-012111	SF76G	01/24/11	1947	7.36	14.23	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project: LORA LAKE

Instrument ID: PID3

GC Detector: RTX 502-2 PID

Run Date: 01/24/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT							
S1 : 7.35		S2 : 14.22					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
=====	=====	=====	=====	=====	=====	=====	=====
01 MW-01-012111	SF76H	01/24/11	2013	7.36		14.23	
02 ZZZZZ	ZZZZZ	01/24/11	2039				
03 BCAL 4	BCAL 4	01/24/11	2106	7.36		14.23	
04 GCAL 4	GCAL 4	01/24/11	2132	7.36		14.22	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)

S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SF26-SF50-SF76

Project No.: LORA LAKE

Instrument ID: PID3

GC Detector: RTX 502-2 PID

Run Date: 01/17/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT							
S1 : 7.36		S2 : 14.23					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #		
=====				=====		=====	
01	RINSE	01/17/11	1037				
02	RT+BCAL 1	01/17/11	1103	7.35	14.23		
03	RINSE	01/17/11	1129				
04	BETX .25	01/17/11	1155	7.36	14.23		
05	BETX .5	01/17/11	1221	7.35	14.23		
06	BETX 5	01/17/11	1248	7.35	14.23		
07	BETX 25	01/17/11	1314	7.35	14.23		
08	BETX 50	01/17/11	1340	7.35	14.23		
09	BETX 100	01/17/11	1406	7.35	14.23		
10	BETX 200	01/17/11	1432	7.36	14.23		
11	BETX ICV	01/17/11	1459	7.35	14.23		
12	RINSE	01/17/11	1525				
13	GAS .1	01/17/11	1551	7.35	14.23		
14	GAS .25	01/17/11	1617	7.35	14.23		
15	GAS 1	01/17/11	1644	7.35	14.23		
16	GAS 2.5	01/17/11	1710	7.35	14.23		
17	GAS 5	01/17/11	1736	7.36	14.23		
18	GAS 20	01/17/11	1802	7.36	14.22		
19	RINSE	01/17/11	1828				
20	GAS ICV	01/17/11	1854	7.35	14.23		

QC LIMITS
S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

**Metals Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd-Snider

PROJECT: Lora Lake Apts RI

SDG: SF26

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
MW11-011911	SF26A	11-1071	
PBW	SF26MB1	11-1071	
LCSW	SF26MB1SPK	11-1071	
MW10-011911	SF26B	11-1072	
MW07-011911	SF26C	11-1073	
MW14-011911	SF26D	11-1074	
MW14-011911D	SF26DDUP	11-1074	
MW14-011911S	SF26DSPK	11-1074	
MW13-012011	SF50A	11-1198	
MW06-012011	SF50B	11-1199	
MW12-012011	SF50C	11-1200	
MW04-012011	SF50D	11-1201	
MW03-012011	SF50F	11-1203	
MW-05-012111	SF76B	11-1419	
MW-02-012111	SF76D	11-1421	
MW-09-012111	SF76E	11-1422	
MW-08-012111	SF76F	11-1423	
MW-01-012111	SF76G	11-1424	
MW-01-012111-D	SF76H	11-1425	

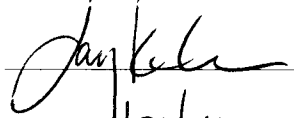
Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: 

Name: Jay Kuhn

Date: 1/31/11

Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW11-011911
SAMPLE

Lab Sample ID: SF26A
LIMS ID: 11-1071
Matrix: Groundwater
Data Release Authorized:
Reported: 01/31/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11




Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/28/11	7440-38-2	Arsenic	0.2	0.2	U
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW10-011911
SAMPLE

Lab Sample ID: SF26B
LIMS ID: 11-1072
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/31/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.6	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Sample ID: MW07-011911

Page 1 of 1

SAMPLE

Lab Sample ID: SF26C


QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1073

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 01/19/11

Reported: 01/31/11

Date Received: 01/19/11


Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.9	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW14-011911
SAMPLE

Lab Sample ID: SF26D
LIMS ID: 11-1074
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/31/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.4	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: MW13-012011

SAMPLE

Lab Sample ID: SF50A


QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1198

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 01/20/11

Reported: 01/31/11

Date Received: 01/20/11


Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.3	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW06-012011
 SAMPLE

Lab Sample ID: SF50B
 LIMS ID: 11-1199
 Matrix: Water
 Data Release Authorized: 
 Reported: 01/31/11

QC Report No: SF50-Floyd/Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 01/20/11
 Date Received: 01/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/28/11	7440-38-2	Arsenic	0.2	0.6	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW12-012011

SAMPLE

Lab Sample ID: SF50C

LIMS ID: 11-1200

Matrix: Water

Data Release Authorized: 

Reported: 01/31/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.4	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW04-012011

SAMPLE

Lab Sample ID: SF50D

LIMS ID: 11-1201

Matrix: Water

Data Release Authorized: 

Reported: 01/31/11

QC Report No: SF50-Floyd/Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 01/20/11

Date Received: 01/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.9	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: MW03-012011

SAMPLE

Lab Sample ID: SF50F


QC Report No: SF50-Floyd/Snider

LIMS ID: 11-1203

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 01/20/11

Reported: 01/31/11

Date Received: 01/20/11

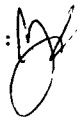
Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.5	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW-05-012111
SAMPLE

Lab Sample ID: SF76B
 LIMS ID: 11-1419
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 01/31/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	5.4	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

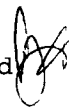
Sample ID: MW-02-012111

SAMPLE

Lab Sample ID: SF76D

LIMS ID: 11-1421

Matrix: Groundwater

Data Release Authorized 

Reported: 01/31/11

QC Report No: SF76-Floyd-Snider

Project: Lora Lakes Apts RI

POS-LLA

Date Sampled: 01/21/11

Date Received: 01/21/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.2	U
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW-09-012111
SAMPLE

Lab Sample ID: SF76E
 LIMS ID: 11-1422
 Matrix: Groundwater
 Data Release Authorized:
 Reported: 01/31/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11




Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.3	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW-08-012111
SAMPLE

Lab Sample ID: SF76F
 LIMS ID: 11-1423
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 01/31/11

QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.6	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW-01-012111
SAMPLE

Lab Sample ID: SF76G
 LIMS ID: 11-1424
 Matrix: Groundwater
 Data Release Authorized:
 Reported: 01/31/11




QC Report No: SF76-Floyd-Snider
 Project: Lora Lakes Apts RI
 POS-LLA
 Date Sampled: 01/21/11
 Date Received: 01/21/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	11.7	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-01-012111-D
SAMPLE

Lab Sample ID: SF76H
LIMS ID: 11-1425
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/31/11


QC Report No: SF76-Floyd-Snider
Project: Lora Lakes Apts RI
POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	11.9	
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW14-011911
MATRIX SPIKE

Lab Sample ID: SF26D
 LIMS ID: 11-1074
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 01/31/11

QC Report No: SF26-Floyd-Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 01/19/11
 Date Received: 01/19/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.430	26.5	25.0	104%	
Lead	200.8	1.00 U	24.3	25.0	97.2%	

Reported in $\mu\text{g/L}$

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: MW14-011911

DUPLICATE

Lab Sample ID: SF26D


QC Report No: SF26-Floyd-Snyder

LIMS ID: 11-1074

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 01/19/11

Reported: 01/31/11

Date Received: 01/19/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.4	0.5	22.2%	+/- 0.2	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L

Reported in $\mu\text{g/L}$

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SF26LCS


QC Report No: SF26-Floyd-Snider

LIMS ID: 11-1071

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 01/31/11

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	26.7	25.0	107%	
Lead	200.8	26	25	104%	


Reported in $\mu\text{g/L}$

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SF26MB
LIMS ID: 11-1071
Matrix: Groundwater
Data Release Authorized: 
Reported: 01/31/11

QC Report No: SF26-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/26/11	200.8	01/27/11	7440-38-2	Arsenic	0.2	0.2	U
200.8	01/26/11	200.8	01/27/11	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

CLIENT: Floyd-Snyder
PROJECT: Lora Lake Apts RI
SDG: SF26

UNITS:ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS012781	50.0	49.73	99.5	50.0	49.39	98.8	50.12	100.2	49.90	99.8	50.24	100.5	49.91	99.8
Lead	PB	PMS	MS012781	50.0	48.48	97.0	50.0	49.11	98.2	45.81	91.6	48.09	96.2	47.03	94.1	47.48	95.0

Control Limits: Mercury 80-120; Other Metals 90-110



Calibration Verification

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	PMS	MS012781	50.0	49.71	99.4	48.93	97.9	49.10	98.2	48.71	97.4	48.50	97.0		
Lead	PB	PMS	MS012781	50.0	46.53	93.1	45.23	90.5	45.84	91.7	45.99	92.0	45.96	91.9		

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification



CLIENT: Floyd-Snyder
 PROJECT: Lora Lake Apts RI
 SDG: SF26

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS012881	50.0	49.37	98.7	50.0	49.24	98.5	49.70	99.4	50.17	100.3	49.88	99.8		

Control Limits: Mercury 80-120; Other Metals 90-110

SF 26 : 092005

CRDL Standard

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	PMS	MS012781	0.2	0.2	0.17	85.0										
Lead	PB	PMS	MS012781	1.0	1.0	0.98	98.0										
Arsenic	AS	PMS	MS012881	0.2	0.2	0.19	95.0										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks



CLIENT: Floyd-Snider

PROJECT: Lora Lake Apts RI

SDG: SF26

UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5	C
Arsenic	AS PMS	MS012781	10.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	U
Lead	PB PMS	MS012781	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	U

Calibration Blanks



CLIENT: Floyd-Snider
 PROJECT: Lora Lake Apts RI
 SDG: SF26

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Arsenic	AS	PMS	MS012781	10.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	U
Lead	PB	PMS	MS012781	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	U

Calibration Blanks



CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26

UNITS: ug/L

ANALYTE	AS	PMS	EL METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5	C
Arsenic				MS012881	10.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	U

ICP Interference Check Sample



CLIENT: Floyd-Snyder

ICS SOURCE: I.V.

PROJECT: Lora Lake Apts RI

RUNID: MS012781

SDG: SF26

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Antimony			0.1	0.1							
Arsenic		20	0.0	19.6	98.0						
Cadmium		20	0.1	19.8	99.0						
Chromium		20	0.6	20.5	102.5						
Cobalt		20	0.0	20.2	101.0						
Copper		20	0.5	20.4	102.0						
Manganese		20	0.3	20.0	100.0						
Molybdenum	400	400	407.9	420.0	105.0						
Nickel		20	0.6	20.7	103.5						
Silver		20	0.0	19.2	96.0						
Vanadium			0.0	-0.4							
Zinc		20	5.0	24.0	120.0						

SF26 : 00270

ICP Interference Check Sample



CLIENT: Floyd-Snyder

ICS SOURCE: I.V.

PROJECT: Lora Lake Apts RI

RUNID: MS012881

SDG: SF26

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	20000	20000	18984.5	18490.8	92.5						
Antimony			0.1	0.1							
Arsenic	20	20	0.0	19.6	98.0						
Cadmium	20	20	0.0	19.3	96.5						
Calcium	20000	20000	19922.2	20080.6	100.4						
Chromium	20	20	0.6	21.0	105.0						
Cobalt	20	20	0.1	20.2	101.0						
Copper	20	20	0.6	20.6	103.0						
Iron	20000	20000	20208.4	20380.2	101.9						
Magnesium	20000	20000	18721.6	18180.9	90.9						
Manganese	20	20	0.4	20.4	102.0						
Molybdenum	400	400	418.8	425.0	106.3						
Nickel	20	20	0.7	21.1	105.5						
Potassium	20000	20000	19555.9	19231.3	96.2						
Silver	20	20	0.0	18.6	93.0						
Sodium	20000	20000	19472.8	18955.8	94.8						
Vanadium			0.0	-0.4							
Zinc	20	20	5.2	24.1	120.5						

SF 26 : 00271

IDLs and ICP Linear Ranges



CLIENT: Floyd-Snider

PROJECT: Lora Lake Apts RI

SDG: SF26

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	PMS	PE ELAN 6000 MS	0.00		10	0.2	4/1/2010		
Lead	PB	PMS	PE ELAN 6000 MS	0.00		3	1.0	4/1/2010		

Preparation Log



CLIENT: Floyd-Snider

ANALYSIS METHOD: PMS

PROJECT: Lora Lake Apts RI

ARI PREP CODE: REN

SDG: SF26

PREPDATE: 1/26/2011

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
MW11-011911	SF26A	0.000	50.0	25.0
MW10-011911	SF26B	0.000	50.0	25.0
MW07-011911	SF26C	0.000	50.0	25.0
MW14-011911	SF26D	0.000	50.0	25.0
MW14-011911D	SF26DDUP	0.000	50.0	25.0
MW14-011911S	SF26DSPK	0.000	50.0	25.0
PBW	SF26MB1	0.000	50.0	25.0
LCSW	SF26MB1SPK	0.000	50.0	25.0
MW13-012011	SF50A	0.000	50.0	25.0
MW06-012011	SF50B	0.000	50.0	25.0
MW12-012011	SF50C	0.000	50.0	25.0
MW04-012011	SF50D	0.000	50.0	25.0
MW03-012011	SF50F	0.000	50.0	25.0
MW-05-012111	SF76B	0.000	50.0	25.0
MW-02-012111	SF76D	0.000	50.0	25.0
MW-09-012111	SF76E	0.000	50.0	25.0
MW-08-012111	SF76F	0.000	50.0	25.0
MW-01-012111	SF76G	0.000	50.0	25.0
MW-01-012111-D	SF76H	0.000	50.0	25.0

Analysis Run Log

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS012781 METHOD: PMS

START DATE: 1/27/2011

END DATE: 1/27/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
S0		1.00	10560																														X	
S1		1.00	11040					X																									X	
S2		1.00	11120					X																									X	
S3		1.00	11190					X																									X	
S4		1.00	11270					X																									X	
ZZZZZZ	Rinse Sampl	1.00	11350																														X	
ICV	MICV	1.00	11420					X																									X	
ICB	ICB	1.00	11500					X																									X	
CCV	MCCV1	1.00	11570					X																									X	
CCB	CCB1	1.00	12040					X																									X	
CRI	MCRI	1.00	12110					X																									X	
ICSA	ICSAI	1.00	12180					X																									X	
ICSAB	ICSABI	1.00	12260					X																									X	
CCV	MCCV2	1.00	12330					X																									X	
CCB	CCB2	1.00	12410					X																									X	
ZZZZZZ	SF27MB1	2.00	12490																															
ZZZZZZ	SF27MB2	2.00	12550																															
ZZZZZZ	SF27MB1SPK	2.00	13020																															
ZZZZZZ	SF27MB2SPK	2.00	13080																															
ZZZZZZ	SF25A	5.00	13150																															
ZZZZZZ	SF25B	5.00	13220																															
ZZZZZZ	SF25H	5.00	13280																															
ZZZZZZ	SF25I	5.00	13350																															
ZZZZZZ	SF49A	2.00	13410																															
ZZZZZZ	SF49B	2.00	13480																															
CCV	MCCV3	1.00	13550																															X
CCB	CCB3	1.00	14020																															X
ZZZZZZ	SF49MB1	2.00	14100																															
ZZZZZZ	SF49MB2	2.00	14170																															
ZZZZZZ	SF49MB1SPK	2.00	14240																															
ZZZZZZ	SF49MB2SPK	2.00	14310																															
ZZZZZZ	SF49HDUP	2.00	14370																															
ZZZZZZ	SF49H	2.00	14440																															
ZZZZZZ	SF49HSPK	2.00	14500																															
ZZZZZZ	SF49PDUP	2.00	14570																															



Analysis Run Log

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 1/27/2011

SDG: SF26

RUNID: MS012781

METHOD: PMS

END DATE: 1/27/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
ZZZZZZ	SF49P		2.00 15030																															
ZZZZZZ	SF49BSPK		2.00 15100																															
CCV	MCCV4		1.00 15160					X																										X
CCB	CCB4		1.00 15240					X																										X
ZZZZZZ	SF49D		2.00 15310																															
ZZZZZZ	SF49E		2.00 15370																															
ZZZZZZ	SF49F		2.00 15440																															
ZZZZZZ	SF49G		2.00 15510																															
ZZZZZZ	SF49I		2.00 15570																															
ZZZZZZ	SF49J		2.00 16040																															
ZZZZZZ	SF49K		2.00 16100																															
ZZZZZZ	SF49L		2.00 16170																															
ZZZZZZ	SF49M		2.00 16240																															
ZZZZZZ	SF49N		2.00 16300																															
CCV	MCCV5		1.00 16370					X																										X
CCB	CCB5		1.00 16440					X																										X
ZZZZZZ	SF49A		2.00 16510																															
ZZZZZZ	SF49B		2.00 16580																															
ZZZZZZ	SF49D		2.00 17040																															
ZZZZZZ	SF49E		2.00 17110																															
ZZZZZZ	SF49F		2.00 17170																															
ZZZZZZ	SF49G		2.00 17240																															
ZZZZZZ	SF49I		2.00 17300																															
ZZZZZZ	SF49J		2.00 17370																															
ZZZZZZ	SF49O		2.00 17430																															
ZZZZZZ	SF49Q		2.00 17500																															
CCV	MCCV6		1.00 17570					X																										X
CCB	CCB6		1.00 18040					X																										X
ZZZZZZ	SF49MB1		2.00 18110																															
ZZZZZZ	SF49MB2		2.00 18180																															
ZZZZZZ	SF49MB1SPK		2.00 18240																															
ZZZZZZ	SF49MB2SPK		2.00 18310																															
ZZZZZZ	SF49HDUP		2.00 18370																															
ZZZZZZ	SF49H		2.00 18440																															
ZZZZZZ	SF49HSPK		2.00 18500																															



Analysis Run Log

CLIENT: Floyd-Snider
 PROJECT: Lora Lake Apts RI
 SDG: SF26
 INSTRUMENT ID: PE ELAN 6000 MS
 RUNID: MS012781 METHOD: PMS
 START DATE: 1/27/2011
 END DATE: 1/27/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
CCV	MCCV10	1.00	22500					X																	X								
CCB	CCB10	1.00	22570					X																	X								



Analysis Run Log

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS012881 METHOD: PMS

START DATE: 1/28/2011

END DATE: 1/28/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN				
S0	S0	1.00	09090																																		
S1	S1	1.00	09170																																		
S2	S2	1.00	09250																																		
S3	S3	1.00	09320																																		
S4	S4	1.00	09400																																		
ZZZZZZ	Rinse Sampl	1.00	09480																																		
S0	S0	1.00	09560																																		
ZZZZZZ	ZZZZZZ	1.00	10040																																		
ICV	MICV	1.00	10120																																		
ICB	ICB	1.00	10190																																		
CCV	MCCV1	1.00	10270																																		
CCB	CCB1	1.00	10340																																		
ZZZZZZ	ZZZZZZ	1.00	10420																																		
CRI	MCRI	1.00	10500																																		
ICSA	ICSAI	1.00	10580																																		
ICSAB	ICSABI	1.00	11060																																		
CCV	MCCV2	1.00	11140																																		
CCB	CCB2	1.00	11210																																		
CCB	CCB2	1.00	11290																																		
ZZZZZZ	IDL1	1.00	11370																																		
ZZZZZZ	IDL2	1.00	11440																																		
ZZZZZZ	IDL3	1.00	11510																																		
ZZZZZZ	IDL4	1.00	11580																																		
ZZZZZZ	IDL5	1.00	12060																																		
ZZZZZZ	IDL6	1.00	12130																																		
ZZZZZZ	IDL7	1.00	12200																																		
ZZZZZZ	IDL8	1.00	12270																																		
ZZZZZZ	IDL9	1.00	12340																																		
ZZZZZZ	IDL10	1.00	12420																																		
CCV	MCCV3	1.00	12490																																		
CCB	CCB3	1.00	12570																																		
ZZZZZZ	SF97MB	2.00	13060																																		
ZZZZZZ	SF97MBSPK	2.00	13130																																		
ZZZZZZ	SF97A	2.00	13200																																		
ZZZZZZ	SF97B	2.00	13270																																		



Analysis Run Log

CLIENT: Floyd-Snyder

PROJECT: Lora Lake Apts RI

SDG: SF26

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS012881 METHOD: PMS

START DATE: 1/28/2011

END DATE: 1/28/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
ZZZZZZ	SF49HDUP	2.00	13360																																	
ZZZZZZ	SF49H	2.00	13430																																	
ZZZZZZ	SF49HSPK	2.00	13490																																	
ZZZZZZ	SF490	2.00	13560																																	
MW11-011911	SF26A	2.00	14030																																	
MW06-012011	SF50B	2.00	14100																																	
CCV	MCCV4	1.00	14170																																	
CCB	CCB4	1.00	14250																																	

**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: SF26, SF50, SF76

SAMPLE RESULTS-CONVENTIONALS
SF26-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized:
Reported: 01/24/11

A handwritten signature in black ink, appearing to be 'JS' or similar, written over the 'Data Release Authorized' line.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Client ID: MW11-011911
ARI ID: 11-1071 SF26A

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/19/11 011911#1	EPA 150.1	std units	0.01	6.18
Total Suspended Solids	01/21/11 012111#1	EPA 160.2	mg/L	1.1	< 1.1 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF26-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized:
Reported: 01/24/11

A handwritten signature in black ink, appearing to be 'J. Snyder', written over the 'Data Release Authorized' line.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Client ID: MW10-011911
ARI ID: 11-1072 SF26B

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/19/11 011911#1	EPA 150.1	std units	0.01	6.72
Total Suspended Solids	01/21/11 012111#1	EPA 160.2	mg/L	1.1	< 1.1 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF26-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 01/24/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Client ID: MW07-011911
ARI ID: 11-1073 SF26C

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/19/11 011911#1	EPA 150.1	std units	0.01	6.77
Total Suspended Solids	01/21/11 012111#1	EPA 160.2	mg/L	1.1	5.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF26-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 01/24/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Client ID: MW14-011911
ARI ID: 11-1074 SF26D

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/19/11 011911#1	EPA 150.1	std units	0.01	6.48
Total Suspended Solids	01/21/11 012111#1	EPA 160.2	mg/L	1.1	2.2

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SF26-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 01/24/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/19/11
Date Received: 01/19/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
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ARI ID: SF26A Client ID: MW11-011911

pH	EPA 150.1	01/19/11	std units	6.18	6.18	0.00
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pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SF26-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized:
Reported: 01/24/11

A handwritten signature in black ink, appearing to be 'Floyd Snyder', written over the 'Data Release Authorized:' line.


Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	01/19/11	std units	7.01	7.00	0.01
Total Suspended Solids EPA 160.2	ICVL	01/21/11	mg/L	49.1	50.0	98.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SF26-Floyd-Snider




Matrix: Groundwater
Data Release Authorized: 
Reported: 01/24/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Suspended Solids	EPA 160.2	01/21/11	mg/L	< 1.0 U	

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11


Client ID: MW13-012011
ARI ID: 11-1198 SF50A

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	5.98
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	1.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Client ID: MW06-012011
ARI ID: 11-1199 SF50B

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	5.92
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	3.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'Floyd/Snider', written over the 'Data Release Authorized' text.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Client ID: MW12-012011
ARI ID: 11-1200 SF50C

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	5.94
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.0	1.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized:
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'Floyd/Snider', written over the 'Data Release Authorized:' line.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Client ID: MW04-012011
ARI ID: 11-1201 SF50D

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	6.21
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	2.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'F. Snider', written over the 'Data Release Authorized' text.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11


Client ID: MW17-012011
ARI ID: 11-1202 SF50E

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	7.62
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	9.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11


Client ID: MW03-012011
ARI ID: 11-1203 SF50F

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/20/11 012011#1	EPA 150.1	std units	0.01	6.35
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	< 1.1 U

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 01/20/11
Date Received: 01/20/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SF50A Client ID: MW13-012011						
pH	EPA 150.1	01/20/11	std units	5.98	5.99	0.01
Total Suspended Solids	EPA 160.2	01/26/11	mg/L	1.1	2.8	87.2%

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SF50-Floyd/Snider



Matrix: Water
Data Release Authorized
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'JF' or similar, written over the 'Data Release Authorized' text.


Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	01/20/11	std units	6.98	7.00	0.02
Total Suspended Solids EPA 160.2	ICVL	01/26/11	mg/L	49.4	50.0	98.8%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SF50-Floyd/Snider




Matrix: Water
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Suspended Solids	EPA 160.2	01/26/11	mg/L	< 1.0 U	

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Client ID: MW-15-012111
ARI ID: 11-1418 SF76A

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	7.71
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.8	48.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: *AS*
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11


Client ID: MW-05-012111
ARI ID: 11-1419 SF76B

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.38
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	2.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Client ID: MW-16-012111
ARI ID: 11-1420 SF76C

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	7.01
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.8	32.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'Floyd Snider', written over the 'Data Release Authorized' text.

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11


Client ID: MW-02-012111
ARI ID: 11-1421 SF76D

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.35
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	< 1.1 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Client ID: MW-09-012111
ARI ID: 11-1422 SF76E

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.20
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.0	< 1.0 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized
Reported: 01/27/11

A handwritten signature in black ink, appearing to be 'Floyd Snider', written over the 'Data Release Authorized' text.

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11


Client ID: MW-08-012111
ARI ID: 11-1423 SF76F

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.01
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	< 1.1 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snyder



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

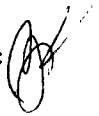
Client ID: MW-01-012111
ARI ID: 11-1424 SF76G

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.95
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	5.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11


Client ID: MW-01-012111-D
ARI ID: 11-1425 SF76H

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/21/11 012111#1	EPA 150.1	std units	0.01	6.99
Total Suspended Solids	01/26/11 012611#1	EPA 160.2	mg/L	1.1	10.5

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11


Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: 01/21/11
Date Received: 01/21/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SF76A Client ID: MW-15-012111						
pH	EPA 150.1	01/21/11	std units	7.71	7.70	0.01

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized 
Reported: 01/27/11


Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	01/21/11	std units	7.00	7.00	0.00
Total Suspended Solids EPA 160.2	ICVL	01/26/11	mg/L	49.4	50.0	98.8%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SF76-Floyd-Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 01/27/11

Project: Lora Lakes Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Suspended Solids	EPA 160.2	01/26/11	mg/L	< 1.0 U	

**SIM Volatile Raw Data
Initial Calibration Notes and Raw Data**

ARI Job ID: SF26, SF50, SF76



VOA Analyst Notes / Corrective Action Log

ARI Project ID: NT7 SimCal Client ID: _____

ARI SOP: ~~404S~~(Gas) ~~410S~~(BTEX) ~~430S~~(VPH) ~~700S~~(82600) 703S(SIM) ~~706S~~(524.2) ~~710S~~(RSK-175)

Parameter(s): 5/11/10 VOA

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: 12/3/10 Analysis Start Date: _____

pH ≤ 2.0	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	<u>YES</u> / NO / NA	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	YES / <u>NO</u>	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	YES / <u>NO</u> / NA	Q flag applied?	YES / <u>NO</u> / NA
Manual Integrations for ICal?	YES / <u>NO</u>	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / <u>NA</u>		

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):

benzene, TCE 7 point limit

Additional Details on Reverse: Yes / No

Analyst: _____ *PC* Date: 12/3/10

Reviewer: _____ *[Signature]* Date: 12/13/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 12/13/10 Analysis: 5700 VMS Analyst: NIS
 GC Program: VC Column No: 850322 Column Type: RTX VMS
 Instrument Tune (.U or .CT.): 6861213 (121310001) EM Voltage: 2624
 Calibration File: 10001213 (121310012) Curve Date: 12/13/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW665-1</u>	<u>VW665-4</u>	<u>VW667-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/13DEC2010.b

Time	Filename	LabID	ClientID	WT
1	0592	121310001.d	BFB1213	BFB1213 0.00
2	0627	121310002.d	CC1213	1 5.32 356244 5.75 546696
3	0649	121310003.d	CC1213	1 5.32 298668 5.76 471627
4	0712	121310004.d	LCB1213	1 5.33 311667 5.76 482012
5	0734	121310005.d	LCSB1213	1 5.32 283895 5.76 444792
6	0787	121310006.d	MB1213	1 5.33 314442 5.75 466433
7	0828	121310007.d	LCB1213	1 5.32 349762 5.76 531487
8	0950	121310008.d	00201213	VSTD 20 1 5.31 352406 5.76 535575
9	1016	121310009.d	00801213	VSTD 50 1 5.32 353232 5.76 533424
10	1041	121310010.d	01001213	VSTD 100 1 5.32 342414 5.75 526938
11	1107	121310011.d	03001213	VSTD 500 1 5.31 345239 5.76 523532
12	1133	121310012.d	10001213	VSTD 1000 1 5.32 345824 5.76 524155
13	1158	121310013.d	20001213	VSTD 2000 1 5.32 343894 5.75 526079
14	1224	121310014.d	40001213	VSTD 4000 1 5.31 326146 5.76 512975
15	1250	121310015.d	ICV1213	ICV1000 1 5.32 325543 5.76 513107

PC 12/14/10

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.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Batch File: /chem1/nt7.i/13DEC2010.b
Inst ID: nt7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	121310008	121310009	121310010	121310011	121310012	121310013	121310014	121310015				
INJ. DATE:	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010	13-DEC-2010		
INJ. TIME:	09:50	10:16	10:41	11:07	11:33	11:58	12:24	12:50				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Vinyl Chloride	1.563	1.565	1.564	1.563	1.565	1.554	1.563	1.553	1.565	1.350-1.775	1.561	0.005
2 1,1-Dichloroethene	2.516	2.515	2.516	2.517	2.515	2.509	2.510	2.514	2.515	2.298-2.723	2.514	0.003
175 Trans-1,2-Dichloroethe	3.290	3.294	3.295	3.296	3.294	3.289	3.290	3.288	3.294	3.076-3.501	3.292	0.003
177 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.980	3.767-4.193	+++++	+++++
3 cis-1,2-dichloroethene	4.439	4.444	4.445	4.440	4.438	4.438	4.439	4.438	4.438	4.218-4.643	4.440	0.003
6 Benzene	5.210	5.212	5.212	5.210	5.211	5.212	5.210	5.211	5.211	4.981-5.442	5.211	0.001
* 4 Pentafluorobenzene	5.315	5.316	5.316	5.315	5.315	5.316	5.314	5.315	5.315	5.102-5.528	5.315	0.001
\$ 5 da-1,2-Dichloroethane	5.324	5.325	5.325	5.324	5.325	5.325	5.324	5.325	5.325	5.112-5.537	5.325	0.001
176 1,2-Dichloroethane	5.381	5.382	5.382	5.381	5.382	5.382	5.381	5.381	5.382	5.169-5.594	5.382	0.001
8 Trichloroethene	5.709	5.710	5.720	5.709	5.710	5.709	5.709	5.710	5.710	5.480-5.941	5.711	0.004
* 7 1,4-Difluorobenzene	5.755	5.756	5.755	5.755	5.756	5.755	5.755	5.756	5.756	5.526-5.986	5.755	0.001
\$ 9 da-Toluene	6.902	6.903	6.904	6.902	6.902	6.903	6.902	6.902	6.902	6.672-7.132	6.902	0.001
10 Tetrachloroethene	7.270	7.271	7.272	7.258	7.259	7.260	7.259	7.258	7.258	7.028-7.489	7.263	0.006
11 1,1,2,2-Tetrachloroeth	9.457	9.458	9.447	9.445	9.446	9.447	9.445	9.445	9.446	9.215-9.676	9.449	0.005

Reviewer 1 _____ Date: 12/13/10
Reviewer 2 _____ Date: 12/13/10

STANDARD : 00000000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2010 09:50
 End Cal Date : 13-DEC-2010 12:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Cal Date : 13-Dec-2010 13:15 paul
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/nt7.i/13DEC2010.b/121310008.d
 Level 2: /chem1/nt7.i/13DEC2010.b/121310009.d
 Level 3: /chem1/nt7.i/13DEC2010.b/121310010.d
 Level 4: /chem1/nt7.i/13DEC2010.b/121310011.d
 Level 5: /chem1/nt7.i/13DEC2010.b/121310012.d
 Level 6: /chem1/nt7.i/13DEC2010.b/121310013.d
 Level 7: /chem1/nt7.i/13DEC2010.b/121310014.d

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	500.000 Level 4	1000.000 Level 5	2000.000 Level 6	4000.000 Level 7	RRF	% RSD
1 Vinyl Chloride	1.15222 0.76127	1.08829	0.92803	0.86679	0.75588	0.78632		0.90554	17.674
2 1,1-Dichloroethene	0.80404 0.54238	0.79319	0.66017	0.62685	0.53558	0.55845		0.64581	17.633
175 Trans-1,2-Dichloroethene	0.91131 0.60058	0.89833	0.71627	0.69501	0.58940	0.61791		0.71840	18.913
177 Acrylonitrile	++++ ++++	++++	++++	++++	++++	++++		++++	++++ <-
3 cis-1,2-dichloroethene	0.93812 0.62689	0.87518	0.74930	0.71884	0.61472	0.63898		0.73743	17.216
6 Benzene	2.74341 1.68486	2.55695	2.05447	1.98052	1.67885	1.74352		2.06323	20.813 <-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2010 09:50
 End Cal Date : 13-DEC-2010 12:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Cal Date : 13-Dec-2010 13:15 paul
 Curve Type : Average

Compound	20.000	50.000	100.000	500.000	1000.000	2000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	4000.000							
	Level 7							
176 1,2-Dichloroethane	1.04198	0.98122	0.83606	0.85906	0.73310	0.75547		
	0.73956						0.84949	14.349
8 Trichloroethene	0.68039	0.59184	0.48070	0.45988	0.39773	0.40690		
	0.39968						0.48816	22.310
10 Tetrachloroethene	0.56705	0.50748	0.42762	0.41268	0.35096	0.35026		
	0.35868						0.42496	19.830
11 1,1,2,2-Tetrachloroethane	0.37334	0.33411	0.30746	0.30469	0.27466	0.29060		
	0.28582						0.31010	10.886
\$ 5 d4-1,2-Dichloroethane	0.48832	0.47760	0.49233	0.44726	0.44275	0.44643		
	0.43857						0.46189	5.027
\$ 9 d8-Toluene	1.17182	1.17949	1.16918	1.17680	1.18614	1.18658		
	1.18826						1.17975	0.641

Analytical Resources, Inc.

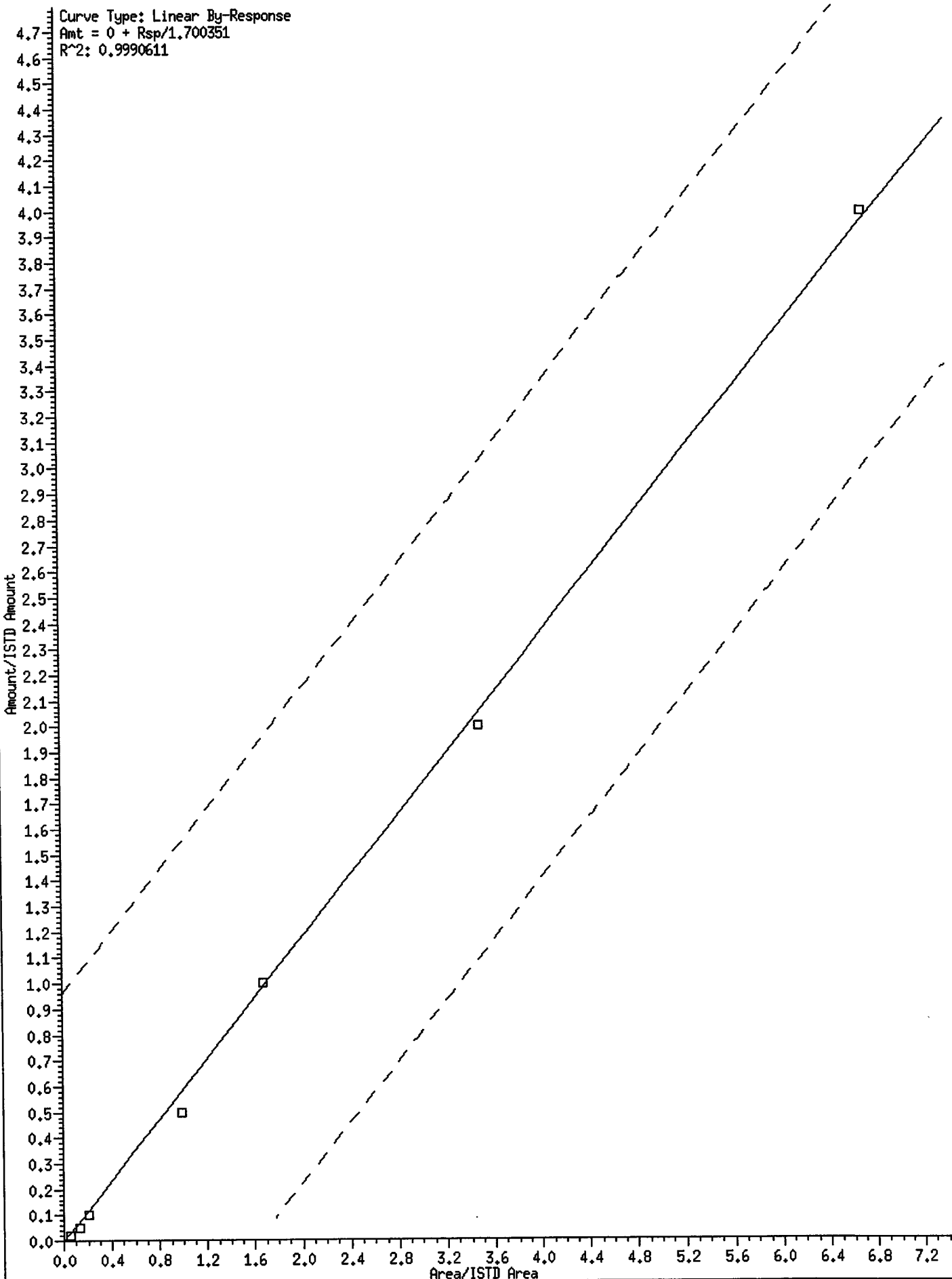
INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2010 09:50
End Cal Date : 13-DEC-2010 12:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt7.i/13DEC2010.b/sim121310.m
Cal Date : 13-Dec-2010 13:15 paul
Curve Type : Average

Average %RSD Results.	

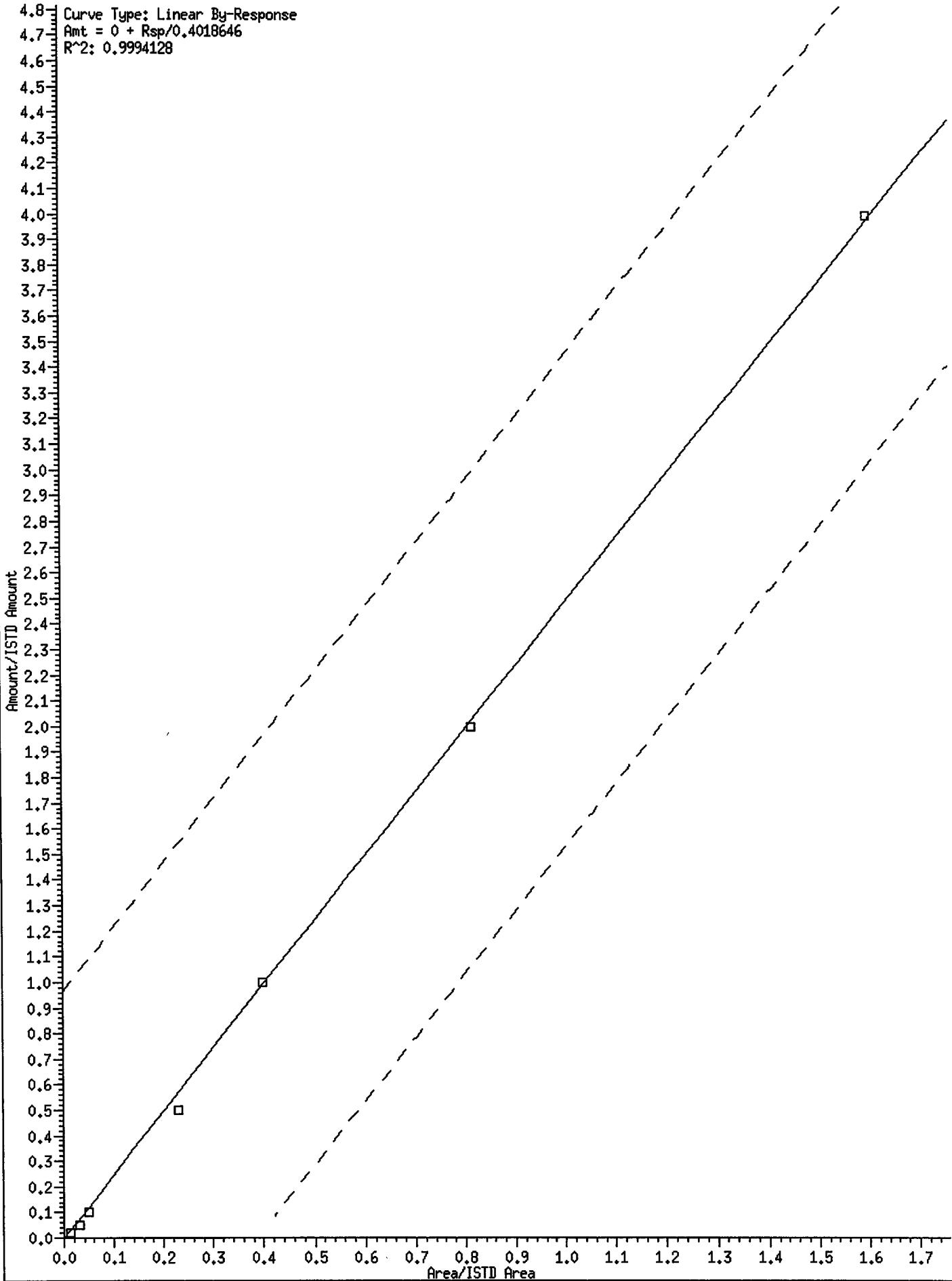
Calculated Average %RSD =	15.02652
Maximum Average %RSD =	5.00000
* Failed Average %RSD Test.	

6 Benzene



8 Trichloroethene

Curve Type: Linear By-Response
Amt = 0 + Rsp/0.4018646
R²: 0.9994128



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2010 09:50
 End Cal Date : 13-DEC-2010 12:24
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Cal Date : 13-Dec-2010 13:15 paul

Compound	20	50	100	500	1000	2000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
4000 Level 7											
3 cis-1,2-dichloroethene	0.93812 0.62689	0.87518	0.74930	0.71884	0.61472	0.63898	AVRG	0.000e+00	0.73743		17.21580
6 Benzene	29386 3457163	68197	108258	518432	879977	1834463	LINR	0.000e+00	1.70035		0.99906
176 1,2-Dichloroethane	1.04198 0.73956	0.98122	0.83606	0.85906	0.73310	0.75547	AVRG		0.84949		14.34919
8 Trichloroethene	7288 820108	15785	25330	120380	208472	428123	LINR	0.000e+00	0.40186		0.99941
10 Tetrachloroethene	0.56705 0.35868	0.50748	0.42762	0.41268	0.35096	0.35026	AVRG		0.42496		19.82951
11 1,1,2,2-Tetrachloroethane	0.37334 0.28582	0.33411	0.30746	0.30469	0.27466	0.29060	AVRG		0.31010		10.88613
5 d4-1,2-Dichloroethane	0.48832 0.43857	0.47760	0.49233	0.44726	0.44275	0.44643	AVRG		0.46189		5.02715

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Date : 13-DEC-2010 05:52

Client ID: BFB1213

Instrument: nt7.i

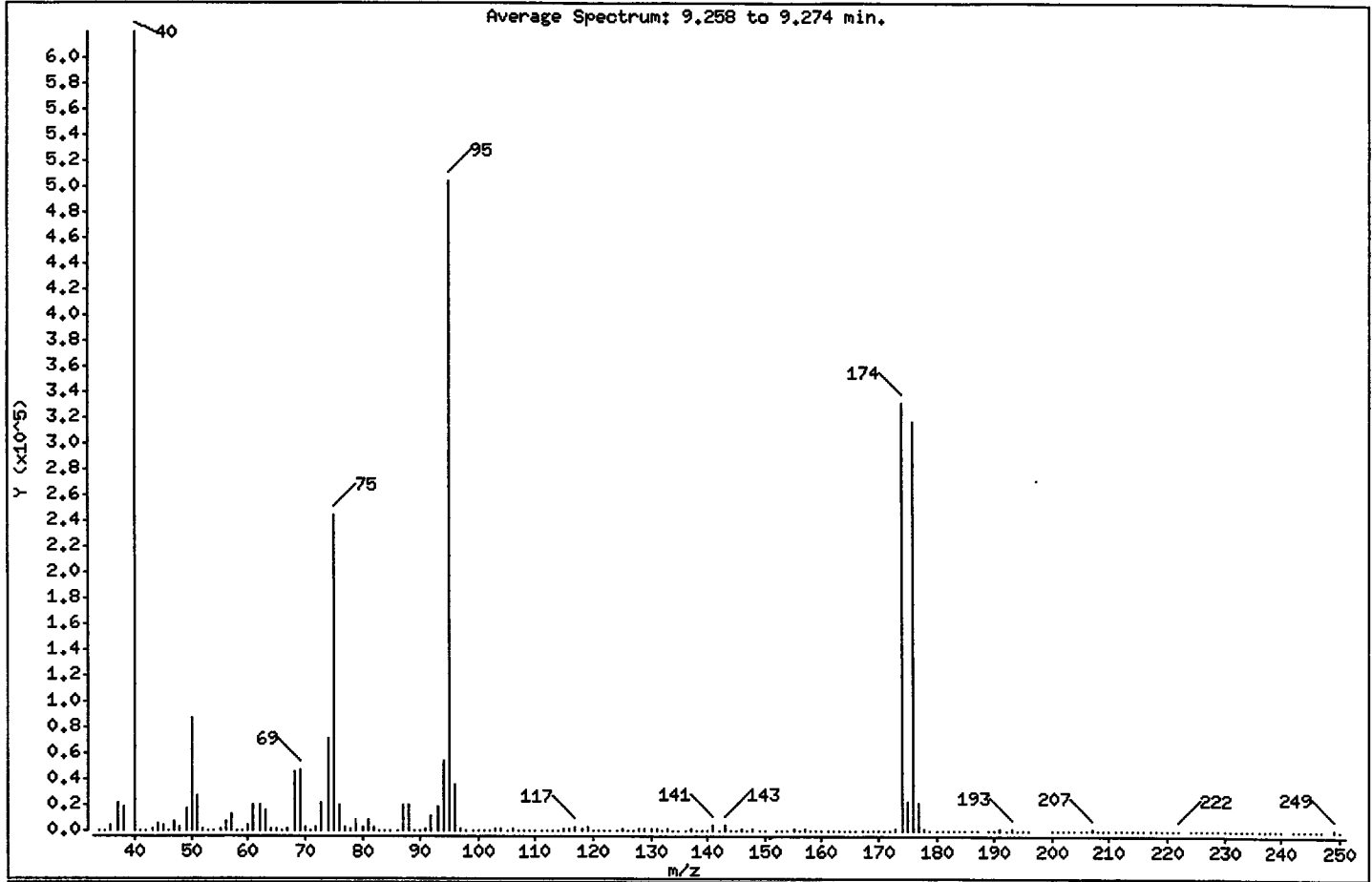
Sample Info: BFB1213,BFB1213,1,13DEC10,

Operator: MH

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	17.24
75	30.00 - 66.00% of mass 95	48.38
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.27 (0.42)
174	50.00 - 101.00% of mass 95	65.74
175	4.00 - 9.00% of mass 174	4.53 (6.89)
176	93.00 - 101.00% of mass 174	63.09 (95.97)
177	5.00 - 9.00% of mass 176	4.29 (6.80)

Date : 13-DEC-2010 05:52

Client ID: BFB1213

Instrument: nt7.i

Sample Info: BFB1213,BFB1213,1,13DEC10,

Operator: MH

Column phase: RTXVHS

Column diameter: 0.18

Data File: 121310001.d

Spectrum: Average Spectrum: 9.258 to 9.274 min.

Location of Maximum: 40.00

Number of points: 208

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	127	88.00	20168	141.00	3740	196.00	134
35.00	85	89.00	28	142.00	336	200.00	99
36.00	4962	90.00	127	143.00	3847	201.00	69
37.00	21336	91.00	1523	144.00	272	202.00	22
38.00	18632	92.00	12070	145.00	347	203.00	260
40.00	619648	93.00	18424	146.00	1017	204.00	82
41.00	701	94.00	53856	147.00	417	205.00	407
42.00	608	95.00	503296	148.00	987	206.00	76
43.00	936	96.00	34992	149.00	542	207.00	1084
44.00	6128	97.00	1384	150.00	407	208.00	457
45.00	4274	98.00	177	152.00	230	209.00	260
46.00	234	99.00	112	153.00	609	210.00	290
47.00	6922	100.00	93	154.00	559	211.00	83
48.00	3056	101.00	129	155.00	1025	212.00	159
49.00	17288	102.00	291	156.00	167	213.00	86
50.00	86776	103.00	917	157.00	776	214.00	196
51.00	26624	104.00	1725	158.00	128	215.00	153
52.00	1401	105.00	698	159.00	488	216.00	58
53.00	457	106.00	1726	160.00	218	217.00	59
54.00	320	107.00	579	161.00	608	218.00	25
55.00	1827	108.00	125	162.00	139	219.00	82
56.00	6569	109.00	169	163.00	471	220.00	107
57.00	12240	110.00	538	164.00	192	221.00	140
58.00	660	111.00	404	165.00	390	222.00	158
59.00	340	112.00	440	166.00	71	224.00	56
60.00	4181	113.00	406	167.00	66	225.00	75
61.00	20344	114.00	25	168.00	97	226.00	134
62.00	20296	115.00	811	169.00	196	227.00	32
63.00	15751	116.00	1580	170.00	108	228.00	92
64.00	1097	117.00	2648	171.00	81	229.00	96
65.00	1012	118.00	1577	172.00	83	230.00	155
66.00	223	119.00	2272	173.00	1378	231.00	49
67.00	934	120.00	152	174.00	330880	232.00	128
68.00	45720	121.00	556	175.00	22792	233.00	200
69.00	46896	122.00	198	176.00	317504	234.00	97

Date : 13-DEC-2010 05:52

Client ID: BFB1213

Instrument: nt7.i

Sample Info: BFB1213,BFB1213,1,13DEC10,

Operator: MH

Column phase: RTXVMS

Column diameter: 0,18

Data File: 121310001.d

Spectrum: Average Spectrum: 9.258 to 9.274 min.

Location of Maximum: 40.00

Number of points: 208

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	3252	123.00	143	177.00	21592	235.00	175
71.00	454	124.00	433	178.00	991	236.00	186
72.00	2525	125.00	781	179.00	325	237.00	140
73.00	21016	126.00	436	180.00	207	238.00	167
74.00	71736	127.00	70	181.00	77	239.00	51
75.00	243520	128.00	1226	182.00	46	240.00	32
76.00	19976	129.00	776	183.00	139	242.00	205
77.00	2933	130.00	1565	184.00	187	243.00	104
78.00	2133	131.00	973	185.00	26	244.00	138
79.00	7946	132.00	370	186.00	85	245.00	110
80.00	2778	133.00	1386	187.00	180	246.00	101
81.00	8113	134.00	346	189.00	271	247.00	72
82.00	2275	135.00	631	190.00	22	249.00	1265
83.00	489	136.00	197	191.00	911	250.00	182
84.00	249	137.00	918	192.00	339		
85.00	493	138.00	220	193.00	1005		
86.00	572	139.00	79	194.00	165		
87.00	19480	140.00	507	195.00	188		

Data File: /chem1/nt7.1/13DEC2010.b/121310001.d
Date: 13-DEC-2010 05:52
Client ID: BFB1213
Sample Info: BFB1213,BFB1213.1,13DEC10,

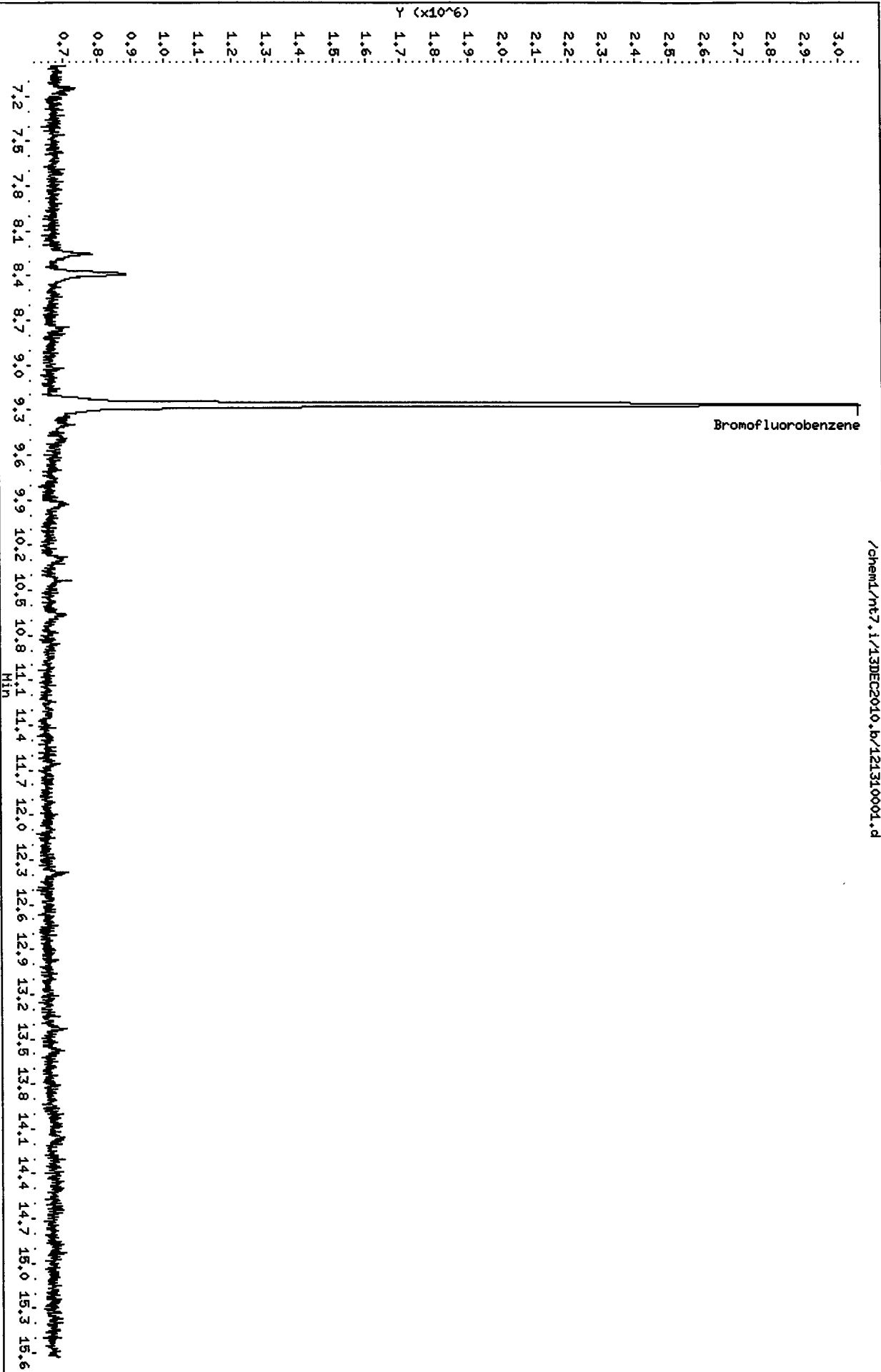
Instrument: nt7.1

Page 1

Column phase: RTXVMS

/chem1/nt7.1/13DEC2010.b/121310001.d

Operator: MH
Column diameter: 0.18



DL
12/13/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310008.d
 Lab Smp Id: 00201213 Client Smp ID: VSTD 20
 Inj Date : 13-DEC-2010 09:50
 Operator : MH Inst ID: nt7.i
 Smp Info : 00201213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 09:50 Cal File: 121310008.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.563	1.565	(0.294)	8121	20.0000	25.448
2 1,1-Dichloroethene	96	2.516	2.515	(0.473)	5667	20.0000	24.900
175 Trans-1,2-Dichloroethene	96	3.290	3.294	(0.619)	6423	20.0000	25.370
3 cis-1,2-dichloroethene	96	4.439	4.438	(0.835)	6612	20.0000	25.443
6 Benzene	78	5.210	5.211	(0.905)	29386	20.0000	32.269
* 4 Pentafluorobenzene	168	5.315	5.315	(1.000)	352406	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	172088	1000.00	1057.2
176 1,2-Dichloroethane	62	5.381	5.382	(1.012)	7344	20.0000	24.532
8 Trichloroethene	130	5.709	5.710	(0.992)	7288	20.0000	33.862
* 7 1,4-Difluorobenzene	114	5.755	5.756	(1.000)	535575	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	627598	1000.00	993.28
10 Tetrachloroethene	166	7.270	7.259	(1.263)	6074	20.0000	26.687
11 1,1,1,2,2-Tetrachloroethane	83	9.457	9.446	(1.643)	3999	20.0000	24.079

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 13-DEC-2010
Lab File ID: 121310008.d	Calibration Time: 11:33
Lab Smp Id: 00201213	Client Smp ID: VSTD 20
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: MH	
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	352406	1.90
7 1,4-Difluorobenze	524155	262078	1048310	535575	2.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.01
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	-0.01

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/nt7.1/13DEC2010.b/121310008.d

Date: 13-DEC-2010 09:50

Client ID: VSTD 20

Sample Info: 00201213,10,10,0,

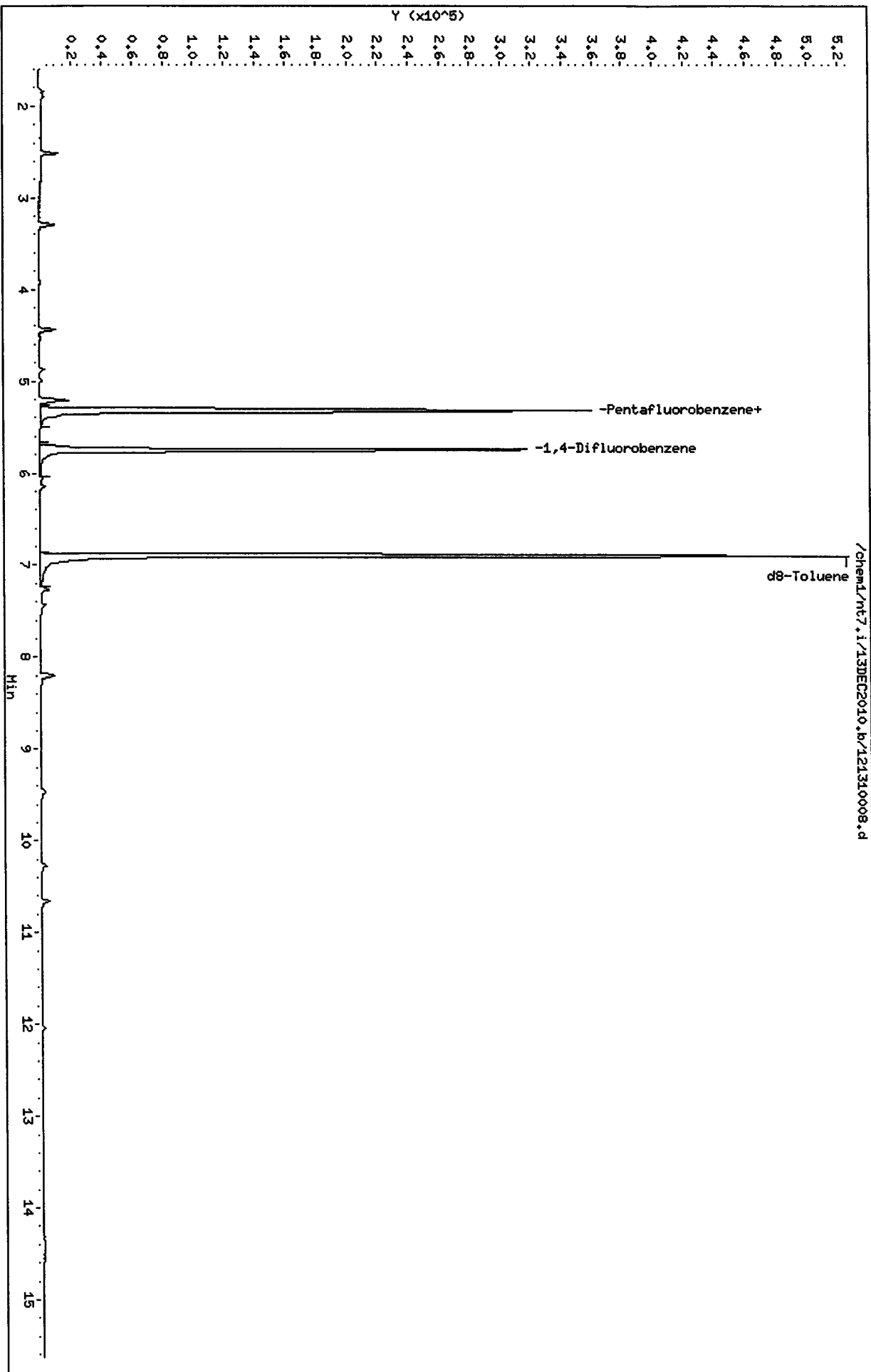
Column phase: RTXVMS

Instrument: nt7.1

Operator: MH

Column diameter: 0.18

Page 3



SF26:00324

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310009.d
 Lab Smp Id: 00501213 Client Smp ID: VSTD 50
 Inj Date : 13-DEC-2010 10:16
 Operator : MH Inst ID: nt7.i
 Smp Info : 00501213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 10:16 Cal File: 121310009.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.565	1.565	(0.294)	19221	50.0000	60.091	
2 1,1-Dichloroethene	96	2.515	2.515	(0.473)	14009	50.0000	61.411	
175 Trans-1,2-Dichloroethene	96	3.294	3.294	(0.620)	15866	50.0000	62.523	
3 cis-1,2-dichloroethene	96	4.444	4.438	(0.836)	15457	50.0000	59.339	
6 Benzene	78	5.212	5.211	(0.905)	68197	50.0000	75.189	
* 4 Pentafluorobenzene	168	5.316	5.315	(1.000)	353232	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	168702	1000.00	1034.0	
176 1,2-Dichloroethane	62	5.382	5.382	(1.012)	17330	50.0000	57.754	
8 Trichloroethene	130	5.710	5.710	(0.992)	15785	50.0000	73.636	
* 7 1,4-Difluorobenzene	114	5.756	5.756	(1.000)	533424	1000.00		
\$ 9 d8-Toluene	98	6.903	6.902	(1.199)	629168	1000.00	999.78	
10 Tetrachloroethene	166	7.271	7.259	(1.263)	13535	50.0000	59.708	
11 1,1,2,2-Tetrachloroethane	83	9.458	9.446	(1.643)	8911	50.0000	53.871	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 121310009.d
Lab Smp Id: 00501213
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Misc Info: 10-

Calibration Date: 13-DEC-2010
Calibration Time: 11:33
Client Smp ID: VSTD 50
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	353232	2.14
7 1,4-Difluorobenze	524155	262078	1048310	533424	1.77

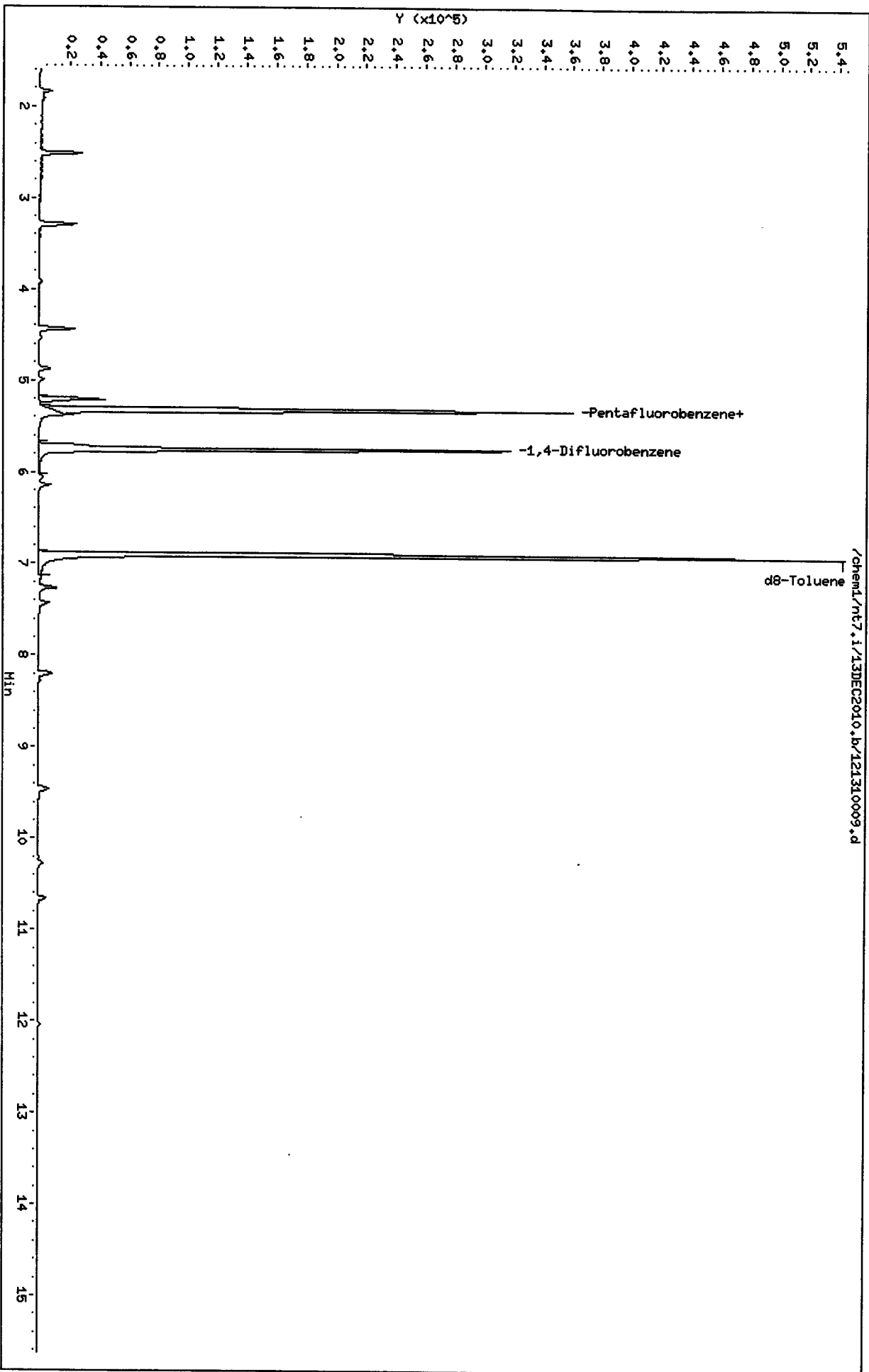
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	0.00

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/nt7.1/13DEC2010.b/121310009.d
Date: 13-DEC-2010 10:16
Client ID: VSTD 50
Sample Info: 00501213,10,10,0,

Column phase: RTXVHS

Instrument: nt7.1
Operator: MH
Column diameter: 0.18



PL
12/13/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310010.d
 Lab Smp Id: 01001213 Client Smp ID: VSTD 100
 Inj Date : 13-DEC-2010 10:41
 Operator : MH Inst ID: nt7.i
 Smp Info : 01001213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 10:41 Cal File: 121310010.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.564	1.565	(0.294)	31777	100.000	102.48
2 1,1-Dichloroethene	96		2.516	2.515	(0.473)	22605	100.000	102.22
175 Trans-1,2-Dichloroethene	96		3.295	3.294	(0.620)	24526	100.000	99.703
3 cis-1,2-dichloroethene	96		4.445	4.438	(0.836)	25657	100.000	101.61
6 Benzene	78		5.212	5.211	(0.906)	108258	100.000	120.83
* 4 Pentafluorobenzene	168		5.316	5.315	(1.000)	342414	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.325	(1.002)	168581	1000.00	1065.9
176 1,2-Dichloroethane	62		5.382	5.382	(1.012)	28628	100.000	98.419
8 Trichloroethene	130		5.720	5.710	(0.994)	25330	100.000	119.62
* 7 1,4-Difluorobenzene	114		5.755	5.756	(1.000)	526938	1000.00	
\$ 9 d8-Toluene	98		6.904	6.902	(1.200)	616084	1000.00	991.04
10 Tetrachloroethene	166		7.272	7.259	(1.264)	22533	100.000	100.63
11 1,1,2,2-Tetrachloroethane	83		9.447	9.446	(1.642)	16201	100.000	99.149

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 121310010.d
Lab Smp Id: 01001213
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Misc Info: 10-

Calibration Date: 13-DEC-2010
Calibration Time: 11:33
Client Smp ID: VSTD 100
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	342414	-0.99
7 1,4-Difluorobenze	524155	262078	1048310	526938	0.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.76	5.26	6.26	5.75	-0.02

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/nt7.i/13DEC2010.b/121310010.d

Date : 13-DEC-2010 10:41

Client ID: VSTD 100

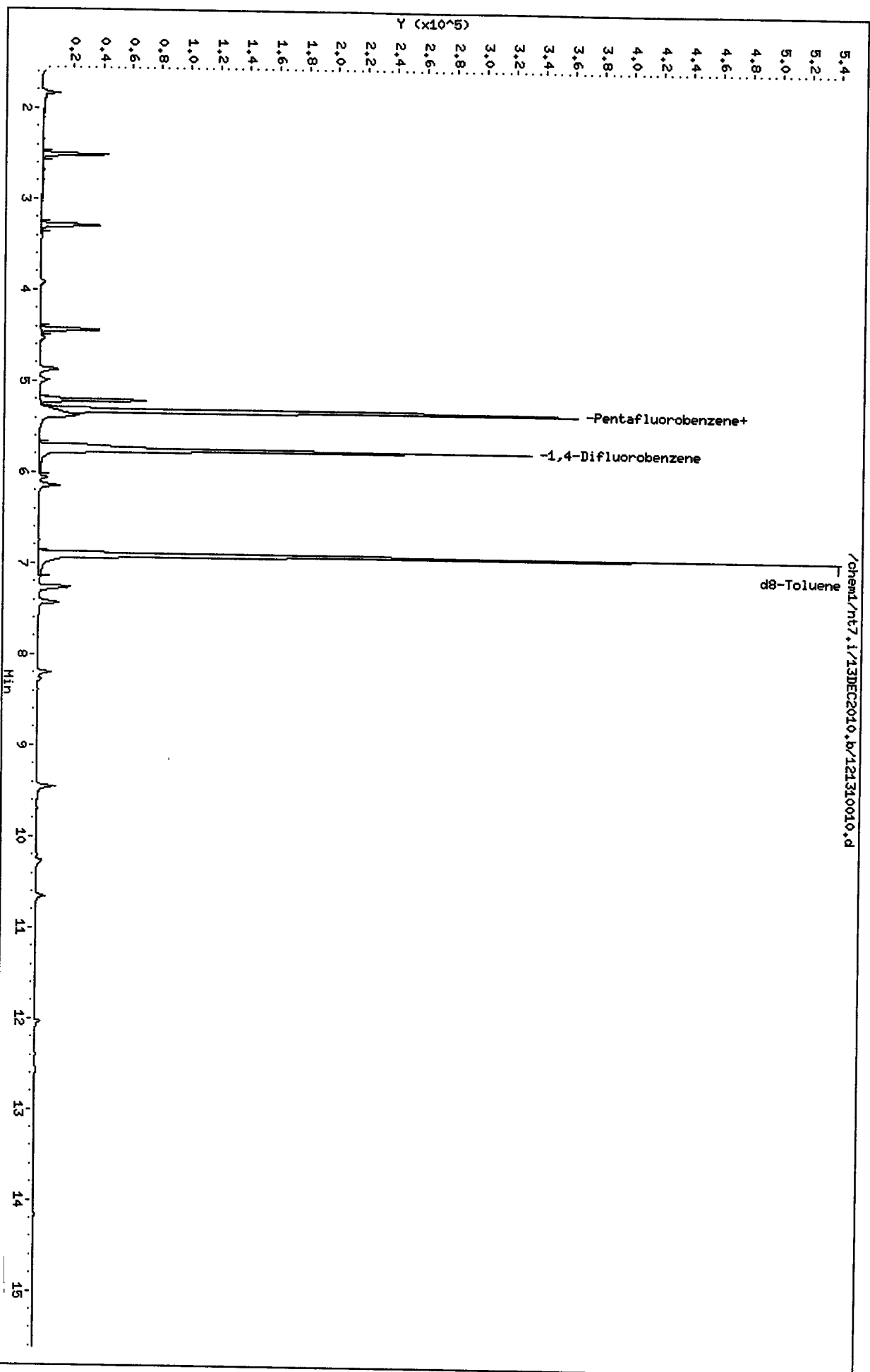
Sample Info: 01001213,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i

Operator: HH

Column diameter: 0.18



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310011.d
 Lab Smp Id: 05001213 Client Smp ID: VSTD 500
 Inj Date : 13-DEC-2010 11:07
 Operator : MH Inst ID: nt7.i
 Smp Info : 05001213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 11:07 Cal File: 121310011.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.563	1.565	(0.294)	149625	500.000	478.60	
2 1,1-Dichloroethene	96	2.517	2.515	(0.474)	108206	500.000	485.32	
175 Trans-1,2-Dichloroethene	96	3.296	3.294	(0.620)	119972	500.000	483.72	
3 cis-1,2-dichloroethene	96	4.440	4.438	(0.835)	124086	500.000	487.39	
6 Benzene	78	5.210	5.211	(0.905)	518432	500.000	582.38	
* 4 Pentafluorobenzene	168	5.315	5.315	(1.000)	345239	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	154413	1000.00	968.32	
176 1,2-Dichloroethane	62	5.381	5.382	(1.012)	148290	500.000	505.63	
8 Trichloroethene	130	5.709	5.710	(0.992)	120380	500.000	572.18	
* 7 1,4-Difluorobenzene	114	5.755	5.756	(1.000)	523532	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	616091	1000.00	997.50	
10 Tetrachloroethene	166	7.258	7.259	(1.261)	108026	500.000	485.55	
11 1,1,2,2-Tetrachloroethane	83	9.445	9.446	(1.641)	79758	500.000	491.29	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 121310011.d
Lab Smp Id: 05001213
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Misc Info: 10-

Calibration Date: 13-DEC-2010
Calibration Time: 11:33
Client Smp ID: VSTD 500
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

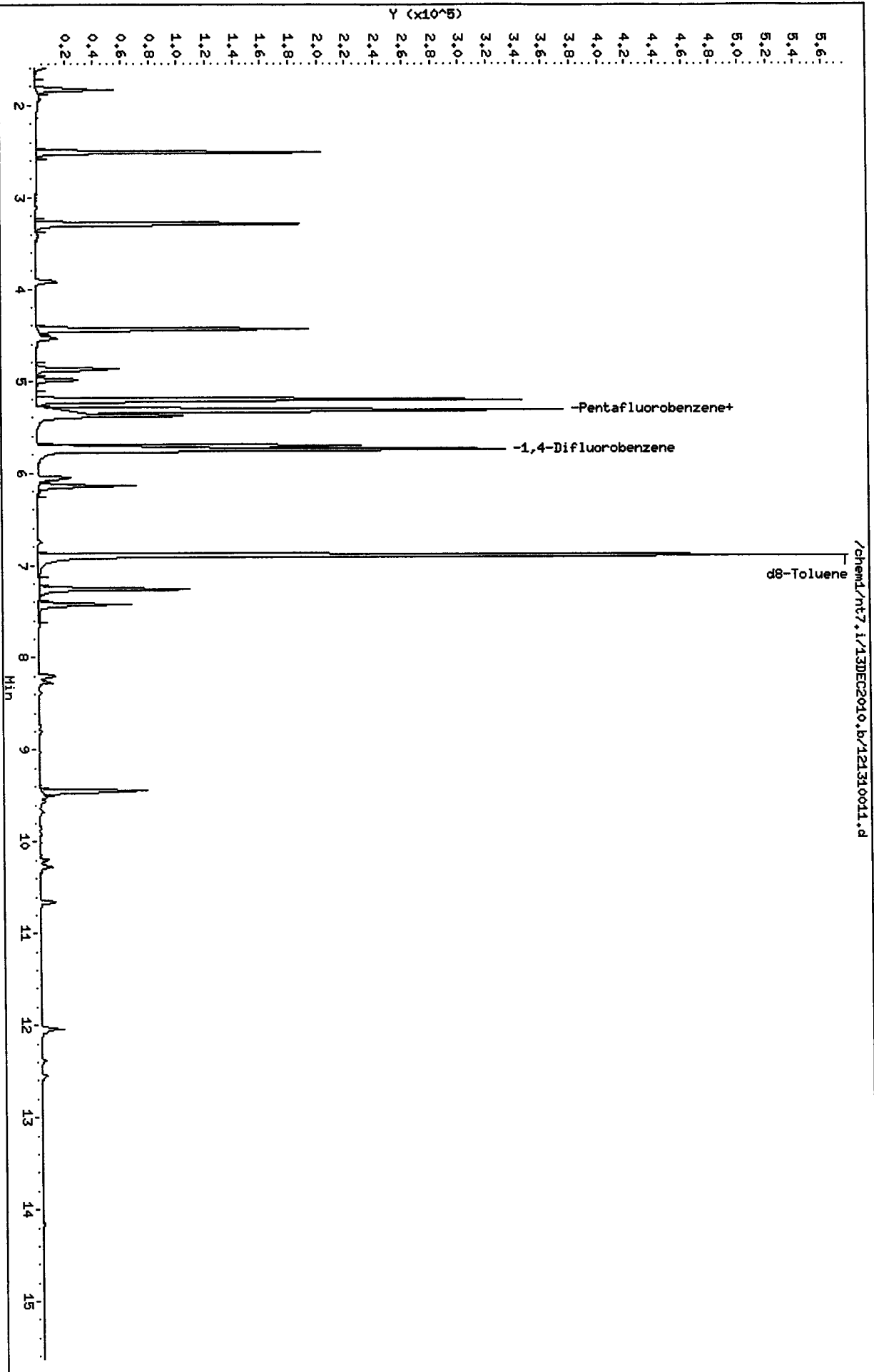
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	345239	-0.17
7 1,4-Difluorobenze	524155	262078	1048310	523532	-0.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.01
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	-0.01

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/nt7.i/13DEC2010.b/121310011.d
Date : 13-DEC-2010 11:07
Client ID: VSTD 500
Sample Info: 05001213,10,10,0,
Column phase: RTXVHS

Instrument: nt7.i
Operator: HH
Column diameter: 0.18



Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310012.d
 Lab Smp Id: 10001213 Client Smp ID: VSTD 1000
 Inj Date : 13-DEC-2010 11:33
 Operator : MH Inst ID: nt7.i
 Smp Info : 10001213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 11:33 Cal File: 121310012.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride		62	1.565	1.565	(0.294)	261400	1000.00	834.72
2 1,1-Dichloroethene		96	2.515	2.515	(0.473)	185215	1000.00	829.31
175 Trans-1,2-Dichloroethene		96	3.294	3.294	(0.620)	203828	1000.00	820.43
3 cis-1,2-dichloroethene		96	4.438	4.438	(0.835)	212585	1000.00	833.59
6 Benzene		78	5.211	5.211	(0.905)	879977	1000.00	987.35
* 4 Pentafluorobenzene		168	5.315	5.315	(1.000)	345824	1000.00	
\$ 5 d4-1,2-Dichloroethane		65	5.325	5.325	(1.002)	153113	1000.00	958.55
176 1,2-Dichloroethane		62	5.382	5.382	(1.012)	253522	1000.00	862.98
8 Trichloroethene		130	5.710	5.710	(0.992)	208472	1000.00	989.71
* 7 1,4-Difluorobenzene		114	5.756	5.756	(1.000)	524155	1000.00	
\$ 9 d8-Toluene		98	6.902	6.902	(1.199)	621719	1000.00	1005.4
10 Tetrachloroethene		166	7.259	7.259	(1.261)	183956	1000.00	825.86
11 1,1,2,2-Tetrachloroethane		83	9.446	9.446	(1.641)	143964	1000.00	885.72

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 13-DEC-2010
Lab File ID: 121310012.d	Calibration Time: 11:33
Lab Smp Id: 10001213	Client Smp ID: VSTD 1000
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: MH	
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
4 Pentafluorobenzen	345824	172912	691648	345824	0.00
7 1,4-Difluorobenze	524155	262078	1048310	524155	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	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/nt7.i/13DEC2010.b/121310012.d

Date: 13-DEC-2010 11:33

Client ID: VSTD 1000

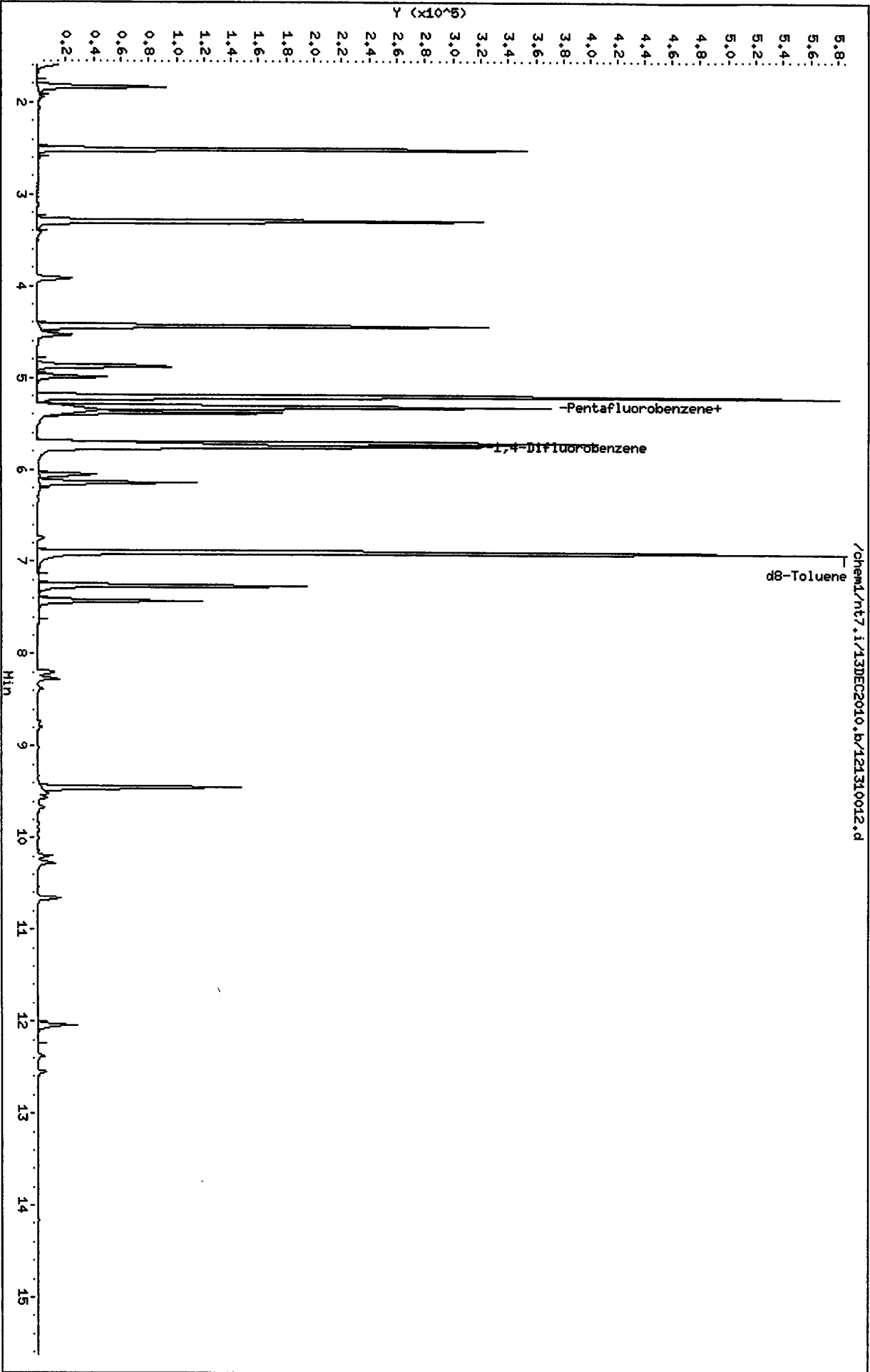
Sample Info: 10001213,10,10,0,

Column phase: RTXVMS

Instrument: nt7.i

Operator: MH

Column diameter: 0.18



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Data File: /chem1/nt7.i/13DEC2010.b/121310013.d
Report Date: 13-Dec-2010 13:50

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310013.d
Lab Smp Id: 20001213 Client Smp ID: VSTD 2000
Inj Date : 13-DEC-2010 11:58
Operator : MH Inst ID: nt7.i
Smp Info : 20001213,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 11:58 Cal File: 121310013.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.554	1.565	(0.292)	540824	2000.00	1736.7
2 1,1-Dichloroethene	96	2.509	2.515	(0.472)	384092	2000.00	1729.4
175 Trans-1,2-Dichloroethene	96	3.289	3.294	(0.619)	424994	2000.00	1720.2
3 cis-1,2-dichloroethene	96	4.438	4.438	(0.835)	439484	2000.00	1733.0
6 Benzene	78	5.212	5.211	(0.906)	1834463	2000.00	2050.8
* 4 Pentafluorobenzene	168	5.316	5.315	(1.000)	343894	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	153525	1000.00	966.52
176 1,2-Dichloroethane	62	5.382	5.382	(1.012)	519600	2000.00	1778.6
8 Trichloroethene	130	5.709	5.710	(0.992)	428123	2000.00	2025.1
* 7 1,4-Difluorobenzene	114	5.755	5.756	(1.000)	526079	1000.00	
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	624233	1000.00	1005.8
10 Tetrachloroethene	166	7.260	7.259	(1.262)	368534	2000.00	1648.5
11 1,1,2,2-Tetrachloroethane	83	9.447	9.446	(1.642)	305761	2000.00	1874.3

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 121310013.d
Lab Smp Id: 20001213
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Misc Info: 10-

Calibration Date: 13-DEC-2010
Calibration Time: 11:33
Client Smp ID: VSTD 2000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	343894	-0.56
7 1,4-Difluorobenze	524155	262078	1048310	526079	0.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.76	5.26	6.26	5.75	-0.03

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/nt7.i/13DEC2010.b/121310013.d

Date: 13-DEC-2010 11:58

Client ID: VSTD 2000

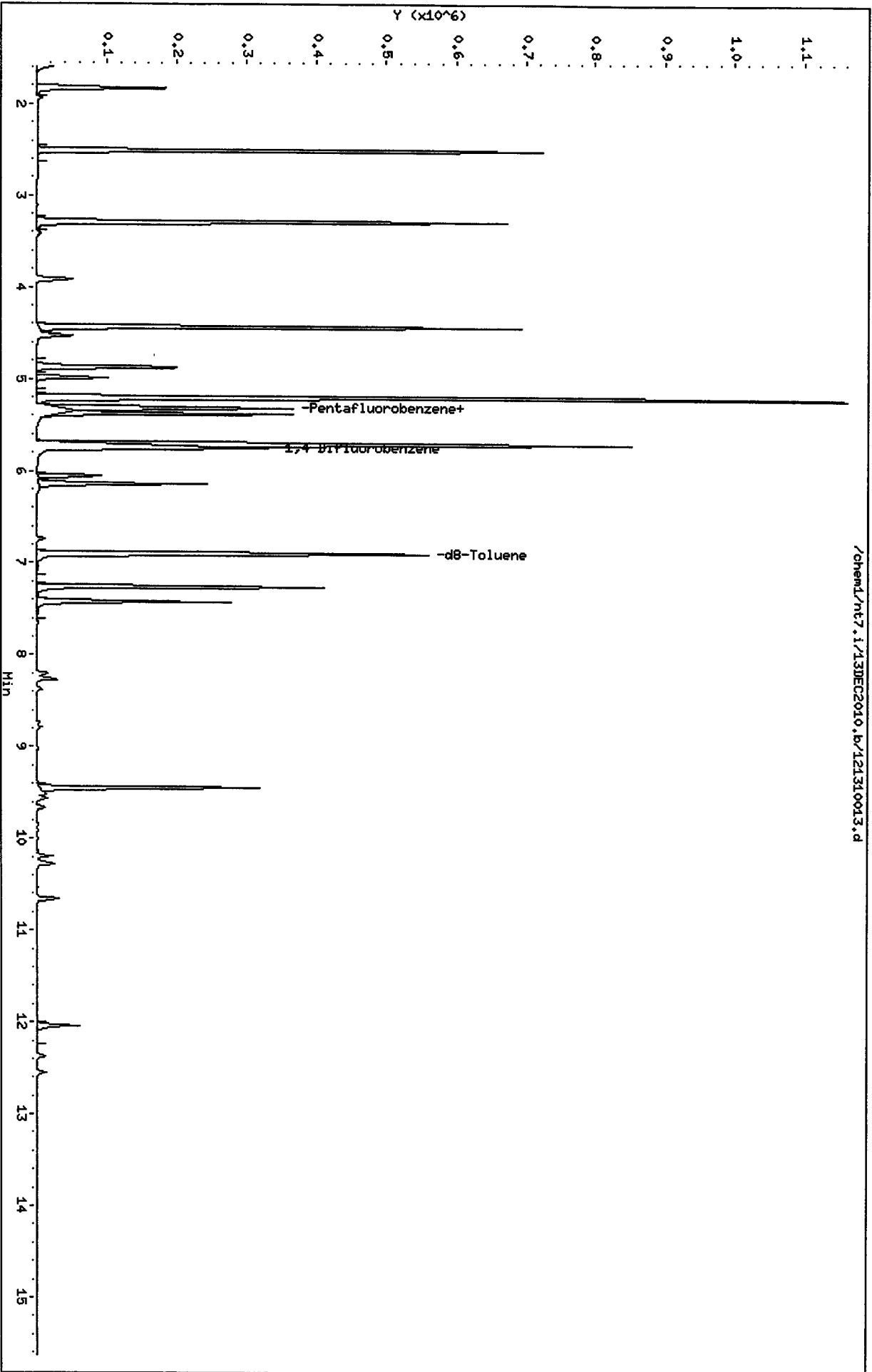
Sample Info: 20001213,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i

Operator: NH

Column diameter: 0.18



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310014.d
 Lab Smp Id: 40001213 Client Smp ID: VSTD 4000
 Inj Date : 13-DEC-2010 12:24
 Operator : MH Inst ID: nt7.i
 Smp Info : 40001213,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
 Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
 Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.563	1.565	(0.294)	1023652	4000.00	3362.7
2 1,1-Dichloroethene	96	2.510	2.515	(0.472)	729321	4000.00	3359.4
175 Trans-1,2-Dichloroethene	96	3.290	3.294	(0.619)	807578	4000.00	3344.0
3 cis-1,2-dichloroethene	96	4.439	4.438	(0.835)	842963	4000.00	3400.4
6 Benzene	78	5.210	5.211	(0.905)	3457163	4000.00	3963.6
* 4 Pentafluorobenzene	168	5.314	5.315	(1.000)	336166	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	147433	1000.00	949.51
176 1,2-Dichloroethane	62	5.381	5.382	(1.012)	994462	4000.00	3482.4
8 Trichloroethene	130	5.709	5.710	(0.992)	820108	4000.00	3978.3
* 7 1,4-Difluorobenzene	114	5.755	5.756	(1.000)	512975	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	609547	1000.00	1007.2
10 Tetrachloroethene	166	7.259	7.259	(1.261)	735973	4000.00	3376.1
11 1,1,2,2-Tetrachloroethane	83	9.445	9.446	(1.641)	586464	4000.00	3686.8

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 121310014.d
Lab Smp Id: 40001213
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
Misc Info: 10-

Calibration Date: 13-DEC-2010
Calibration Time: 11:33
Client Smp ID: VSTD 4000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	336166	-2.79
7 1,4-Difluorobenze	524155	262078	1048310	512975	-2.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.02
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	-0.01

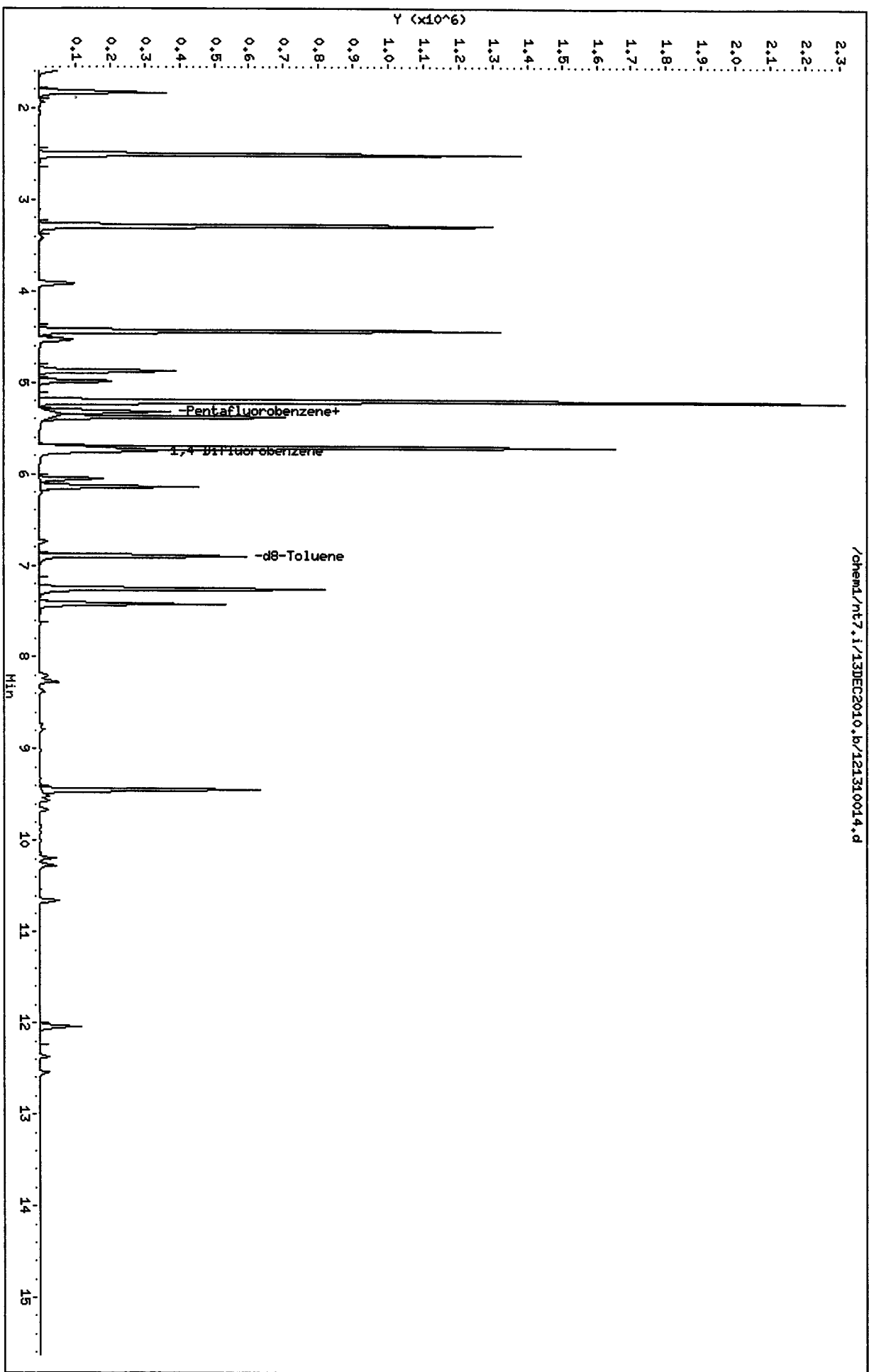
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt7.i/13DEC2010.b/121310014.d
Date : 13-DEC-2010 12:24
Client ID: VSTD 4000
Sample Info: 40001213,10,10,0,

Column phase: RTXVMS

Instrument: nt7.i
Operator: MH
Column diameter: 0.18

/chem1/nt7.i/13DEC2010.b/121310014.d



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Data File: /chem1/nt7.i/13DEC2010.b/121310015.d
Report Date: 13-Dec-2010 13:50

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/13DEC2010.b/121310015.d
Lab Smp Id: ICV1213 Client Smp ID: ICV1000
Inj Date : 13-DEC-2010 12:50
Operator : MH Inst ID: nt7.i
Smp Info : ICV1213,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/13DEC2010.b/sim121310.m
Meth Date : 13-Dec-2010 13:50 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62		1.553	1.565	(0.292)	262655	864.425	864.43
2 1,1-Dichloroethene	96		2.514	2.515	(0.473)	202271	933.434	933.43
175 Trans-1,2-Dichloroethene	96		3.288	3.294	(0.619)	224763	932.416	932.42
3 cis-1,2-dichloroethene	96		4.438	4.438	(0.835)	227203	918.211	918.21
6 Benzene	78		5.211	5.211	(0.905)	909163	1042.07	1042.1
* 4 Pentafluorobenzene	168		5.315	5.315	(1.000)	335543	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.325	(1.002)	150329	969.953	969.95
176 1,2-Dichloroethane	62		5.381	5.382	(1.012)	263663	925.000	925.00
8 Trichloroethene	130		5.710	5.710	(0.992)	215279	1044.03	1044.0
* 7 1,4-Difluorobenzene	114		5.756	5.756	(1.000)	513107	1000.00	
\$ 9 d8-Toluene	98		6.902	6.902	(1.199)	611512	1010.20	1010.2
10 Tetrachloroethene	166		7.258	7.259	(1.261)	197122	904.018	904.02
11 1,1,2,2-Tetrachloroethane	83		9.445	9.446	(1.641)	151779	953.916	953.92

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 121310015.d
 Lab Smp Id: ICV1213
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MH
 Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
 Misc Info: 10-

Calibration Date: 13-DEC-2010
 Calibration Time: 11:33
 Client Smp ID: ICV1000
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	335543	-2.97
7 1,4-Difluorobenze	524155	262078	1048310	513107	-2.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.76	5.26	6.26	5.76	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: 13DEC2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV1213 Client Smp ID: ICV1000
 Level: LOW Operator: MH
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/13DEC2010.b/sim121310.m
 Misc Info: 10-

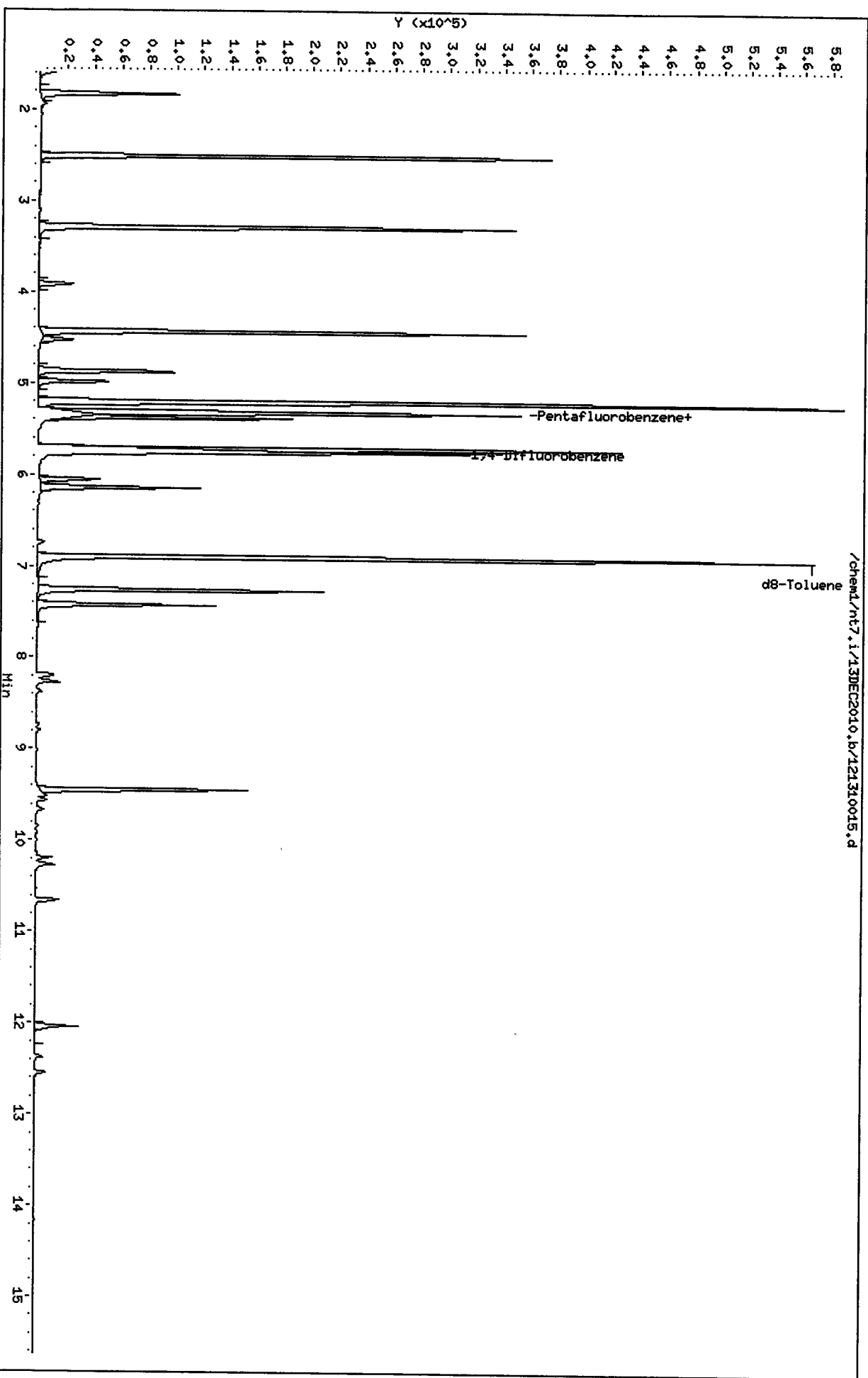
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	864.43	86.44	76-120
176 1,2-Dichloroethane	1000.0	925.00	92.50	80-128
175 Trans-1,2-Dichloro	1000.0	932.42	93.24	80-120
2 1,1-Dichloroethene	1000.0	933.43	93.34	80-120
3 cis-1,2-dichloroet	1000.0	918.21	91.82	80-120
6 Benzene	1000.0	1042.1	104.21	80-120
8 Trichloroethene	1000.0	1044.0	104.40	80-120
10 Tetrachloroethene	1000.0	904.02	90.40	80-122
11 1,1,2,2-Tetrachlor	1000.0	953.92	95.39	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	969.95	97.00	80-126
\$ 9 d8-Toluene	1000.0	1010.2	101.02	80-120

Data File: /chem1/n7.1/13DEC2010.b/121310015.d
Date: 13-DEC-2010 12:50
Client ID: ICV1000
Sample Info: ICV1213,10,10,0,

Column phase: RTXVHS

Instrument: n7.1
Operator: NH
Column diameter: 0.18



5125 : 00346



VOA Analyst Notes / Corrective Action Log

ARI Project ID: VC 12511 SF248 5/1/11 VOA CAL Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): 5/1/11 VOA

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: 1/25/11 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
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	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 VC 129,334
All cleared.

Additional Details on Reverse: Yes / No

Analyst: _____ PL Date: 1/25/11

Reviewer: _____ [Signature] Date: 1/25/11

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 1/25/11 Analysis: S/M WA Analyst: PL
 GC Program: VC Column No: 860322 Column Type: PKVMS
 Instrument Tune (.U or .CT.): 630125 EM Voltage: 2847
 Calibration File: 10000125 Curve Date: 1/25/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW673-2</u>	<u>VW672-2</u>	<u>VW658-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/25JAN2011.b

Time	Filename	LabID	ClientID	WT
1 0948	0128001.d	BFB0128	BFB0128	0.00
2 1021	0128002.d	CC0125	CC0125	1 5.32 330944 5.74 518115
3 1048	0128003.d	CC0125A	CC0125A	1 5.32 331519 5.74 518301
4 1116	0128004.d	LCS0125		1 5.32 330891 5.75 512908
5 1228	0128005.d	05000125	VSTD500	1 5.32 335674 5.74 522688
6 1295	0128006.d	01000125	VSTD100	1 5.32 330373 5.74 506616
7 1323	0128007.d	09000125	VSTD50	1 5.32 332262 5.75 512322
8 1380	0128008.d	00300125	VSTD20	1 5.31 324417 5.74 501208
9 1415	0128009.d	40000125	VSTD4000	1 5.32 326924 5.74 507893
10 1442	0128010.d	20000125	VSTD2000	1 5.32 336791 5.75 517603
11 1810	0128011.d	10000125	VSTD1000	1 5.32 334294 5.74 528497
12 1528	0128012.d	ICV0125	ICV1000	1 5.32 326190 5.75 502883

PL 1/25/11

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.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Batch File: /chem1/nt7.i/25JAN2011.b
Inst ID: nt7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	0125005	0125006	0125007	0125008	0125009	0125010	0125011	0125012				
INJ. DATE:	25-JAN-2011	25-JAN-2011	25-JAN-2011	25-JAN-2011	25-JAN-2011	25-JAN-2011	25-JAN-2011	25-JAN-2011				
INJ. TIME:	12:28	12:55	13:23	13:50	14:15	14:42	15:10	15:38				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Vinyl Chloride	1.552	1.551	1.552	1.552	1.552	1.552	1.551	1.554	1.551	1.338-1.764	1.552	0.001
2 1,1-Dichloroethene	2.504	2.505	2.504	2.505	2.509	2.510	2.505	2.510	2.505	2.293-2.718	2.507	0.003
175 Trans-1,2-Dichloroethene	3.278	3.284	3.289	3.285	3.289	3.284	3.285	3.284	3.285	3.072-3.497	3.285	0.003
177 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.980	3.767-4.193	+++++	+++++
3 cis-1,2-dichloroethene	4.433	4.434	4.433	4.434	4.433	4.434	4.434	4.433	4.434	4.222-4.647	4.434	0.001
6 Benzene	5.202	5.211	5.212	5.210	5.202	5.203	5.201	5.203	5.201	4.971-5.431	5.205	0.005
* 4 Pentafluorobenzene	5.316	5.315	5.316	5.315	5.316	5.316	5.315	5.316	5.315	5.102-5.528	5.316	0.001
\$ 5 d4-1,2-Dichloroethane	5.316	5.325	5.325	5.324	5.325	5.326	5.325	5.326	5.325	5.112-5.537	5.324	0.003
176 1,2-Dichloroethane	5.373	5.381	5.382	5.381	5.382	5.383	5.381	5.383	5.381	5.169-5.594	5.381	0.003
8 Trichloroethene	5.709	5.709	5.708	5.709	5.710	5.709	5.710	5.708	5.710	5.480-5.940	5.709	0.001
* 7 1,4-Difluorobenzene	5.743	5.744	5.744	5.744	5.744	5.755	5.745	5.755	5.745	5.515-5.974	5.748	0.005
\$ 9 d8-Toluene	6.891	6.902	6.903	6.902	6.891	6.902	6.902	6.902	6.902	6.672-7.131	6.899	0.005
10 Tetrachloroethene	7.260	7.270	7.271	7.270	7.260	7.258	7.258	7.259	7.258	7.029-7.488	7.263	0.006
11 1,1,1,2-Tetrachloroethene	9.447	9.457	9.458	9.469	9.447	9.445	9.445	9.446	9.445	9.216-9.675	9.452	0.009

Reviewer 1 PC Date: 1/25/11
Reviewer 2 AB Date: 1/25/11

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2011 12:28
 End Cal Date : 25-JAN-2011 15:10
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/25JAN2011.b/sim012511.m
 Cal Date : 25-Jan-2011 15:51 paul
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/nt7.i/25JAN2011.b/0125008.d
 Level 2: /chem1/nt7.i/25JAN2011.b/0125007.d
 Level 3: /chem1/nt7.i/25JAN2011.b/0125006.d
 Level 4: /chem1/nt7.i/25JAN2011.b/0125005.d
 Level 5: /chem1/nt7.i/25JAN2011.b/0125011.d
 Level 6: /chem1/nt7.i/25JAN2011.b/0125010.d
 Level 7: /chem1/nt7.i/25JAN2011.b/0125009.d

Compound	20.000	50.000	100.000	500.000	1000.000	2000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	4000.000							
	Level 7							
1 Vinyl Chloride	0.75119 0.81154	0.70168	0.74343	0.76294	0.82294	0.86437	0.77973	7.131
2 1,1-Dichloroethene	0.59846 0.56776	0.53668	0.57532	0.58110	0.58382	0.60889	0.57886	4.008
175 Trans-1,2-Dichloroethene	0.64469 0.62992	0.60157	0.64878	0.64002	0.65014	0.67502	0.64145	3.481
177 Acrylonitrile	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
3 cis-1,2-dichloroethene	0.67028 0.64797	0.60717	0.65208	0.65821	0.67125	0.69160	0.65694	4.011
6 Benzene	2.06461 1.79018	1.80184	1.88508	1.80748	1.81989	1.92292	1.87029	5.272

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2011 12:28
 End Cal Date : 25-JAN-2011 15:10
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/25JAN2011.b/sim012511.m
 Cal Date : 25-Jan-2011 15:51 paul
 Curve Type : Average

Compound	20.000	50.000	100.000	500.000	1000.000	2000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	4000.000							
	Level 7							
176 1,2-Dichloroethane	0.75921 0.81258	0.70926	0.78033	0.82849	0.84737	0.86217	0.79991	6.725
8 Trichloroethene	0.43016 0.39819	0.39581	0.41686	0.41236	0.40778	0.43385	0.41357	3.538
10 Tetrachloroethene	0.35604 0.35466	0.34353	0.36229	0.36656	0.35810	0.37352	0.35924	2.655
11 1,1,2,2-Tetrachloroethane	0.21239 0.28106	0.19660	0.22332	0.24506	0.26061	0.29539	0.24492	14.871
\$ 5 d4-1,2-Dichloroethane	0.53722 0.54124	0.53822	0.55859	0.55062	0.54989	0.46549	0.53447	5.870
\$ 9 d8-Toluene	1.11812 1.13842	1.10636	1.11907	1.09107	1.12864	1.14526	1.12099	1.658

PC
1/25/11
Page 2

Data File: /chem1/nt7.i/25JAN2011.b/0125001.d

Date : 25-JAN-2011 09:45

Client ID: BFB0125

Instrument: nt7.i

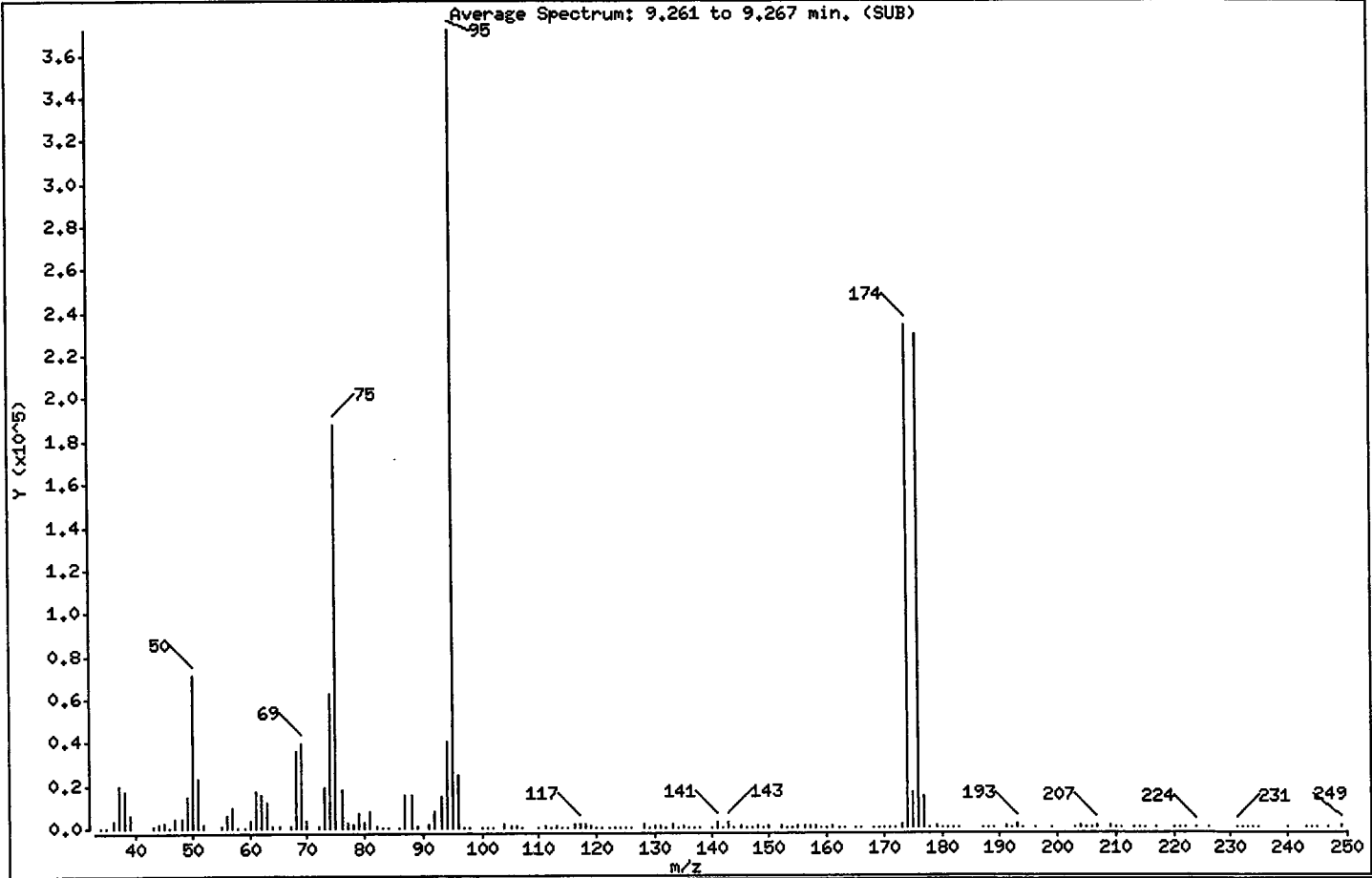
Sample Info: BFB0125

Operator: PC

Column phase: RTXVHS

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	19.23
75	30.00 - 66.00% of mass 95	50.37
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.39 (0.62)
174	50.00 - 101.00% of mass 95	63.00
175	4.00 - 9.00% of mass 174	4.49 (7.13)
176	93.00 - 101.00% of mass 174	61.71 (97.95)
177	5.00 - 9.00% of mass 176	4.01 (6.50)

Date : 25-JAN-2011 09:45

Client ID: BFB0125

Instrument: nt7.i

Sample Info: BFB0125

Operator: PC

Column phase: RTXVHS

Column diameter: 0.18

Data File: 0125001.d

Spectrum: Average Spectrum: 9.261 to 9.267 min. (SUB)

Location of Maximum: 95.00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	98	84.00	82	134.00	302	181.00	168
35.00	147	86.00	284	135.00	806	182.00	138
36.00	3278	87.00	15388	136.00	341	183.00	195
37.00	19352	88.00	15017	137.00	19	187.00	174
38.00	16944	89.00	703	138.00	164	188.00	143
39.00	6087	91.00	1493	140.00	118	189.00	337
43.00	611	92.00	7763	141.00	2753	191.00	847
44.00	2098	93.00	14313	142.00	170	192.00	399
45.00	2959	94.00	40304	143.00	2665	193.00	1553
46.00	376	95.00	371712	144.00	46	194.00	164
47.00	4473	96.00	24960	145.00	495	196.00	353
48.00	4150	97.00	409	146.00	40	199.00	98
49.00	14532	98.00	50	147.00	177	203.00	61
50.00	71464	100.00	172	148.00	905	204.00	509
51.00	23056	101.00	197	149.00	24	205.00	3
52.00	1347	102.00	278	150.00	616	206.00	231
55.00	1052	104.00	1616	152.00	471	207.00	989
56.00	6307	105.00	637	153.00	426	209.00	528
57.00	9560	106.00	1182	154.00	106	210.00	234
58.00	212	107.00	331	155.00	921	211.00	115
59.00	157	110.00	79	156.00	430	213.00	192
60.00	3704	111.00	458	157.00	829	214.00	84
61.00	16760	112.00	428	158.00	593	215.00	52
62.00	15458	113.00	691	159.00	263	217.00	67
63.00	11962	114.00	112	160.00	239	220.00	230
64.00	1190	115.00	349	161.00	536	221.00	112
65.00	547	116.00	1487	162.00	23	222.00	241
67.00	548	117.00	1611	163.00	271	224.00	321
68.00	36328	118.00	1293	165.00	134	226.00	87
69.00	39280	119.00	604	166.00	50	231.00	211
70.00	3074	120.00	105	168.00	68	232.00	100
72.00	668	121.00	300	169.00	194	233.00	78
73.00	18864	122.00	83	170.00	3	234.00	80
74.00	62344	123.00	136	171.00	88	235.00	74
75.00	187200	124.00	215	172.00	191	240.00	99

Date : 25-JAN-2011 09:45

Client ID: BFB0125

Instrument: nt7.i

Sample Info: BFB0125

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0125001.d

Spectrum: Average Spectrum: 9.261 to 9.267 min. (SUB)

Location of Maximum: 95.00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	17704	125.00	335	173.00	1451	243.00	42
77.00	2817	126.00	409	174.00	234176	244.00	77
78.00	1776	128.00	1421	175.00	16696	245.00	65
79.00	6813	129.00	247	176.00	229376	247.00	57
80.00	2273	130.00	734	177.00	14915	249.00	878
81.00	7503	131.00	924	178.00	373		
82.00	590	132.00	258	179.00	456		
83.00	332	133.00	1713	180.00	131		

Data File: /chem1/nt7.i/25JAN2011.b/0125001.d

Date : 25-JAN-2011 09:45

Client ID: BFB0125

Sample Info: BFB0125

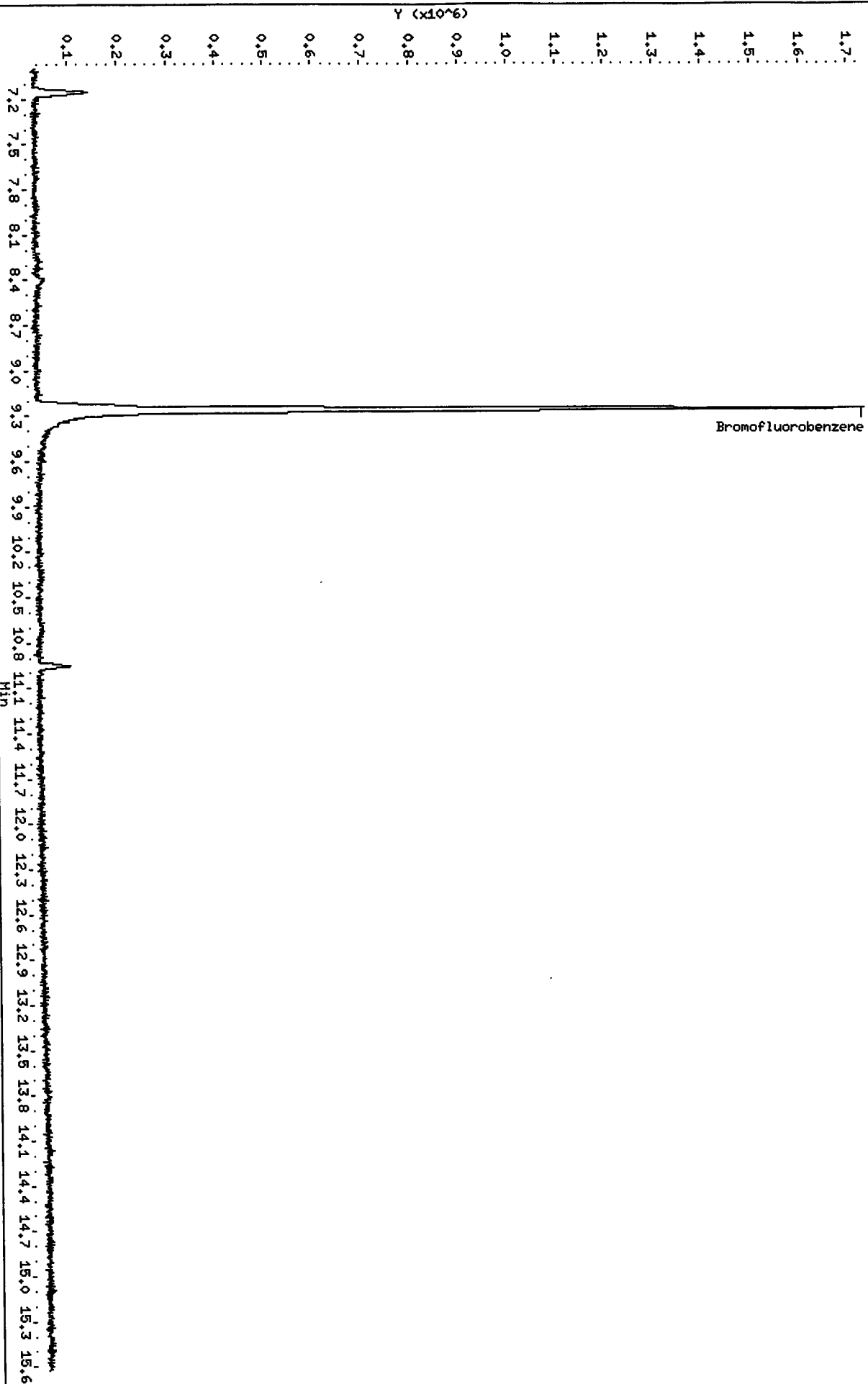
Instrument: nt7.i

Operator: PC

Column diameter: 0.18

Column phase: RTXVHS

/chem1/nt7.i/25JAN2011.b/0125001.d



12 11 10 9 8 7 6 5 4 3 2 1 0

PG
1/25/11

Data File: /chem1/nt7.i/25JAN2011.b/0125005.d
Report Date: 25-Jan-2011 16:19

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125005.d
Lab Smp Id: 05000125 Client Smp ID: VSTD500
Inj Date : 25-JAN-2011 12:28
Operator : PC Inst ID: nt7.i
Smp Info : 05000125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 12:28 Cal File: 0125005.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.552	1.551	(0.292)	128049	500.000	489.23
2 1,1-Dichloroethene	96		2.504	2.505	(0.471)	97530	500.000	501.93
175 Trans-1,2-Dichloroethene	96		3.278	3.285	(0.617)	107419	500.000	498.89
3 cis-1,2-dichloroethene	96		4.433	4.434	(0.834)	110472	500.000	500.97
6 Benzene	78		5.202	5.201	(0.906)	472373	500.000	483.21
* 4 Pentafluorobenzene	168		5.316	5.315	(1.000)	335674	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.316	5.325	(1.000)	184829	1000.00	1030.2 (M)
176 1,2-Dichloroethane	62		5.373	5.381	(1.011)	139051	500.000	517.86
8 Trichloroethene	130		5.709	5.710	(0.994)	107768	500.000	498.53
* 7 1,4-Difluorobenzene	114		5.743	5.745	(1.000)	522688	1000.00	
\$ 9 d8-Toluene	98		6.891	6.902	(1.200)	570289	1000.00	973.31
10 Tetrachloroethene	166		7.260	7.258	(1.264)	95798	500.000	510.18
11 1,1,2,2-Tetrachloroethane	83		9.447	9.445	(1.645)	64046	500.000	500.30

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0125005.d
Lab Smp Id: 05000125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 25-JAN-2011
Calibration Time: 15:10
Client Smp ID: VSTD500
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	335674	0.41
7 1,4-Difluorobenze	528497	264248	1056994	522688	-1.10

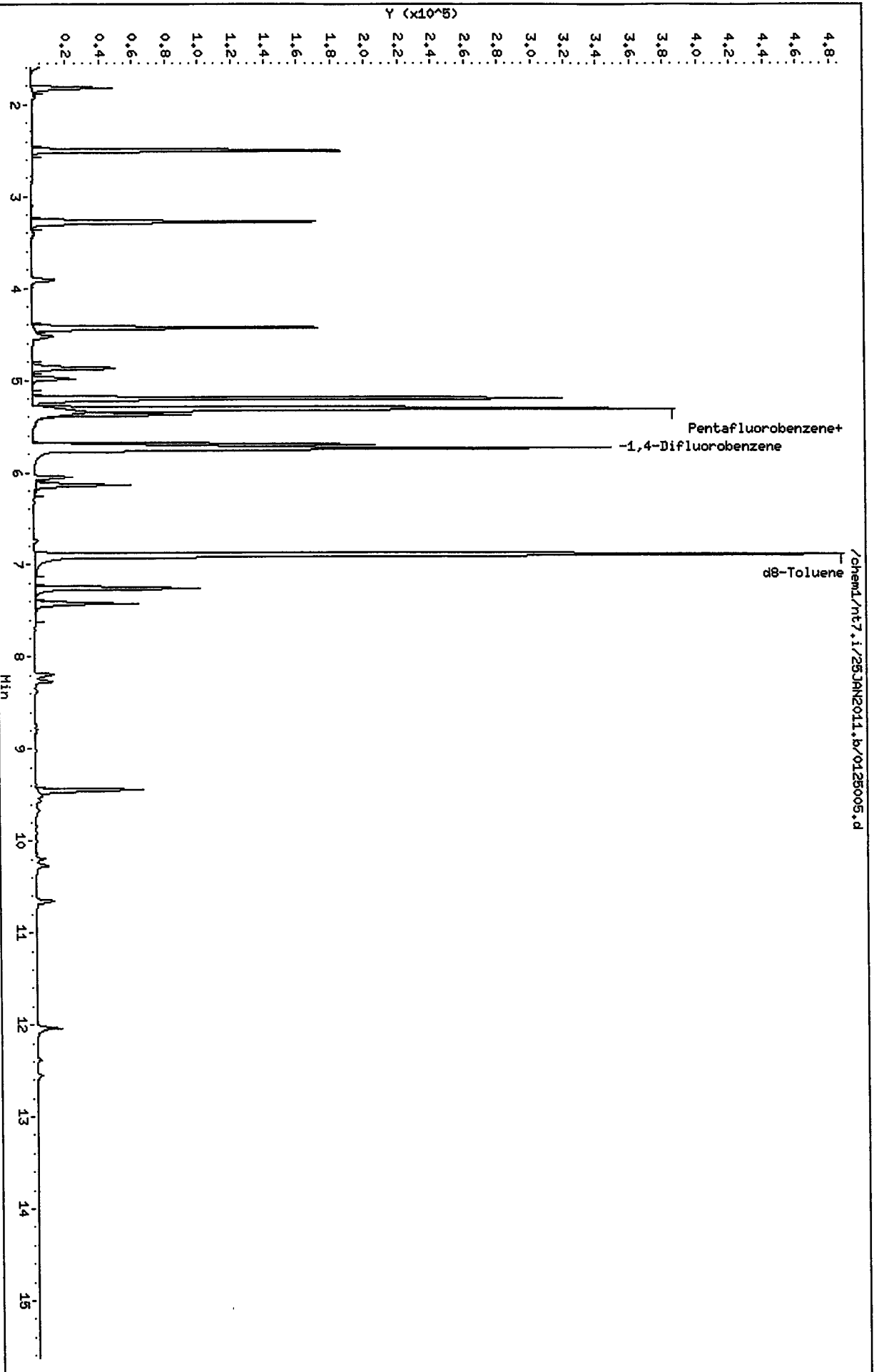
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	-0.02

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/nt7.i/25JAN2011.b/0125005.d
Date : 25-JAN-2011 12:28
Client ID: VSTD500
Sample Info: 05000125,10,10,0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



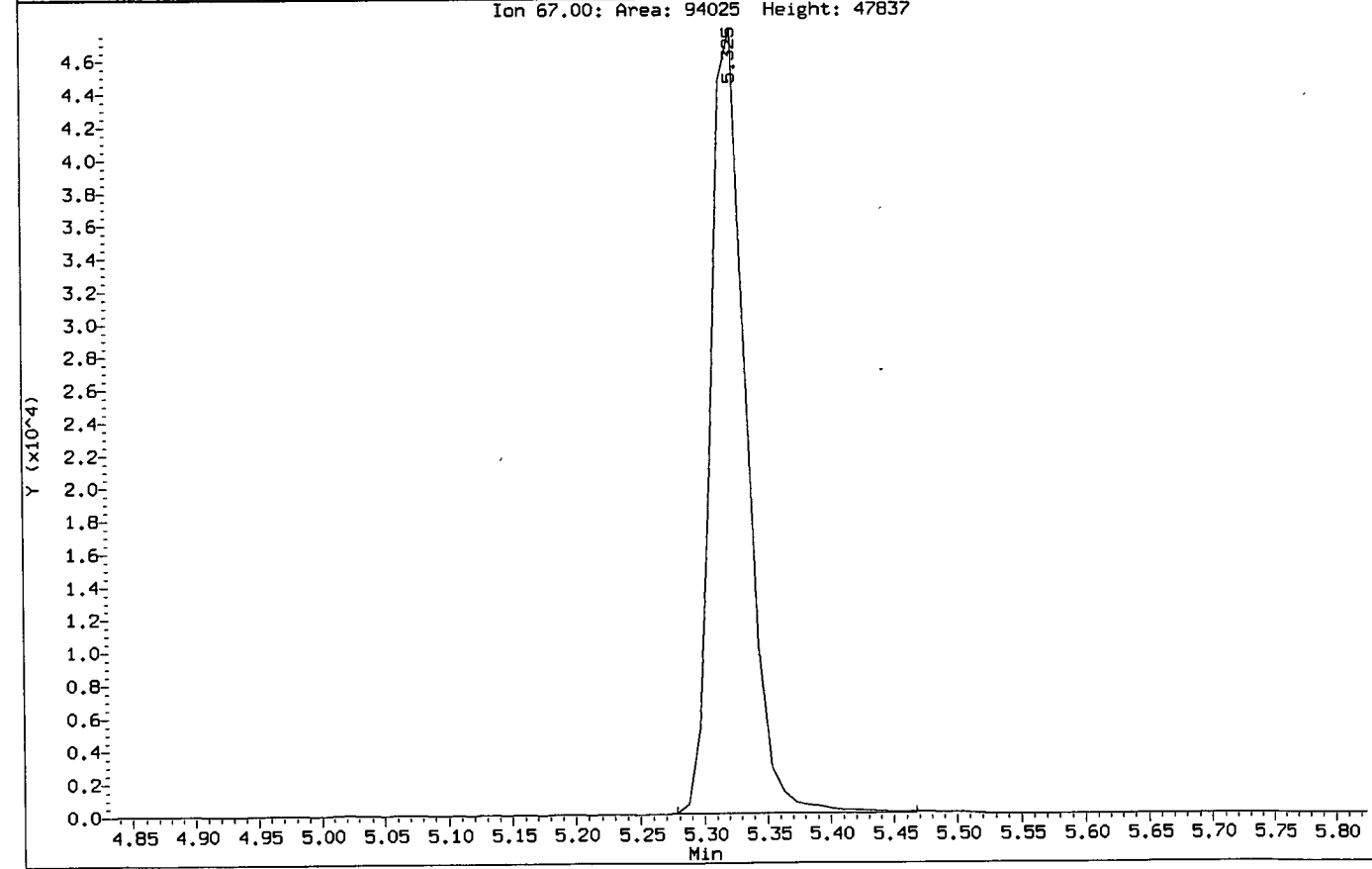
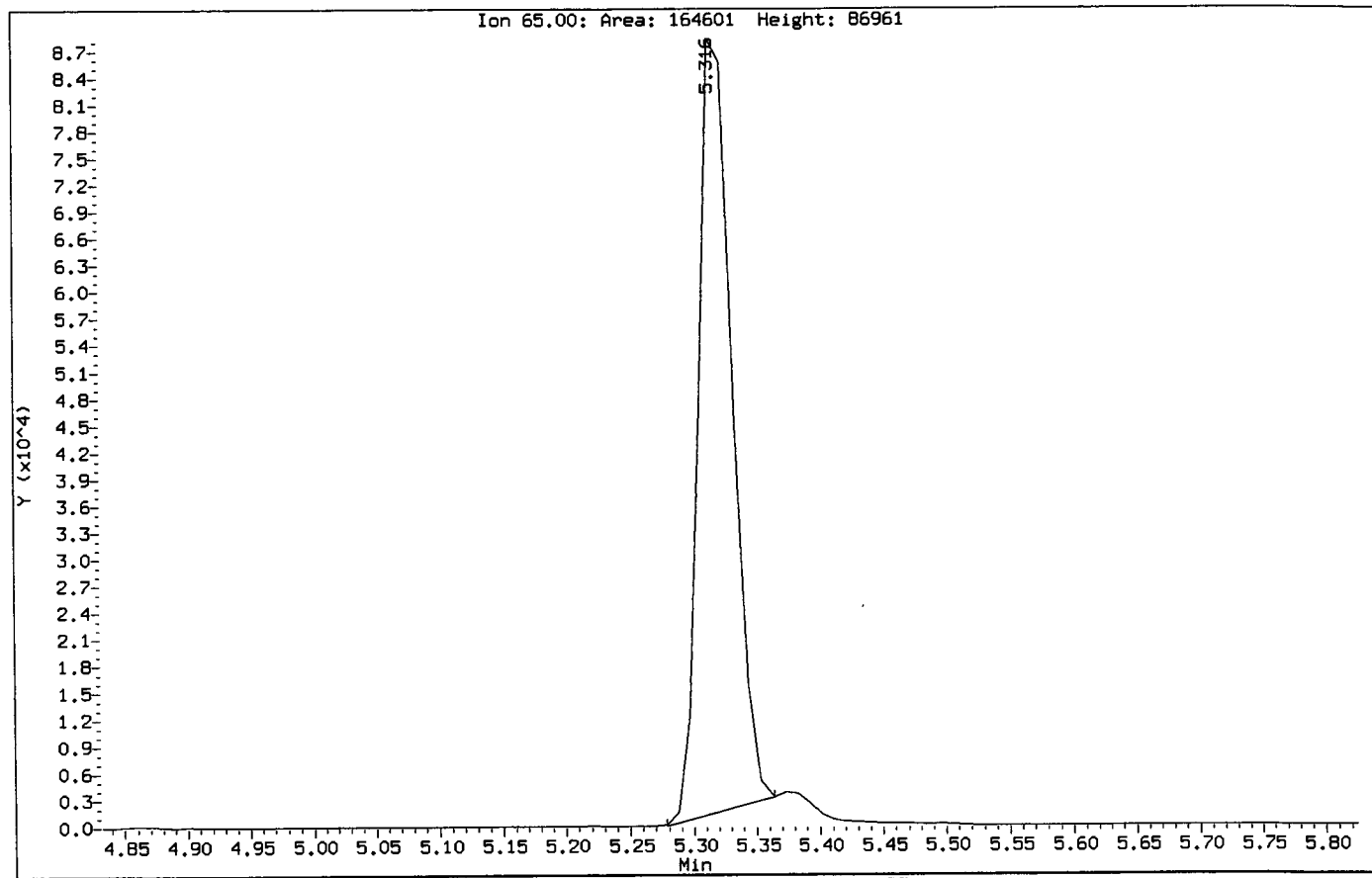
/chem1/nt7.i/25JAN2011.b/0125005.d

01 10 00 00 00 00

Data File: /chem1/nt7.1/25JAN2011.b/0125005.d
Injection Date: 25-JAN-2011 12:28
Instrument: nt7.1
Client Sample ID: VSTD500

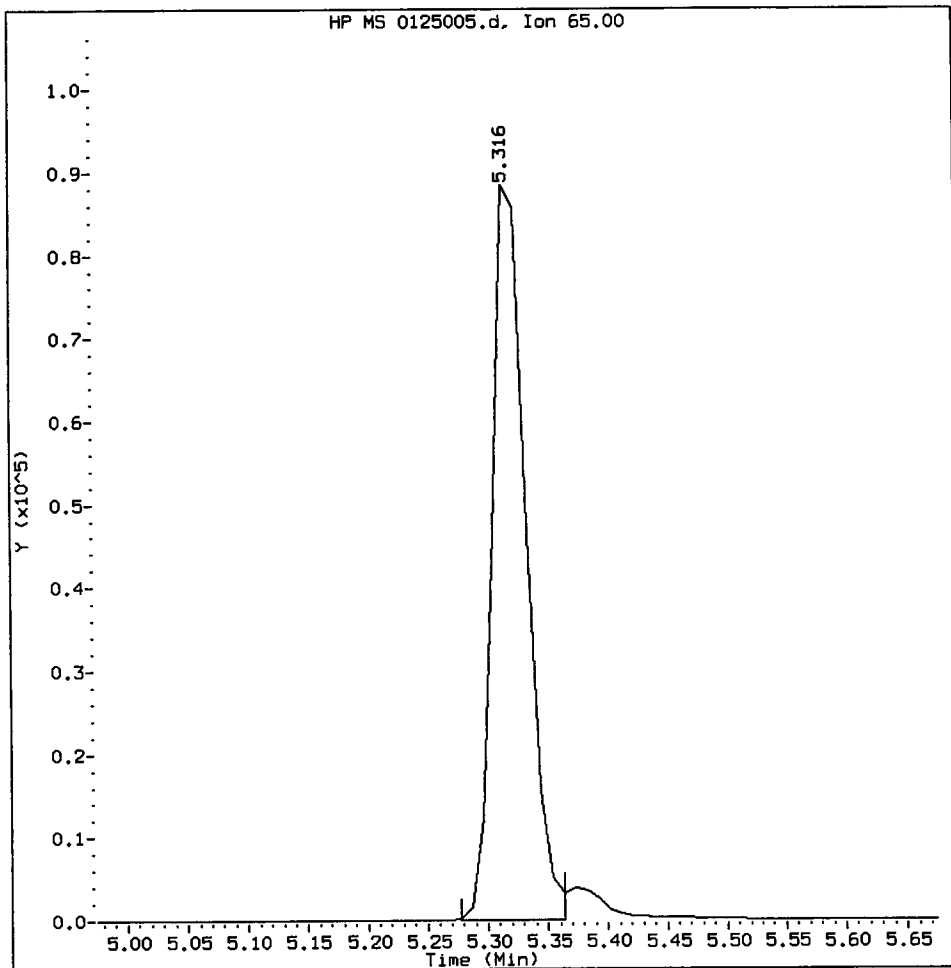
PC
2/25/11

Compound: d4-1,2-Dichloroethane
CAS Number:



05000125, /chem1/nt7.i/25JAN2011.b/0125005.d

d4-1,2-Dichloroethane Amount: 1030.22 Area: 184829



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: PL

Date: 1/25/11

CO-ELUTION SUMMARY FOR FILE - 0125005.d

Lab ID: 05000125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

PL
1/25/11

Data File: /chem1/nt7.i/25JAN2011.b/0125006.d
Report Date: 25-Jan-2011 16:19

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125006.d
Lab Smp Id: 01000125 Client Smp ID: VSTD100
Inj Date : 25-JAN-2011 12:55 Inst ID: nt7.i
Operator : PC
Smp Info : 01000125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 12:55 Cal File: 0125006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000 Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.551	1.551	(0.292)	24561	100.000	95.345
2 1,1-Dichloroethene	96	2.505	2.505	(0.471)	19007	100.000	99.388
175 Trans-1,2-Dichloroethene	96	3.284	3.285	(0.618)	21434	100.000	101.14
3 cis-1,2-dichloroethene	96	4.434	4.434	(0.834)	21543	100.000	99.261
6 Benzene	78	5.211	5.201	(0.907)	95501	100.000	100.79
* 4 Pentafluorobenzene	168	5.315	5.315	(1.000)	330373	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	184542	1000.00	1045.1
176 1,2-Dichloroethane	62	5.381	5.381	(1.012)	25780	100.000	97.552
8 Trichloroethene	130	5.709	5.710	(0.994)	21119	100.000	100.80
* 7 1,4-Difluorobenzene	114	5.744	5.745	(1.000)	506616	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	566938	1000.00	998.29
10 Tetrachloroethene	166	7.270	7.258	(1.266)	18354	100.000	100.85
11 1,1,2,2-Tetrachloroethane	83	9.457	9.445	(1.646)	11314	100.000	91.184

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0125006.d
 Lab Smp Id: 01000125
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
 Misc Info: 11-

Calibration Date: 25-JAN-2011
 Calibration Time: 15:10
 Client Smp ID: VSTD100
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	330373	-1.17
7 1,4-Difluorobenze	528497	264248	1056994	506616	-4.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	-0.01

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/nt7.1/25JAN2011.b/0125006.d

Date: 25-JAN-2011 12:55

Client ID: VSTD100

Sample Info: 01000125,10,10,0

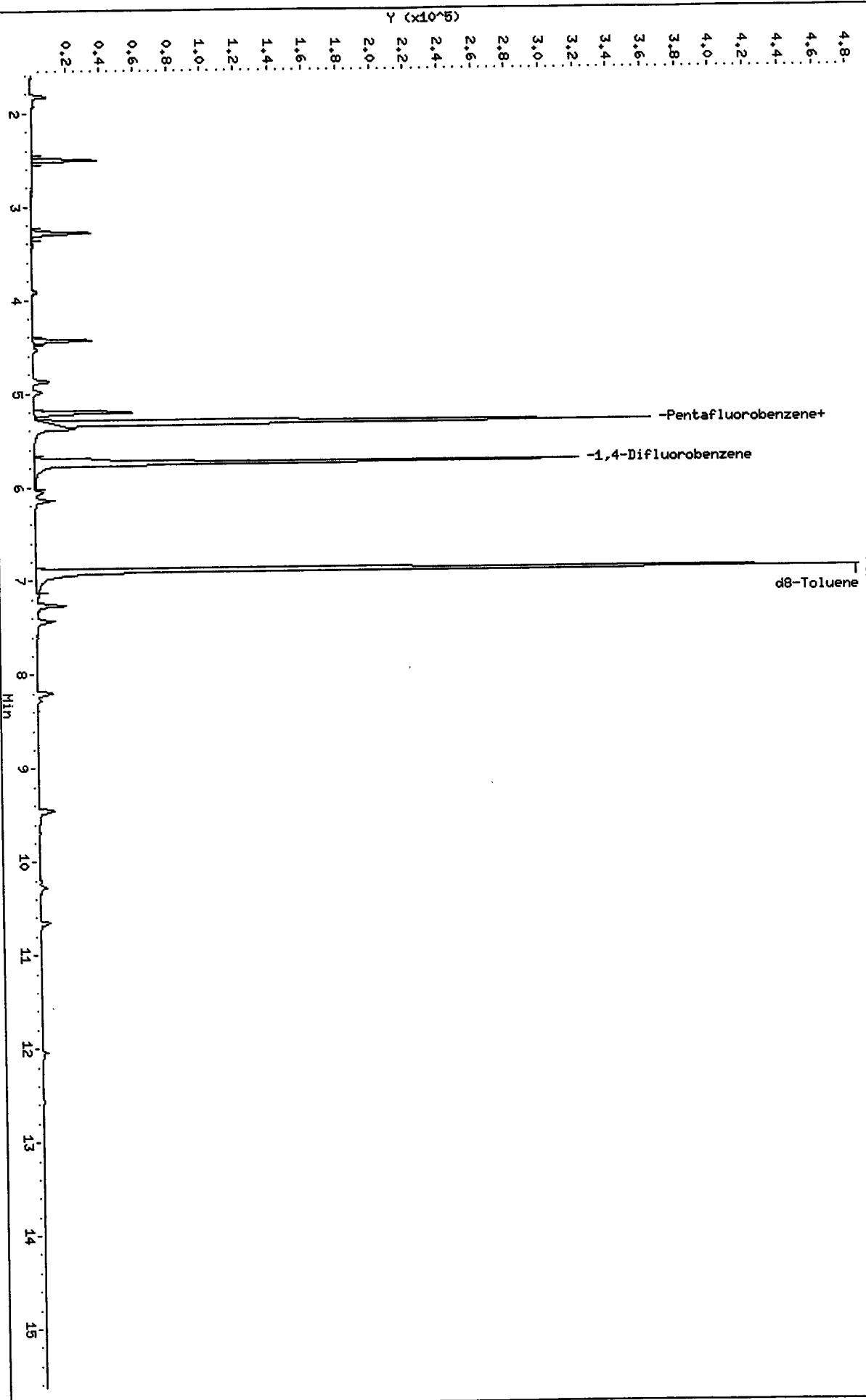
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

/chem1/nt7.1/25JAN2011.b/0125006.d



10:20:00

CO-ELUTION SUMMARY FOR FILE - 0125006.d

Lab ID: 01000125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

1/25/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125007.d
Lab Smp Id: 00500125 Client Smp ID: VSTD50
Inj Date : 25-JAN-2011 13:23
Operator : PC Inst ID: nt7.i
Smp Info : 00500125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 13:23 Cal File: 0125007.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Compound Sublist: sim12dca.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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.552	1.551	(0.292)	11657	50.0000	44.995
2 1,1-Dichloroethene	96		2.504	2.505	(0.471)	8916	50.0000	46.357
175 Trans-1,2-Dichloroethene	96		3.289	3.285	(0.619)	9994	50.0000	46.892
3 cis-1,2-dichloroethene	96		4.433	4.434	(0.834)	10087	50.0000	46.212
6 Benzene	78		5.212	5.201	(0.906)	46156	50.0000	48.170
* 4 Pentafluorobenzene	168		5.316	5.315	(1.000)	332262	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.325	(1.002)	178831	1000.00	1007.0
176 1,2-Dichloroethane	62		5.382	5.381	(1.012)	11783	50.0000	44.333
8 Trichloroethene	130		5.708	5.710	(0.992)	10139	50.0000	47.852
* 7 1,4-Difluorobenzene	114		5.754	5.745	(1.000)	512322	1000.00	
\$ 9 d8-Toluene	98		6.903	6.902	(1.200)	566811	1000.00	986.95
10 Tetrachloroethene	166		7.271	7.258	(1.264)	8800	50.0000	47.814
11 1,1,2,2-Tetrachloroethane	83		9.458	9.445	(1.644)	5036	50.0000	40.135

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0125007.d
 Lab Smp Id: 00500125
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
 Misc Info: 11-

Calibration Date: 25-JAN-2011
 Calibration Time: 15:10
 Client Smp ID: VSTD50
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	332262	-0.61
7 1,4-Difluorobenze	528497	264248	1056994	512322	-3.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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/nt7.1/25JAN2011.b/0125007.d

Date: 25-JAN-2011 13:23

Client ID: VSTID50

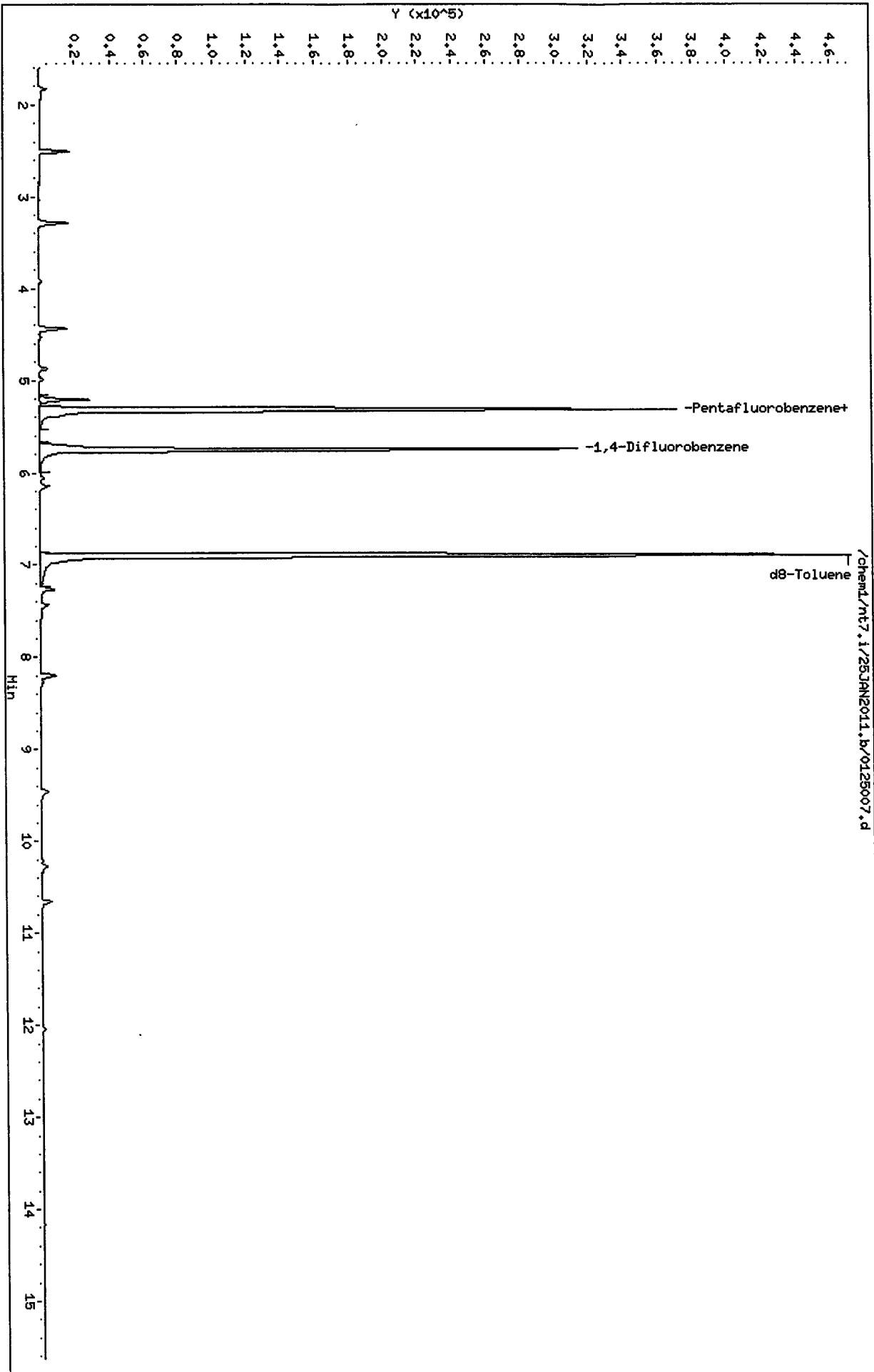
Sample Info: 00500125,10,10,0

Column phase: RTXWMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



00000000000000000000000000000000

CO-ELUTION SUMMARY FOR FILE - 0125007.d

Lab ID: 00500125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/25/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125008.d
Lab Smp Id: 00200125 Client Smp ID: VSTD20
Inj Date : 25-JAN-2011 13:50
Operator : PC Inst ID: nt7.i
Smp Info : 00200125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 13:50 Cal File: 0125008.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.552	1.551	(0.292)	4874	20.0000	19.268
2 1,1-Dichloroethene	96		2.505	2.505	(0.471)	3883	20.0000	20.677
175 Trans-1,2-Dichloroethene	96		3.285	3.285	(0.618)	4183	20.0000	20.101
3 cis-1,2-dichloroethene	96		4.434	4.434	(0.834)	4349	20.0000	20.406
6 Benzene	78		5.210	5.201	(0.907)	20696	20.0000	22.078
* 4 Pentafluorobenzene	168		5.315	5.315	(1.000)	324417	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.324	5.325	(1.002)	174283	1000.00	1005.1
176 1,2-Dichloroethane	62		5.381	5.381	(1.012)	4926	20.0000	18.982
8 Trichloroethene	130		5.709	5.710	(0.994)	4312	20.0000	20.802
* 7 1,4-Difluorobenzene	114		5.744	5.745	(1.000)	501208	1000.00	
\$ 9 d8-Toluene	98		6.902	6.902	(1.202)	560412	1000.00	997.44
10 Tetrachloroethene	166		7.270	7.258	(1.266)	3569	20.0000	19.822
11 1,1,1,2,2-Tetrachloroethane	83		9.469	9.445	(1.648)	2129	20.0000	17.344

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0125008.d
Lab Smp Id: 00200125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 25-JAN-2011
Calibration Time: 15:10
Client Smp ID: VSTD20
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	324417	-2.95
7 1,4-Difluorobenze	528497	264248	1056994	501208	-5.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	-0.01

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/ht7.i/25JAN2011.b/0125008.d

Date : 25-JAN-2011 13:50

Client ID: VSTD20

Sample Info: 00200125,10,10,0

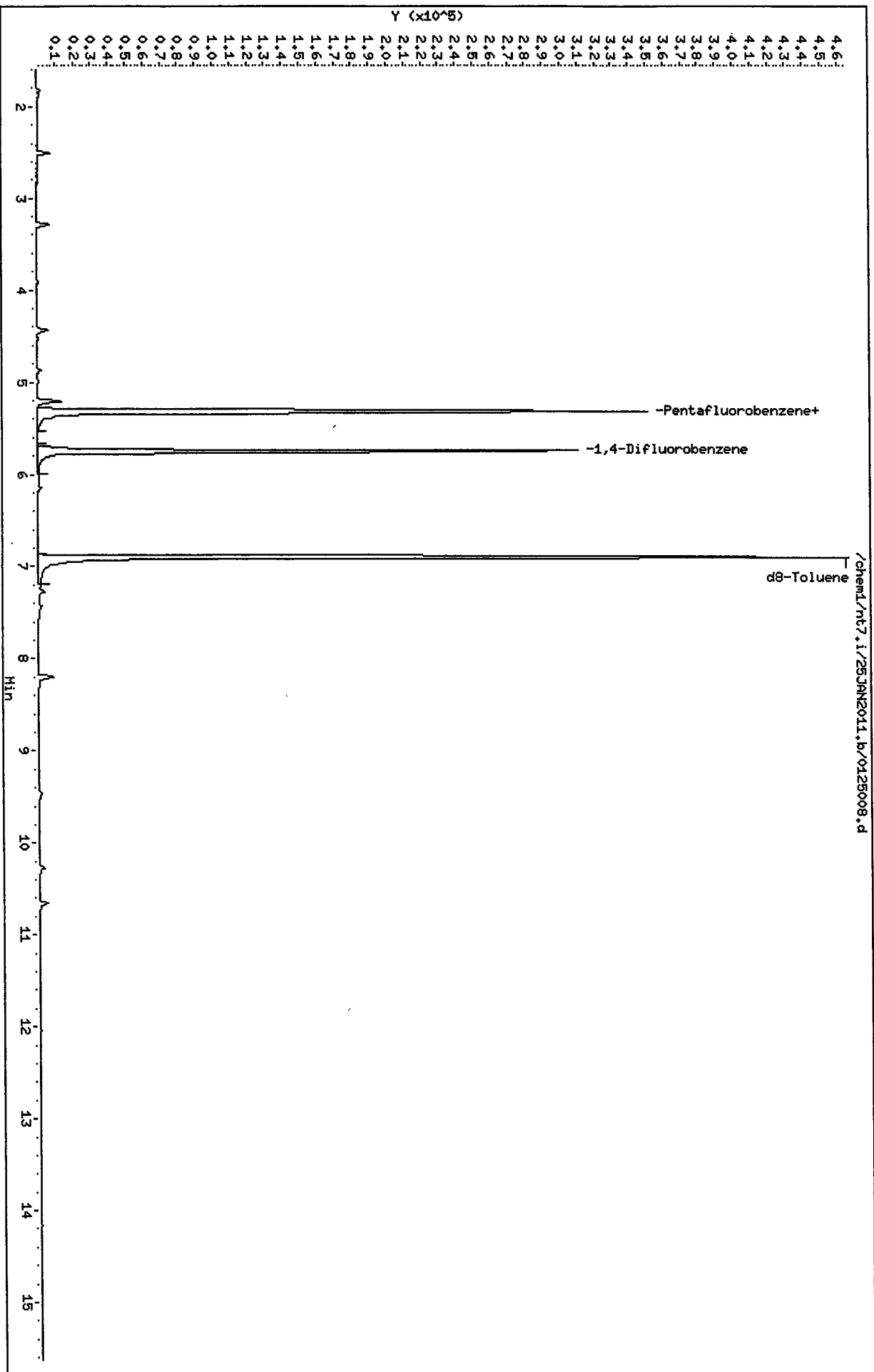
Column phase: RTXVMS

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Instrument: ht7.i

Operator: PC

Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0125008.d

Lab ID: 00200125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/28/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125009.d
 Lab Smp Id: 40000125 Client Smp ID: VSTD4000
 Inj Date : 25-JAN-2011 14:15
 Operator : PC Inst ID: nt7.i
 Smp Info : 40000125,10,10,0
 Misc Info : 11-
 Comment :
 Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
 Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 14:15 Cal File: 0125009.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.552	1.551	(0.292)	1061251	4000.00	4163.2
2 1,1-Dichloroethene	96	2.509	2.505	(0.472)	742463	4000.00	3923.3
175 Trans-1,2-Dichloroethene	96	3.289	3.285	(0.619)	823745	4000.00	3928.1
3 cis-1,2-dichloroethene	96	4.433	4.434	(0.834)	847350	4000.00	3945.4
6 Benzene	78	5.202	5.201	(0.906)	3634738	4000.00	3828.7
* 4 Pentafluorobenzene	168	5.316	5.315	(1.000)	326924	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	176945	1000.00	1012.7 (M)
176 1,2-Dichloroethane	62	5.382	5.381	(1.012)	1062605	4000.00	4063.3
8 Trichloroethene	130	5.710	5.710	(0.994)	808470	4000.00	3851.2
* 7 1,4-Difluorobenzene	114	5.744	5.745	(1.000)	507593	1000.00	
\$ 9 d8-Toluene	98	6.891	6.902	(1.200)	577852	1000.00	1015.5
10 Tetrachloroethene	166	7.260	7.258	(1.264)	720083	4000.00	3948.9
11 1,1,2,2-Tetrachloroethane	83	9.447	9.445	(1.644)	570660	4000.00	4590.3

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0125009.d
Lab Smp Id: 40000125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 25-JAN-2011
Calibration Time: 15:10
Client Smp ID: VSTD4000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	326924	-2.20
7 1,4-Difluorobenze	528497	264248	1056994	507593	-3.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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/nt7.1/25JAN2011.b/0125009.d

Date : 25-JAN-2011 14:15

Client ID: VSTD4000

Sample Info: 40000125,10,10.0

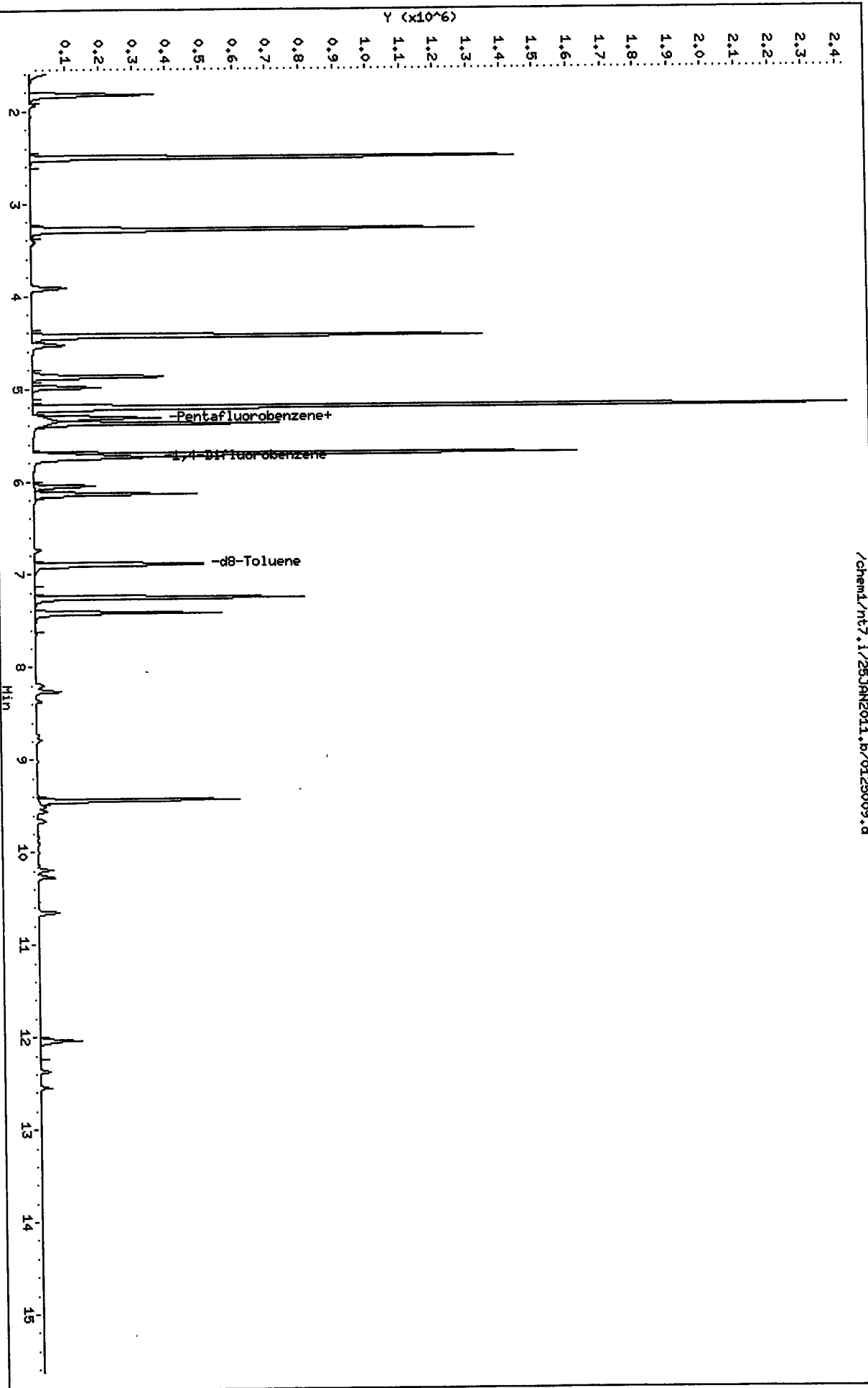
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

/chem1/nt7.1/25JAN2011.b/0125009.d

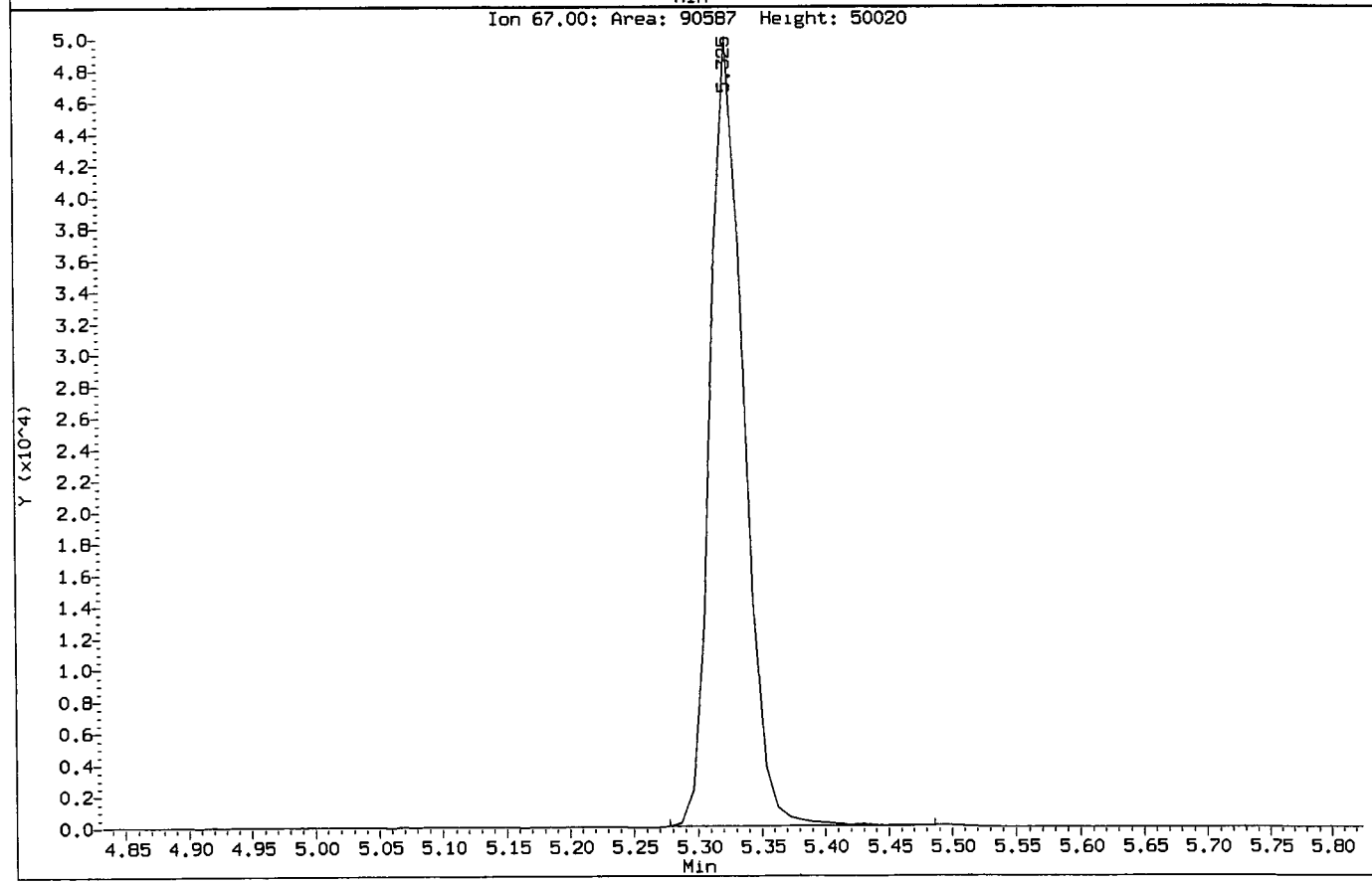
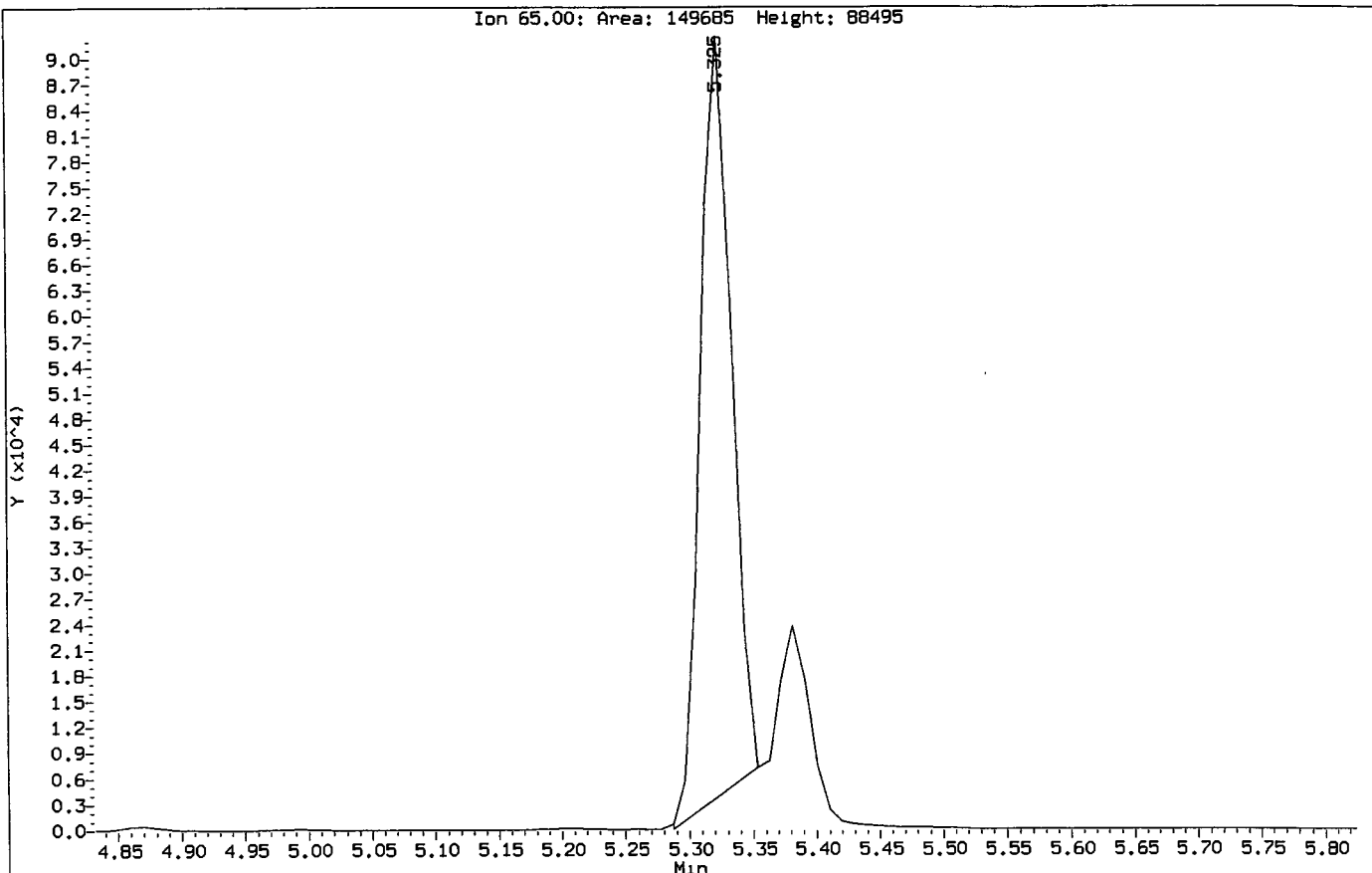


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1/25/11

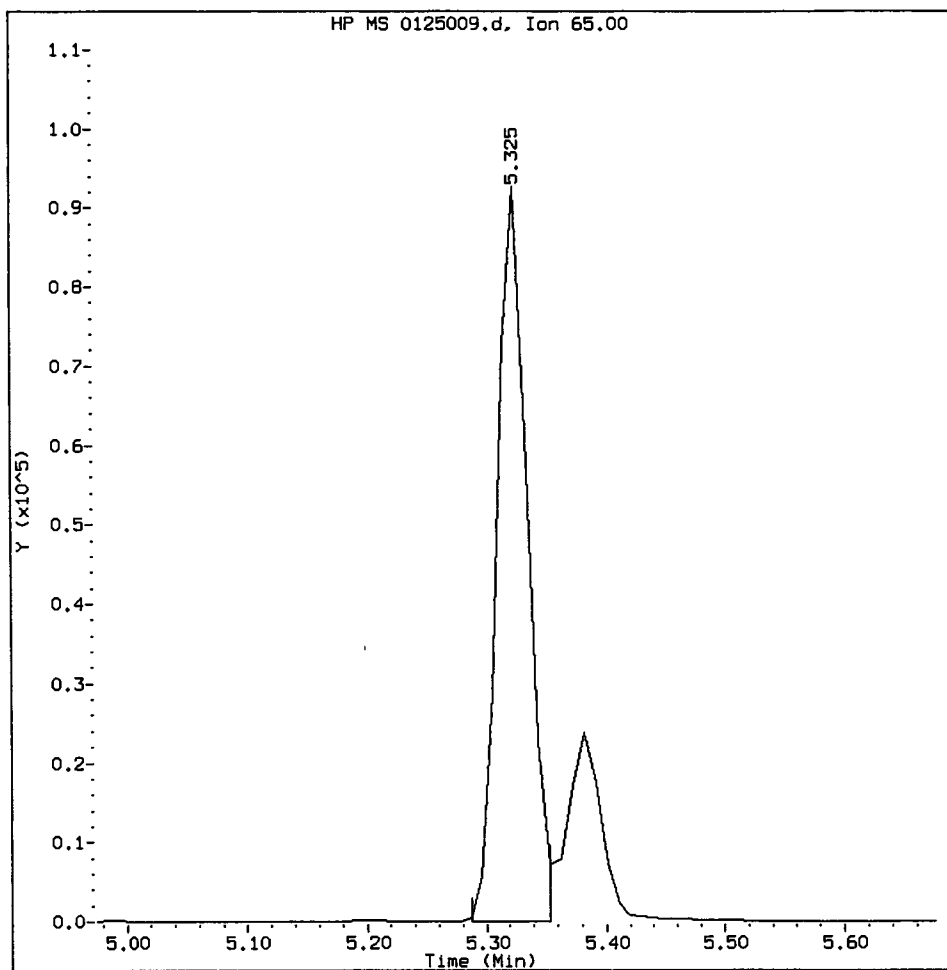
Data File: /chem1/nt7.1/25JAN2011.b/0125009.d
Injection Date: 25-JAN-2011 14:15
Instrument: nt7.1
Client Sample ID: VSTD4000

Compound: d4-1,2-Dichloroethane
CAS Number:



40000125, /chem1/nt7.i/25JAN2011.b/0125009.d

d4-1,2-Dichloroethane Amount: 1012.68 Area: 176945



MANUAL INTEGRATION for d4-1,2-Dichloroethane

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: RL

Date: 1/25/11

CO-ELUTION SUMMARY FOR FILE - 0125009.d

Lab ID: 40000125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

PG
1/25/11

Data File: /chem1/nt7.i/25JAN2011.b/0125010.d
Report Date: 25-Jan-2011 16:19

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125010.d
Lab Smp Id: 20000125 Client Smp ID: VSTD2000
Inj Date : 25-JAN-2011 14:42
Operator : PC Inst ID: nt7.i
Smp Info : 20000125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 14:42 Cal File: 0125010.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.552	1.551	(0.292)	582221	2000.00	2217.1
2 1,1-Dichloroethene	96	2.510	2.505	(0.472)	410138	2000.00	2103.8
175 Trans-1,2-Dichloroethene	96	3.284	3.285	(0.618)	454680	2000.00	2104.7
3 cis-1,2-dichloroethene	96	4.434	4.434	(0.834)	465851	2000.00	2105.5
6 Benzene	78	5.203	5.201	(0.904)	1990619	2000.00	2056.3
* 4 Pentafluorobenzene	168	5.316	5.315	(1.000)	336791	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	156774	1000.00	870.95
176 1,2-Dichloroethane	62	5.383	5.381	(1.012)	580740	2000.00	2155.6
8 Trichloroethene	130	5.709	5.710	(0.992)	449125	2000.00	2098.1
* 7 1,4-Difluorobenzene	114	5.755	5.745	(1.000)	517603	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	592788	1000.00	1021.6
10 Tetrachloroethene	166	7.258	7.258	(1.261)	386671	2000.00	2079.5
11 1,1,2,2-Tetrachloroethane	83	9.445	9.445	(1.641)	305787	2000.00	2412.1

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0125010.d
Lab Smp Id: 20000125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 25-JAN-2011
Calibration Time: 15:10
Client Smp ID: VSTD2000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	336791	0.75
7 1,4-Difluorobenze	528497	264248	1056994	517603	-2.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.18

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/nt7.i/25JAN2011.b/0125010.d

Date: 25-JAN-2011 14:42

Client ID: VSTD2000

Sample Info: 20000125,10,10,0

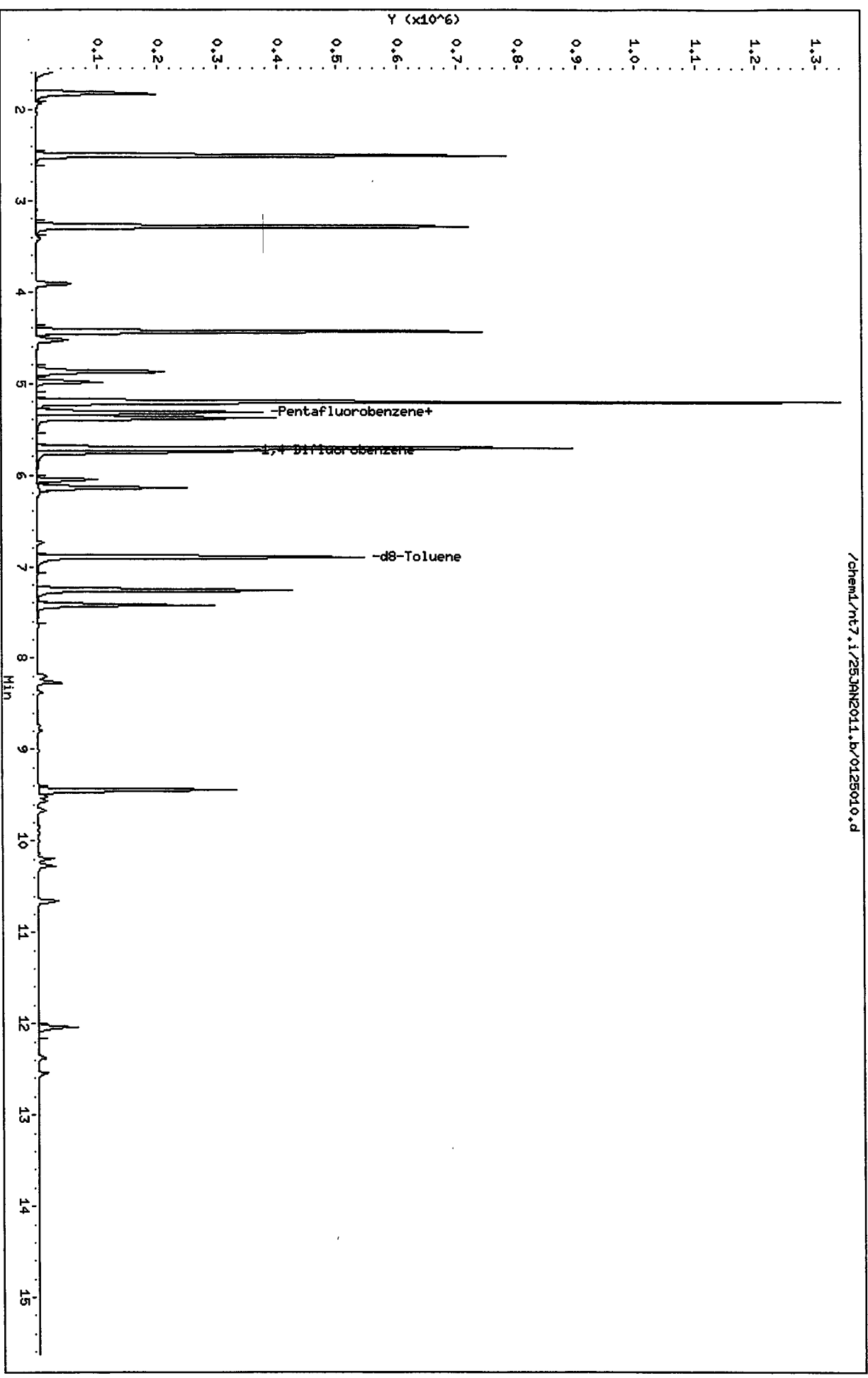
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/25JAN2011.b/0125010.d



11 10 09 08 07 06 05 04 03 02 01

CO-ELUTION SUMMARY FOR FILE - 0125010.d

Lab ID: 20000125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125011.d
 Lab Smp Id: 10000125 Client Smp ID: VSTD1000
 Inj Date : 25-JAN-2011 15:10
 Operator : PC Inst ID: nt7.i
 Smp Info : 10000125,10,10,0
 Misc Info : 11-
 Comment :
 Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
 Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	----	1.551	1.551	(0.292)	275104	1000.00	1055.4
2 1,1-Dichloroethene	96	----	2.505	2.505	(0.471)	195166	1000.00	1008.6
175 Trans-1,2-Dichloroethene	96	----	3.285	3.285	(0.618)	217337	1000.00	1013.5
3 cis-1,2-dichloroethene	96	----	4.434	4.434	(0.834)	224394	1000.00	1021.8
6 Benzene	78	----	5.201	5.201	(0.905)	961808	1000.00	973.06
* 4 Pentafluorobenzene	168	----	5.315	5.315	(1.000)	334294	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	----	5.325	5.325	(1.002)	183824	1000.00	1028.9(M)
176 1,2-Dichloroethane	62	----	5.381	5.381	(1.012)	283271	1000.00	1059.3
8 Trichloroethene	130	----	5.710	5.710	(0.994)	215510	1000.00	985.99
* 7 1,4-Difluorobenzene	114	----	5.745	5.745	(1.000)	528497	1000.00	
\$ 9 d8-Toluene	98	----	6.902	6.902	(1.201)	596484	1000.00	1006.8
10 Tetrachloroethene	166	----	7.258	7.258	(1.264)	189255	1000.00	996.82
11 1,1,2,2-Tetrachloroethane	83	----	9.445	9.445	(1.644)	137729	1000.00	1064.1

Data File: /chem1/nt7.i/25JAN2011.b/0125011.d
Report Date: 25-Jan-2011 16:19

Page 2

QC Flag Legend

M - Compound response manually integrated.

SF26 : 00387

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0125011.d
Lab Smp Id: 10000125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 25-JAN-2011
Calibration Time: 15:10
Client Smp ID: VSTD1000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	334294	0.00
7 1,4-Difluorobenze	528497	264248	1056994	528497	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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/nt7.i/25JAN2011.b/0125011.d

Date: 25-JAN-2011 15:10

Client ID: VSTID1000

Sample Info: 10000125,10,10,0

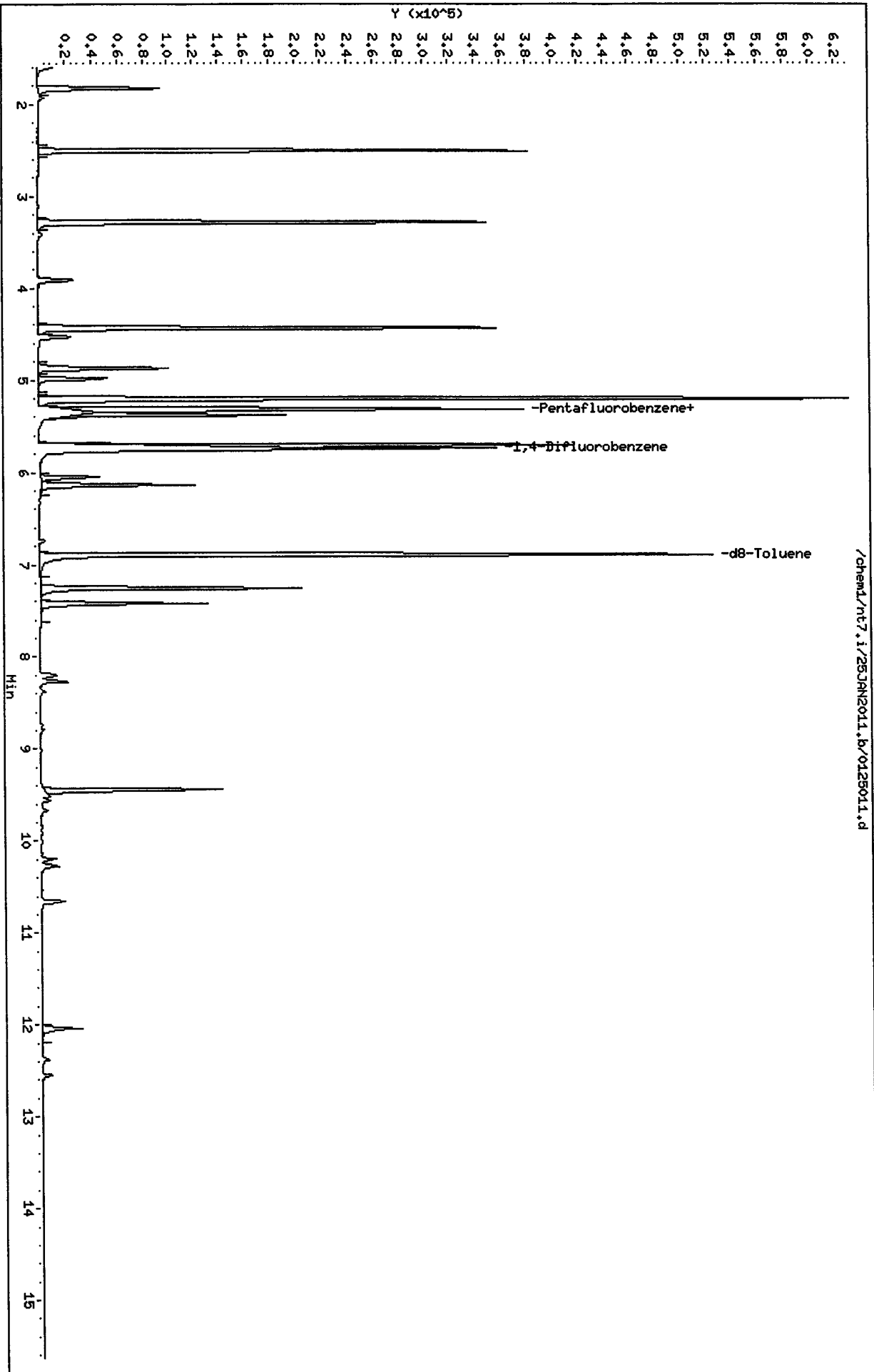
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/25JAN2011.b/0125011.d

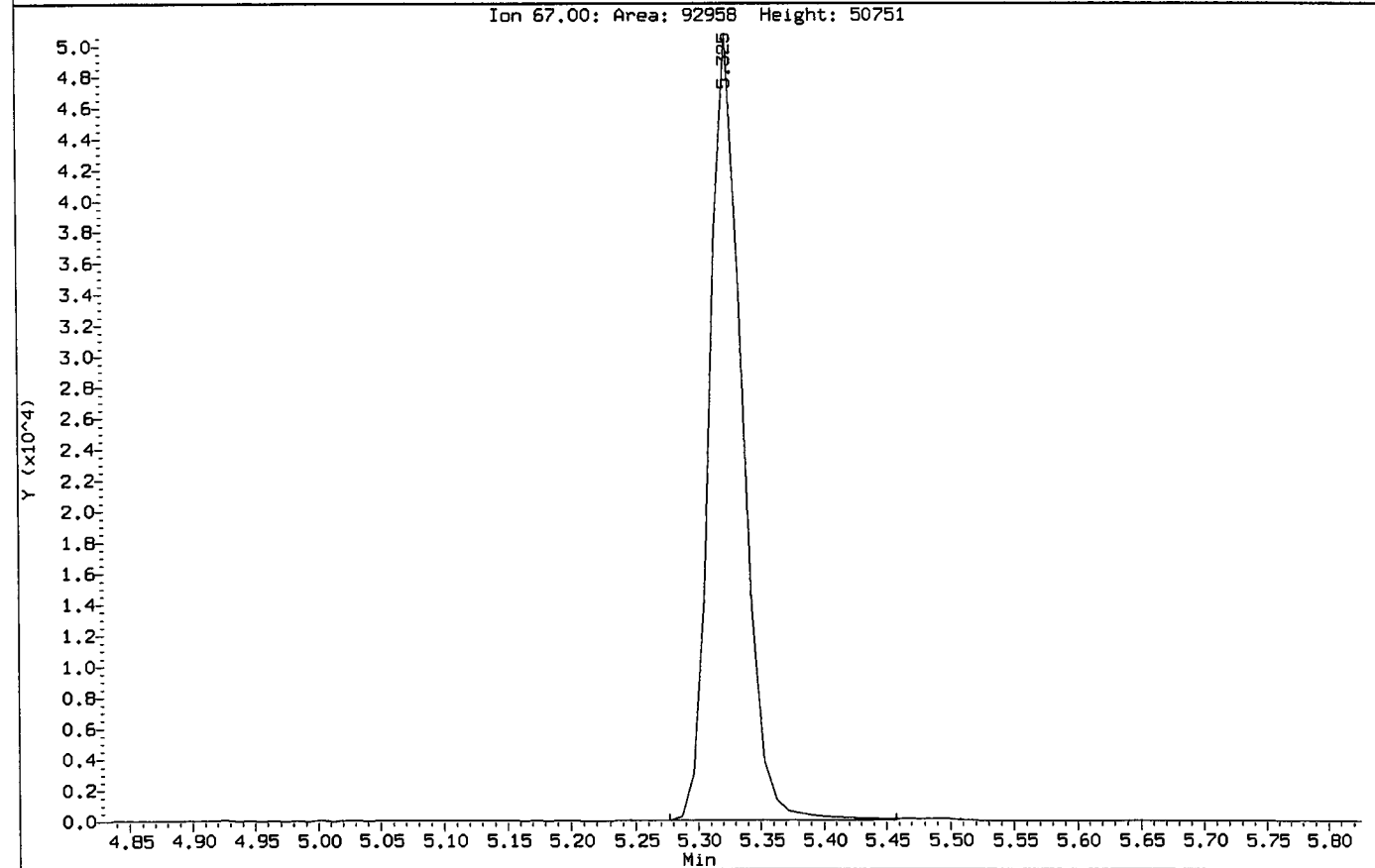
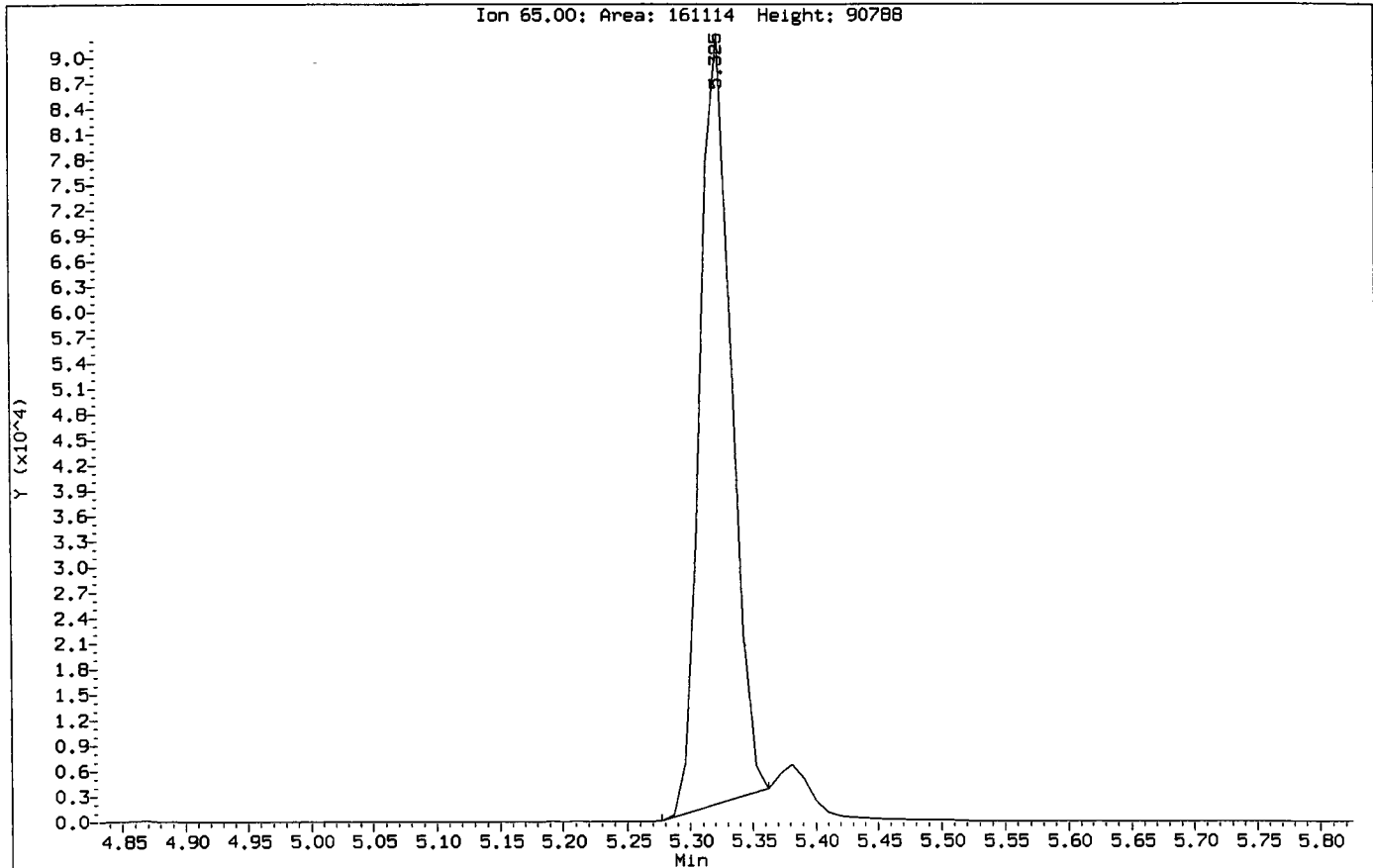


01 00 00 : 02 55

Data File: /chem1/nt7.1/25JAN2011.b/0125011.d
Injection Date: 25-JAN-2011 15:10
Instrument: nt7.1
Client Sample ID: VSTD1000

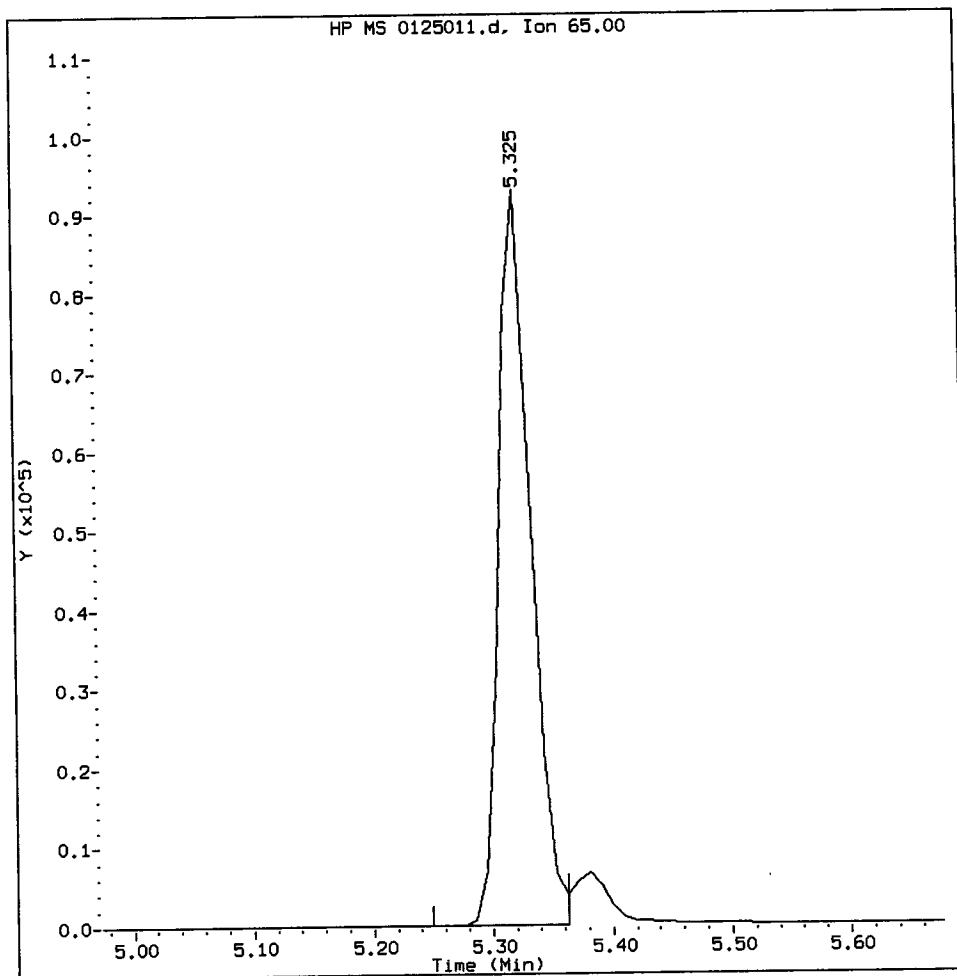
16
1/25/11

Compound: d4-1,2-Dichloroethane
CAS Number:



10000125, /chem1/nt7.i/25JAN2011.b/0125011.d

d4-1,2-Dichloroethane Amount: 1028.85 Area: 183824



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AL

Date: 1/25/11

CO-ELUTION SUMMARY FOR FILE - 0125011.d

Lab ID: 10000125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/25/11

Data File: /chem1/nt7.i/25JAN2011.b/0125012.d
Report Date: 25-Jan-2011 16:19

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/25JAN2011.b/0125012.d
Lab Smp Id: ICV0125 Client Smp ID: ICV1000
Inj Date : 25-JAN-2011 15:38
Operator : PC Inst ID: nt7.i
Smp Info : ICV0125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/25JAN2011.b/sim012511.m
Meth Date : 25-Jan-2011 15:52 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.554	1.551	(0.292)	328935	1293.29	1293.3(R)
2 1,1-Dichloroethene	96	2.510	2.505	(0.472)	225033	1191.79	1191.8
175 Trans-1,2-Dichloroethene	96	3.284	3.285	(0.618)	215801	1031.38	1031.4
3 cis-1,2-dichloroethene	96	4.433	4.434	(0.834)	240199	1120.93	1120.9
6 Benzene	78	5.203	5.201	(0.904)	981734	1043.80	1043.8
* 4 Pentafluorobenzene	168	5.316	5.315	(1.000)	326190	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	158275	907.862	907.86
176 1,2-Dichloroethane	62	5.383	5.381	(1.012)	287211	1100.75	1100.7
8 Trichloroethene	130	5.708	5.710	(0.992)	223539	1074.82	1074.8
* 7 1,4-Difluorobenzene	114	5.755	5.745	(1.000)	502883	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	579182	1027.41	1027.4
10 Tetrachloroethene	166	7.259	7.258	(1.261)	187861	1039.88	1039.9
11 1,1,2,2-Tetrachloroethane	83	9.446	9.445	(1.641)	145695	1182.93	1182.9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 25-JAN-2011
Lab File ID: 0125012.d	Calibration Time: 15:10
Lab Smp Id: ICV0125	Client Smp ID: ICV1000
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m	
Misc Info: 11-	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	326190	-2.42
7 1,4-Difluorobenze	528497	264248	1056994	502883	-4.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: 25JAN2011
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV0125 Client Smp ID: ICV1000
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/25JAN2011.b/sim012511.m
 Misc Info: 11-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1293.3	129.33*	76-120
176 1,2-Dichloroethane	1000.0	1100.7	110.07	80-128
175 Trans-1,2-Dichloro	1000.0	1031.4	103.14	80-120
2 1,1-Dichloroethene	1000.0	1191.8	119.18	80-120
3 cis-1,2-dichloroet	1000.0	1120.9	112.09	80-120
6 Benzene	1000.0	1043.8	104.38	80-120
8 Trichloroethene	1000.0	1074.8	107.48	80-120
10 Tetrachloroethene	1000.0	1039.9	103.99	80-122
11 1,1,2,2-Tetrachlor	1000.0	1182.9	118.29	80-128

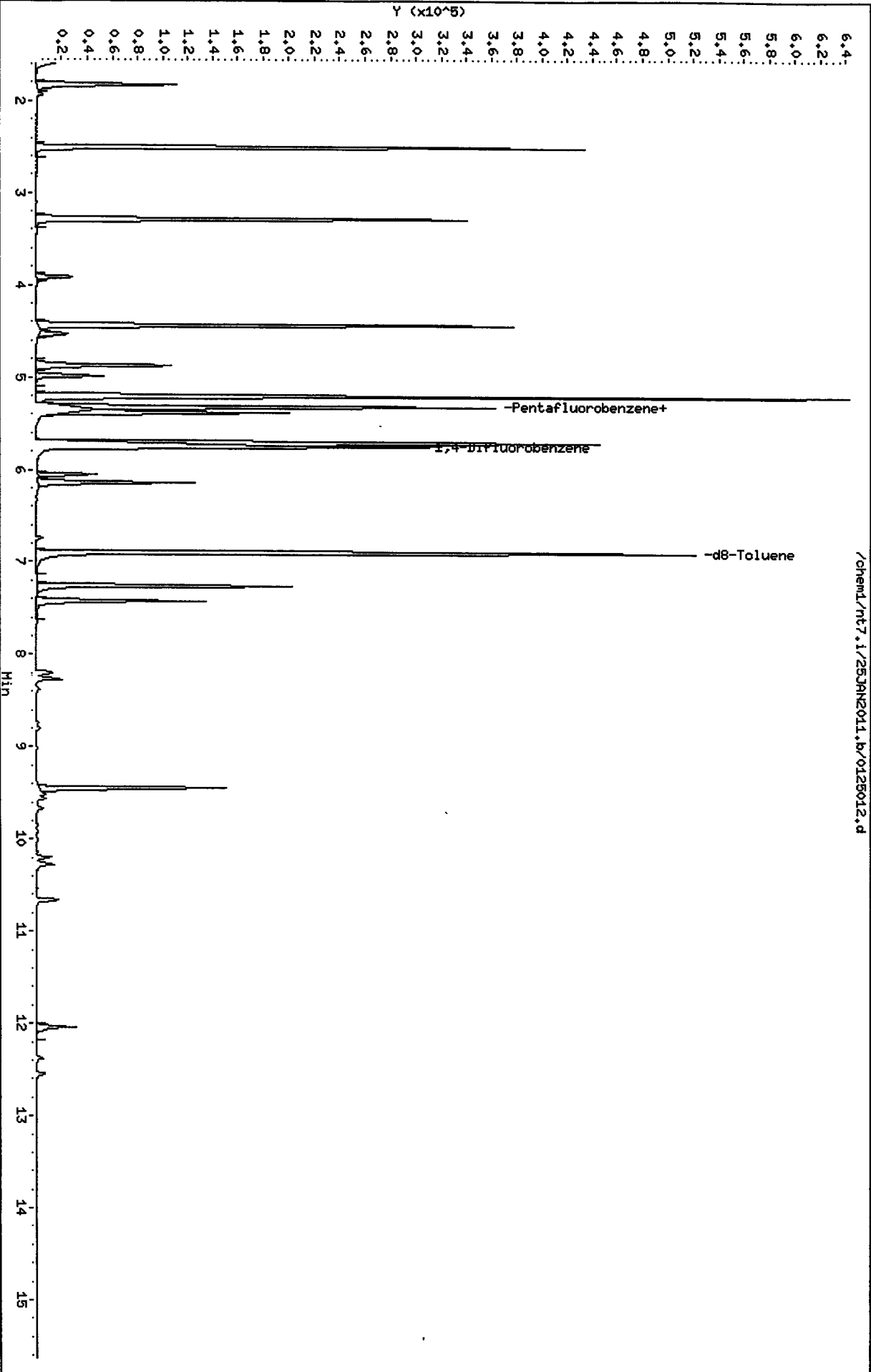
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	907.86	90.79	80-126
\$ 9 d8-Toluene	1000.0	1027.4	102.74	80-120

Data File: /chem1/nt7.i/25JAN2011.b/0125012.d
Date : 25-JAN-2011 15:38
Client ID: ICV10000
Sample Info: ICV0125,10,10,0

Column phase: RTXVHS

/chem1/nt7.i/25JAN2011.b/0125012.d

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



11/01/2011 14:00

CO-ELUTION SUMMARY FOR FILE - 0125012.d

Lab ID: ICV0125, Method: sim012511.m, Instrument: nt7.i, Date: 25-JAN-2011

RT CO-ELUTION COMPOUNDS

SIM Volatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SF26, SF50, SF76



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SF26 Client ID: Floyd - Saito

ARI SOP: ~~404S~~(Gas) ~~410S~~(BTEX) ~~430S~~(VPH) ~~700S~~(8260C) 703S(SIM) ~~706S~~(524.2) ~~710S~~(RSK-175)

Parameter(s): SIM VOA

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: 12/13/10 Analysis Start Date: 1/24/11

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

ICal acceptable? YES / NO CCal acceptable? YES / NO

Q flag applied? YES / NO / NA Q flag applied? YES / NO / NA

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? Yes / NO

Special Analysis Criteria Met? 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: _____ Date: 1/26/11

Reviewer: _____ Date: 1/28/11



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SF50 Client ID: Floyd/Suido

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): SIM VAA

Instrument: ~~NT-3~~ ^{PC 1/27/11} NT-5 **NT-7** NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: ^{12/13/10} 1/25/11 Analysis Start Date: 1/24/11

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
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	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: PC Date: 1/27/11

Reviewer: BS Date: 1/27/11

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 1/24/11 Analysis: S/M LGA Analyst: PL
 GC Program: VC Column No: 850322 Column Type: _____
 Instrument Tune (.U or .CT.): 0124003 (66600) EM Voltage: 2847
 Calibration File: 0124003 0124005 (carba) Curve Date: 12/3/10

IS/SS	Ical/Ccal	LCS/ICV
<u>0124003-2</u>	<u>0124003-3</u>	<u>0124003-3</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/24JAN2011.b

Time	Filename	LabID	ClientID	WT
1	0956	0124001.d	SFB0124	0.00
2	1032	0124002.d	SFB0124	0.00
3	1105	0124003.d	SFB0124	0.00
4	1135	0124004.d	CC0124	1 5.32 335498 5.75 514965
5	1202	0124005.d	CC0124A	1 5.32 333877 5.74 523528
6	1230	0124006.d	LCS0124	1 5.32 340276 5.75 519512
7	1258	0124007.d	MS0124	1 5.32 331491 5.76 511678
8	1323	0124008.d	LCS00124	1 5.31 338738 5.74 516977
9	1401	0124009.d	MEOHCHK	Flame MEOH 096181
10	1429	0124010.d	SF26E	TB-01-011911 <u>1</u> <u>62</u> 1 5.32 363614 5.74 561956
11	1456	0124011.d	SF26F	TB-02-011911 <u>1</u> 1 5.32 350061 5.75 539818
12	1524	0124012.d	SF26G	TB-03-011911 <u>1</u> 1 5.32 345845 5.74 530278
13	1551	0124013.d	SF26H	TB-04-011911 <u>1</u> 1 5.32 344020 5.75 526787
14	1619	0124014.d	SF50G	TB-012011 <u>2</u> 1 5.31 359820 5.76 527132
15	1647	0124015.d	SF26A	MW11-011911 <u>6</u> 1 5.32 356468 5.75 524390
16	1714	0124016.d	SF26B	MW10-011911 <u>2</u> 1 5.31 329375 5.76 512900
17	1742	0124017.d	SF26C	MW07-011911 <u>7</u> 1 5.32 333094 5.75 497283
18	1810	0124018.d	SF26D	MW14-011911 <u>6</u> 1 5.32 340121 5.76 496858
19	1837	0124019.d	SF50A	MW13-012011 <u>22</u> 1 5.32 326519 5.75 495133
20	1905	0124020.d	SF50B	MW06-012011 <u>15</u> 1 5.31 311437 5.76 486890
21	1933	0124021.d	SF50C	MW12-012011 <u>16</u> 1 5.32 302810 5.75 473882
22	2000	0124022.d	SF50D	MW04-012011 <u>12</u> 1 5.32 315274 5.76 472815
23	2028	0124023.d	SF26MS	MW14-011911 MS <u>3</u> <u>62</u> 1 5.32 303416 5.76 474632
24	2055	0124024.d	SF26MSD	MW14-011911 MSD <u>2</u> 1 5.32 294827 5.75 469035
25	2123	0124025.d	SF48A	EGM147-110120 <u>5</u> 1 5.32 290120 5.75 468555
26	2151	0124026.d	SF48F	EGM164-110120 <u>2</u> 1 5.32 287511 5.76 432093

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

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt7.i/24JAN2011.b

ARI Job No.: CC01 Method: sim121310.m Instrument: nt7.i Date: 24-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1202 0124005.d CC0124A CC0124A 1 NO MANUAL INTEGRATION

1230 0124006.d LCS0124 LCS0124 1 NO MANUAL INTEGRATION

1258 0124007.d MB0124 MB0124 1 NO MANUAL INTEGRATION

1323 0124008.d LCS0124 LCS0124 1 NO MANUAL INTEGRATION

1429 0124010.d SF26E TB-01-0119 1 NO MANUAL INTEGRATION

1456 0124011.d SF26F TB-02-0119 1 NO MANUAL INTEGRATION

1524 0124012.d SF26G TB-03-0119 1 NO MANUAL INTEGRATION

1551 0124013.d SF26H TB-04-0119 1 NO MANUAL INTEGRATION

1619 0124014.d SF50G TB-012011 1 NO MANUAL INTEGRATION

1647 0124015.d SF26A MW11-01191 1 NO MANUAL INTEGRATION

1714 0124016.d SF26B MW10-01191 1 NO MANUAL INTEGRATION

1742 0124017.d SF26C MW07-01191 1 NO MANUAL INTEGRATION

1810 0124018.d SF26D MW14-01191 1 NO MANUAL INTEGRATION

1837 0124019.d SF50A MW13-01201 1 NO MANUAL INTEGRATION

1905 0124020.d SF50B MW06-01201 1 NO MANUAL INTEGRATION

1933 0124021.d SF50C MW12-01201 1 NO MANUAL INTEGRATION

1960 0124022.d SF50D MW04-01201 1 NO MANUAL INTEGRATION

1988 0124023.d SF26DMS MW14-01191 1 NO MANUAL INTEGRATION

1995 0124024.d SF26DMSD MW14-01191 1 NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt7.i/24JAN2011.b

Instrument: nt7.i Date: 24-JAN-2011 Method: sim121310.m

INITIAL CAL: 13-DEC-2010

Compound	%RSD or R ²
----------	------------------------

NO Q-FLAGS

CONTINUING CAL: 24-JAN-2011

Compound	%D
----------	----

NO Q-FLAGS

Date : 24-JAN-2011 11:05

Client ID:

Instrument: nt7.i

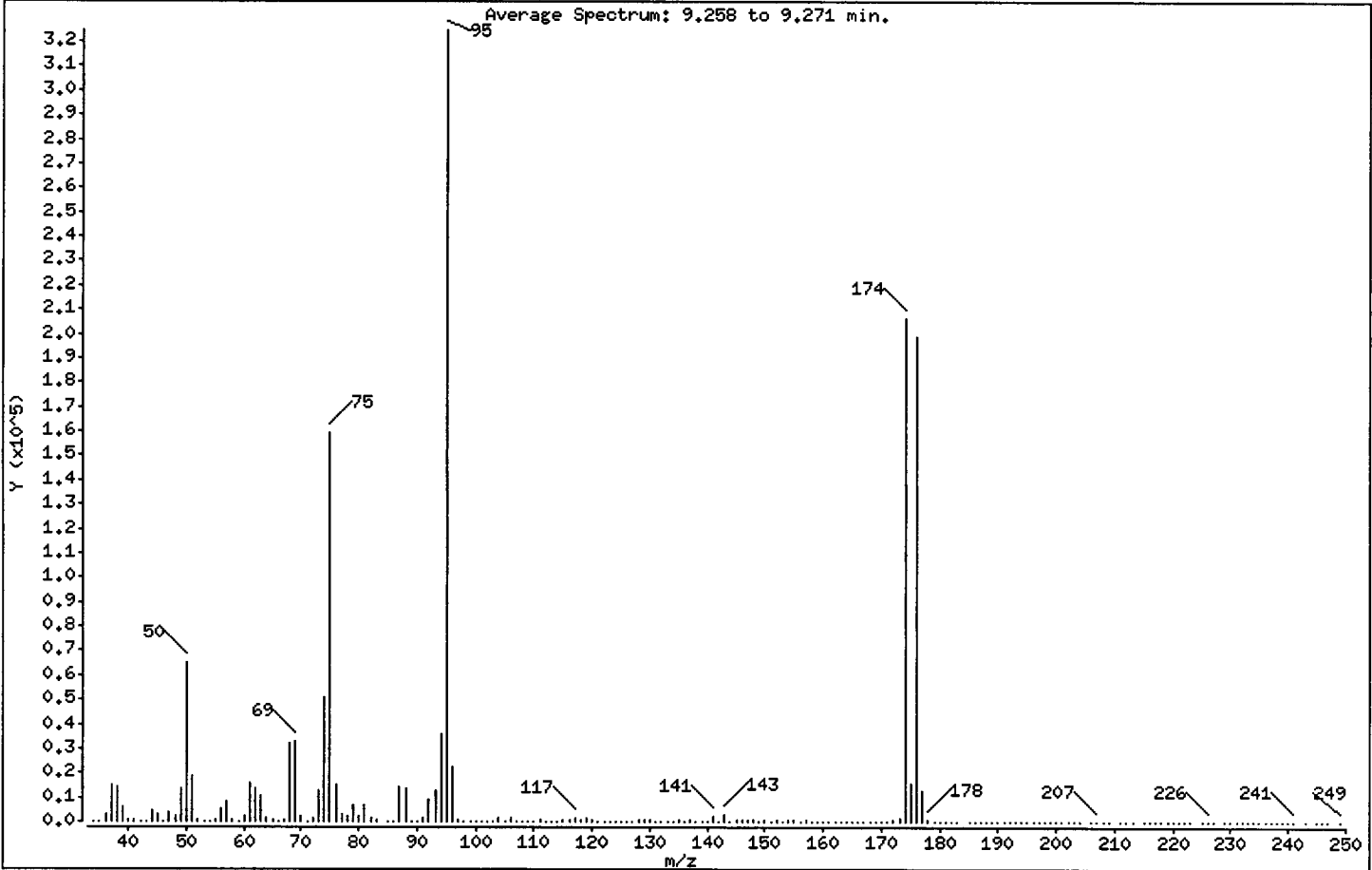
Sample Info: BFB0124

Operator: PB

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	20.08
75	30.00 - 66.00% of mass 95	49.09
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.44 (0.70)
174	50.00 - 101.00% of mass 95	63.51
175	4.00 - 9.00% of mass 174	4.95 (7.79)
176	93.00 - 101.00% of mass 174	61.31 (96.53)
177	5.00 - 9.00% of mass 176	3.82 (6.23)

Date : 24-JAN-2011 11:05

Client ID:

Instrument: nt7.i

Sample Info: BFB0124

Operator: PB

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0124003.d

Spectrum: Average Spectrum: 9.258 to 9.271 min.

Location of Maximum: 95.00

Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	151	87.00	14419	139.00	286	192.00	60
35.00	215	88.00	13731	140.00	305	193.00	153
36.00	3330	89.00	94	141.00	2353	194.00	90
37.00	15130	90.00	53	142.00	205	195.00	96
38.00	14089	91.00	1288	143.00	3128	196.00	28
39.00	5865	92.00	8900	144.00	147	197.00	149
40.00	1011	93.00	12861	145.00	408	198.00	150
41.00	575	94.00	35584	146.00	790	199.00	189
42.00	217	95.00	324544	147.00	438	200.00	65
43.00	328	96.00	22712	148.00	949	201.00	312
44.00	4809	97.00	1035	149.00	69	202.00	135
45.00	2743	98.00	64	150.00	426	203.00	168
46.00	180	99.00	200	151.00	38	204.00	30
47.00	3824	100.00	43	152.00	500	206.00	35
48.00	1954	101.00	38	153.00	225	207.00	325
49.00	13204	102.00	103	154.00	453	208.00	84
50.00	65168	103.00	342	155.00	806	209.00	90
51.00	19056	104.00	1414	156.00	356	211.00	194
52.00	1037	105.00	318	157.00	493	212.00	83
53.00	90	106.00	1314	158.00	245	213.00	117
54.00	154	107.00	241	159.00	295	215.00	27
55.00	1065	108.00	153	160.00	127	216.00	152
56.00	4966	109.00	155	161.00	360	217.00	188
57.00	8057	110.00	257	162.00	165	218.00	67
58.00	537	111.00	515	163.00	51	219.00	86
59.00	320	112.00	248	164.00	95	220.00	66
60.00	2377	113.00	365	165.00	218	221.00	65
61.00	16054	114.00	159	166.00	91	222.00	39
62.00	13597	115.00	469	167.00	127	223.00	104
63.00	10174	116.00	1113	168.00	158	225.00	135
64.00	1446	117.00	1622	169.00	222	226.00	189
65.00	552	118.00	749	170.00	79	227.00	128
66.00	295	119.00	1418	171.00	167	229.00	105
67.00	918	120.00	418	172.00	483	230.00	112
68.00	31968	121.00	108	173.00	1441	231.00	65

Date : 24-JAN-2011 11:05

Client ID:

Instrument: nt7.i

Sample Info: BFB0124

Operator: PB

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0124003.d

Spectrum: Average Spectrum: 9.258 to 9.271 min.

Location of Maximum: 95.00

Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.00	32632	122.00	358	174.00	206080	232.00	102
70.00	2593	123.00	141	175.00	16060	233.00	198
71.00	228	124.00	325	176.00	198976	234.00	264
72.00	1493	125.00	172	177.00	12401	235.00	149
73.00	12457	126.00	238	178.00	769	236.00	145
74.00	50920	127.00	203	179.00	68	237.00	93
75.00	159296	128.00	1017	180.00	45	238.00	29
76.00	14662	129.00	691	181.00	76	239.00	56
77.00	3073	130.00	952	182.00	198	240.00	84
78.00	1872	131.00	348	183.00	105	241.00	345
79.00	6843	132.00	81	185.00	189	243.00	116
80.00	2063	133.00	88	186.00	34	245.00	79
81.00	6621	134.00	203	187.00	97	246.00	27
82.00	1636	135.00	717	188.00	142	247.00	100
83.00	505	136.00	75	189.00	94	249.00	127
85.00	174	137.00	495	190.00	153		
86.00	126	138.00	104	191.00	156		

Data File: /chem1/nt7.i/24JAN2011.b/0124003.d
Date: 24-JAN-2011 11:05
Client ID:
Sample Info: BFB0124

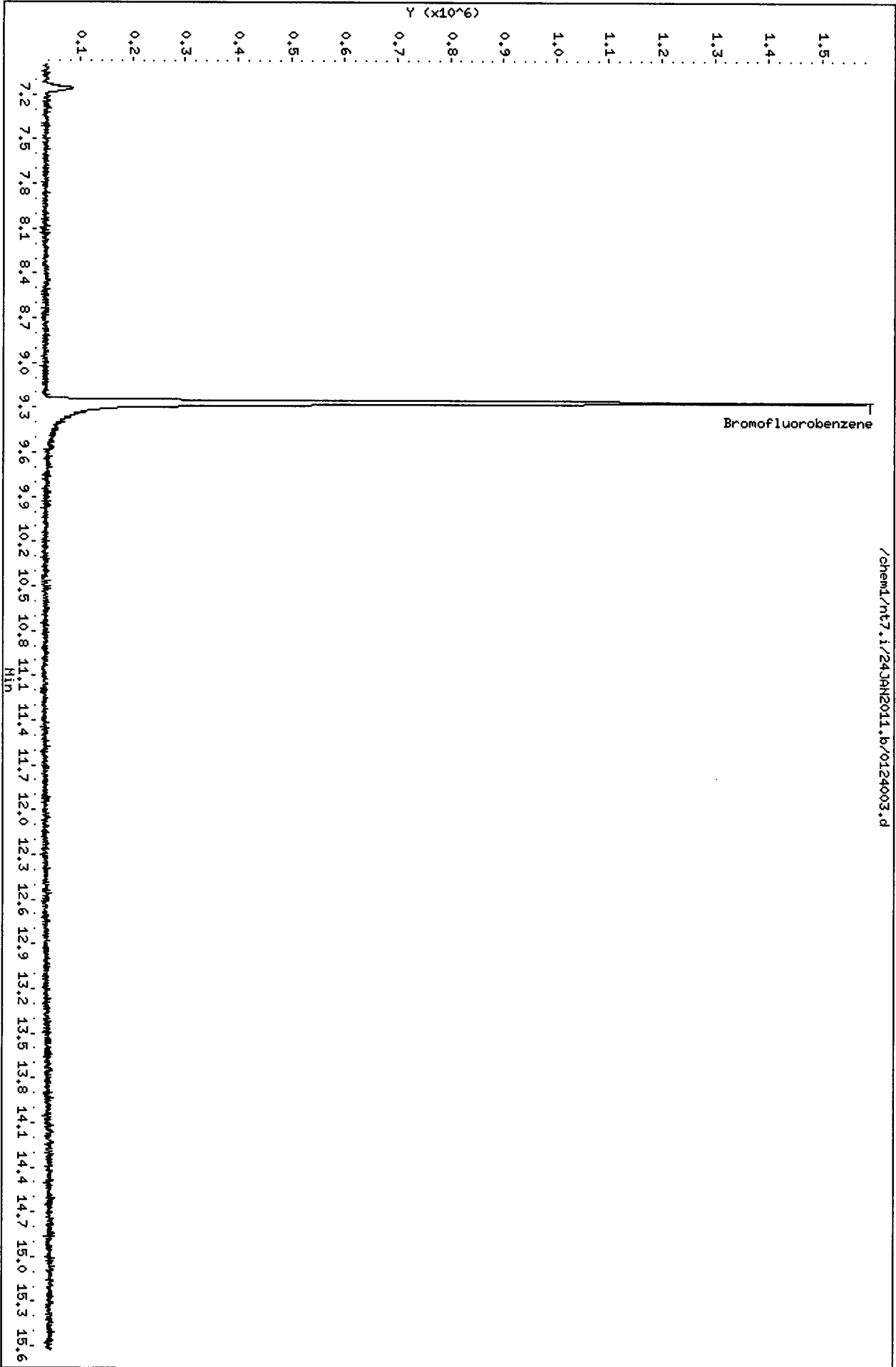
Instrument: nt7.i

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Column phase: RTXVHS

Operator: PB
Column diameter: 0.18

/chem1/nt7.i/24JAN2011.b/0124003.d



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124005.d
Lab Smp Id: CC0124A Client Smp ID: CC0124A
Inj Date : 24-JAN-2011 12:02
Operator : PC Inst ID: nt7.i
Smp Info : CC0124A,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 24-Jan-2011 13:06 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.551	1.551	(0.292)	288559	1000.00	954.42
2 1,1-Dichloroethene	96	2.504	2.504	(0.471)	185774	1000.00	861.58
175 Trans-1,2-Dichloroethene	96	3.283	3.283	(0.618)	203901	1000.00	850.09
3 cis-1,2-dichloroethene	96	4.433	4.433	(0.834)	208542	1000.00	847.00
6 Benzene	78	5.202	5.202	(0.906)	882616	1000.00	991.50
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	333877	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	161834	1000.00	1049.4
176 1,2-Dichloroethane	62	5.382	5.382	(1.012)	264797	1000.00	933.61
8 Trichloroethene	130	5.710	5.710	(0.994)	201044	1000.00	955.59
* 7 1,4-Difluorobenzene	114	5.744	5.744	(1.000)	523528	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	583062	1000.00	944.03
10 Tetrachloroethene	166	7.259	7.259	(1.264)	178999	1000.00	804.57
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446	(1.644)	134596	1000.00	829.08

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt7.i Injection Date: 24-JAN-2011 12:02
Lab File ID: 0124005.d Init. Cal. Date(s): 13-DEC-2010 13-DEC-2010
Analysis Type: WATER Init. Cal. Times: 09:50 12:24
Lab Sample ID: CC0124A Quant Type: ISTD
Method: /chem1/nt7.i/24JAN2011.b/sim121310.m

COMPOUND	RRF / AMOUNT	RF1000	CCAL RRF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Vinyl Chloride	0.90554	0.86427	0.86427	0.040	-4.55804	20.00000	Averaged
2 1,1-Dichloroethene	0.64581	0.55642	0.55642	0.040	-13.84182	20.00000	Averaged
175 Trans-1,2-Dichloroethene	0.71840	0.61071	0.61071	0.040	-14.99091	20.00000	Averaged
3 cis-1,2-dichloroethene	0.73743	0.62461	0.62461	0.040	-15.29996	20.00000	Averaged
6 Benzene	992	1000	1.68590	0.040	-0.84983	20.00000	Linear
\$ 5 d4-1,2-Dichloroethane	0.46190	0.48471	0.48471	0.040	4.93995	20.00000	Averaged
176 1,2-Dichloroethane	0.84949	0.79310	0.79310	0.040	-6.63882	20.00000	Averaged
8 Trichloroethene	956	1000	0.38402	0.040	-4.44069	20.00000	Linear
\$ 9 d8-Toluene	1.17975	1.11372	1.11372	0.040	-5.59723	20.00000	Averaged
10 Tetrachloroethene	0.42496	0.34191	0.34191	0.040	-19.54326	20.00000	Averaged
11 1,1,2,2-Tetrachloroethane	0.31010	0.25710	0.25710	0.040	-17.09154	20.00000	Averaged

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 24-JAN-2011
Lab File ID: 0124005.d	Calibration Time: 11:35
Lab Smp Id: CC0124A	Client Smp ID: CC0124A
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m	
Misc Info: 11-	

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	333877	-3.45
7 1,4-Difluorobenze	524155	262078	1048310	523528	-0.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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/nt7.i/24JAN2011.b/0124005.d

Date : 24-JAN-2011 12:02

Client ID: CC0124A

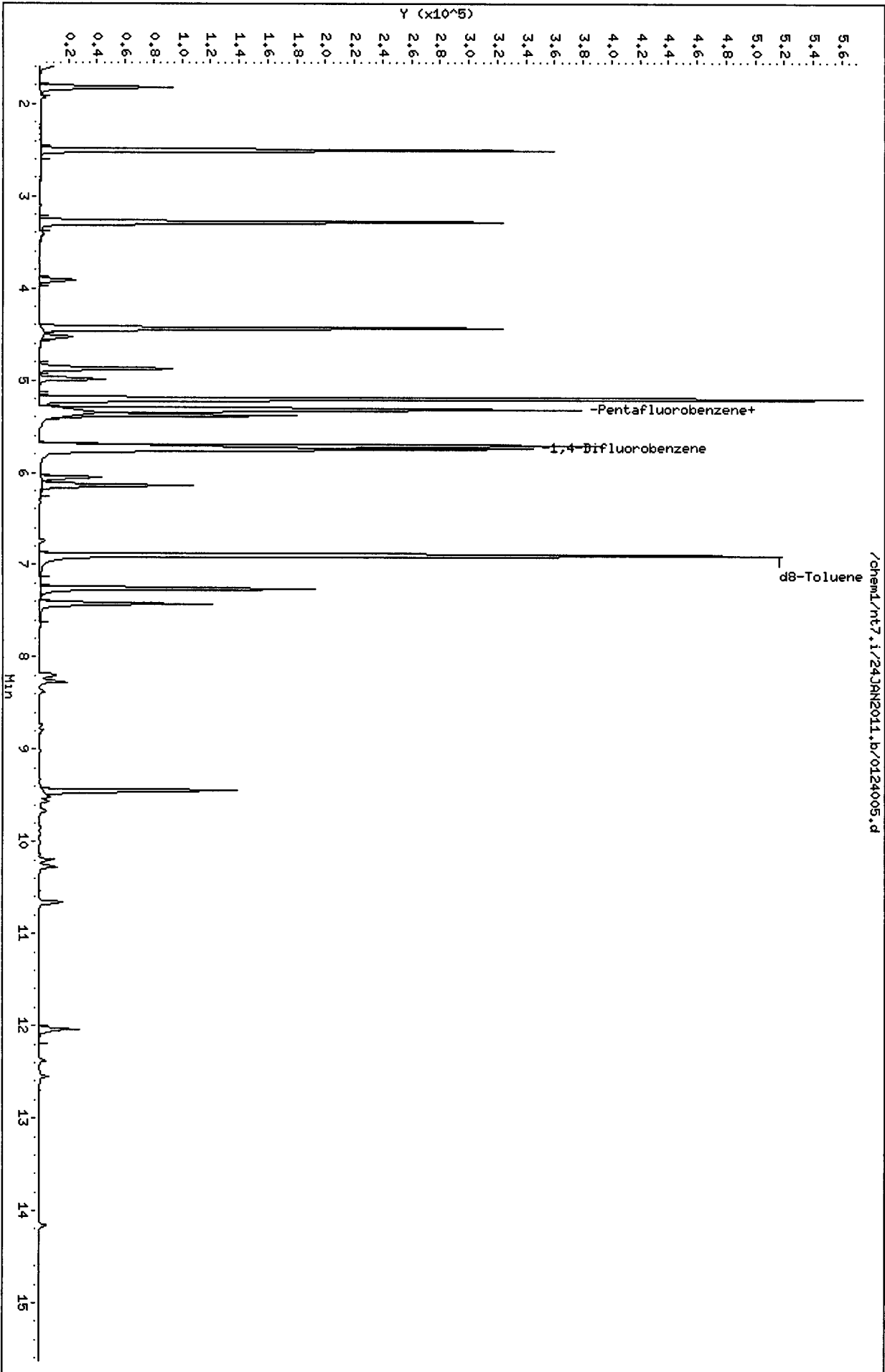
Sample Info: CC0124A,10,10,0,

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



11 10 9 8 7 6 5 4 3 2 1 0

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124006.d
Lab Smp Id: LCS0124 Client Smp ID: LCS0124
Inj Date : 24-JAN-2011 12:30
Operator : PC Inst ID: nt7.i
Smp Info : LCS0124,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 24-Jan-2011 13:06 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.551	1.551 (0.292)	296695	962.874	962.87		
2 1,1-Dichloroethene	96	2.511	2.504 (0.472)	203466	925.888	925.89		
175 Trans-1,2-Dichloroethene	96	3.290	3.283 (0.619)	223004	912.251	912.25		
3 cis-1,2-dichloroethene	96	4.434	4.433 (0.834)	226474	902.535	902.53		
6 Benzene	78	5.202	5.202 (0.904)	963456	1090.68	1090.7		
* 4 Pentafluorobenzene	168	5.316	5.316 (1.000)	340276	1000.00			
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325 (1.002)	162676	1035.02	1035.0		
176 1,2-Dichloroethane	62	5.383	5.382 (1.012)	288186	996.971	996.97		
8 Trichloroethene	130	5.709	5.710 (0.992)	217057	1039.68	1039.7		
* 7 1,4-Difluorobenzene	114	5.755	5.744 (1.000)	519512	1000.00			
\$ 9 d8-Toluene	98	6.902	6.902 (1.199)	592607	966.898	966.90		
10 Tetrachloroethene	166	7.259	7.259 (1.261)	193314	875.627	875.63		
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446 (1.641)	151523	940.565	940.56		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124006.d
Lab Smp Id: LCS0124
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: LCS0124
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	340276	-1.60
7 1,4-Difluorobenze	524155	262078	1048310	519512	-0.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.19

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: 24JAN2011
Sample Matrix: LIQUID	Fraction: VOA
Lab Smp Id: LCS0124	Client Smp ID: LCS0124
Level: LOW	Operator: PC
Data Type: MS DATA	SampleType: LCS
SpikeList File: special.spk	Quant Type: ISTD
Sublist File: sim12dca.sub	
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m	
Misc Info: 11-	

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	962.87	96.29	76-120
176 1,2-Dichloroethane	1000.0	996.97	99.70	80-128
175 Trans-1,2-Dichloro	1000.0	912.25	91.23	80-120
2 1,1-Dichloroethene	1000.0	925.89	92.59	80-120
3 cis-1,2-dichloroet	1000.0	902.53	90.25	80-120
6 Benzene	1000.0	1090.7	109.07	80-120
8 Trichloroethene	1000.0	1039.7	103.97	80-120
10 Tetrachloroethene	1000.0	875.63	87.56	80-122
11 1,1,2,2-Tetrachlor	1000.0	940.56	94.06	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1035.0	103.50	80-126
\$ 9 d8-Toluene	1000.0	966.90	96.69	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124006.d

Date : 24-JAN-2011 12:30

Client ID: LCS0124

Sample Info: LCS0124,10,10,0,

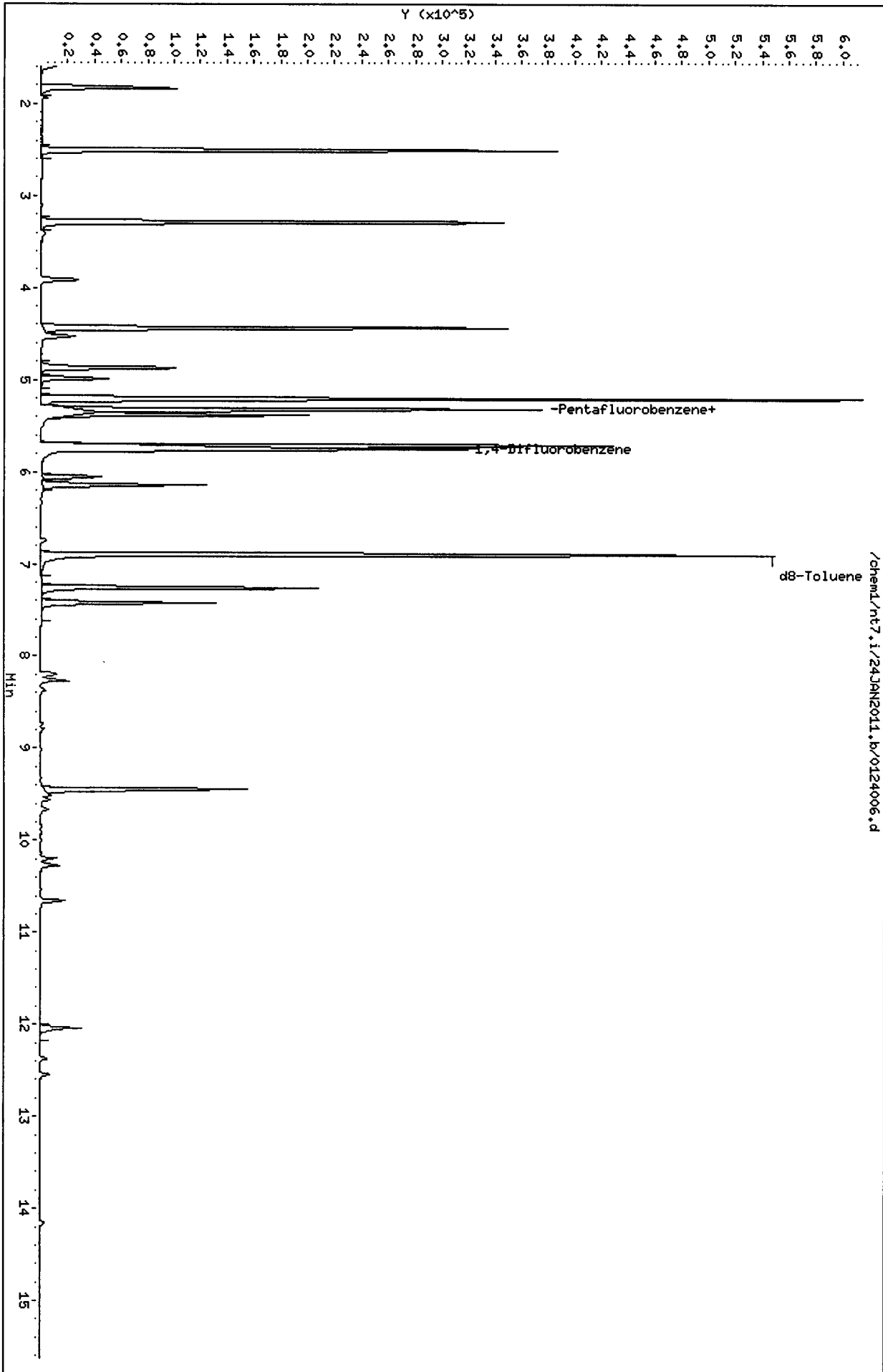
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

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/chem1/nt7.i/24JAN2011.b/0124006.d

0124006.d

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124007.d
Lab Smp Id: MB0124 Client Smp ID: MB0124
Inj Date : 24-JAN-2011 12:58
Operator : PC Inst ID: nt7.i
Smp Info : MB0124,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	331491	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	183779	1200.28	1200.3	
176 1,2-Dichloroethane	62	5.382	5.382	(1.012)	79	0.28179	0.2818(0)	
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.756	5.744	(1.000)	511678	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	571056	946.000	946.00	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124007.d
Lab Smp Id: MB0124
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MB0124
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	331491	-4.14
7 1,4-Difluorobenze	524155	262078	1048310	511678	-2.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.20

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: 24JAN2011
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0124 Client Smp ID: MB0124
Level: LOW Operator: PC
Data Type: MS DATA SampleType: BLANK
SpikeList File: special.spk Quant Type: ISTD
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1200.3	120.03	80-126
\$ 9 d8-Toluene	1000.0	946.00	94.60	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124007.d

Date : 24-JAN-2011 12:58

Client ID: HB0124

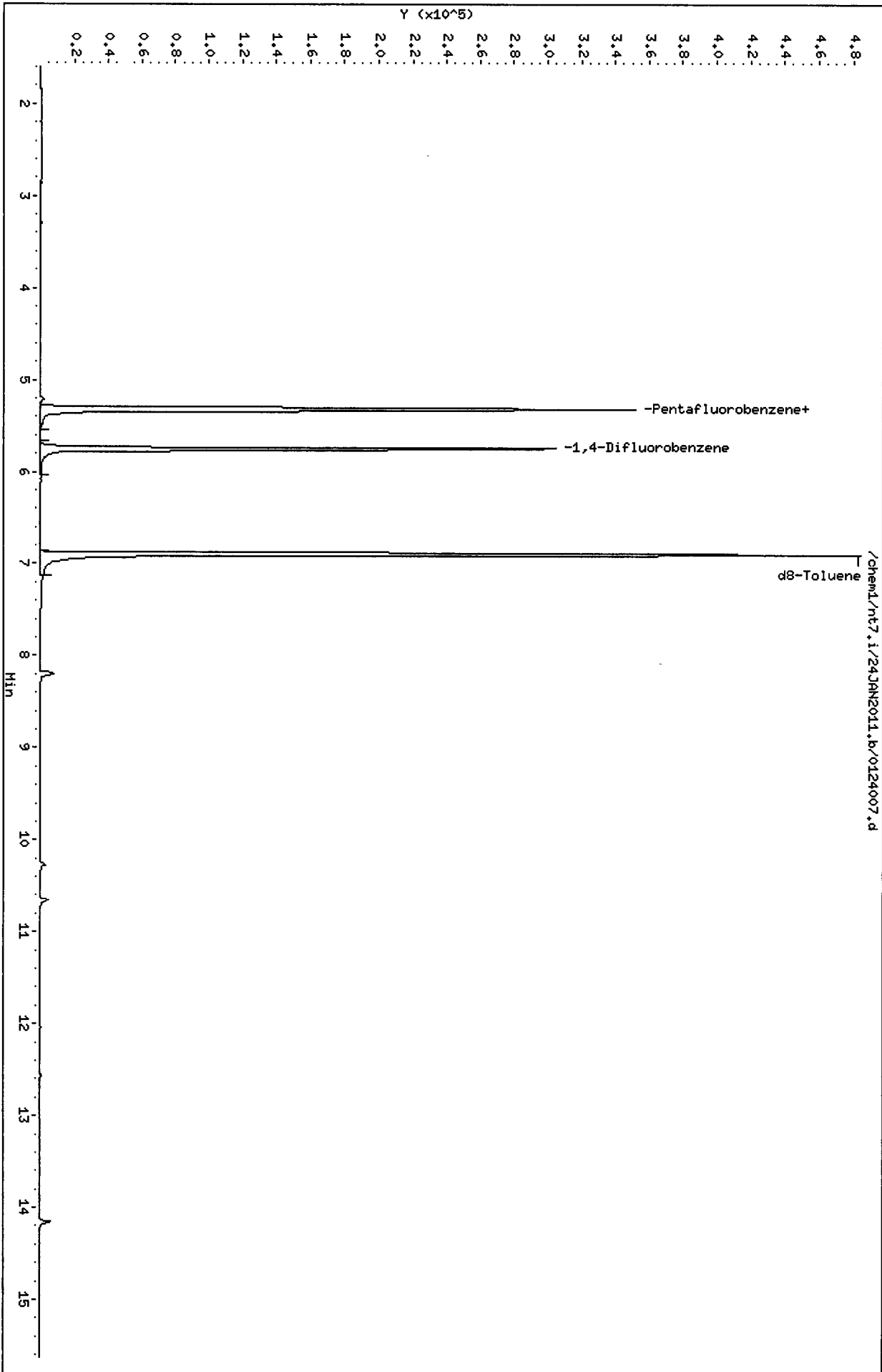
Sample Info: HB0124,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124008.d
Lab Smp Id: LCSD0124 Client Smp ID: LCSD0124
Inj Date : 24-JAN-2011 13:23
Operator : PC Inst ID: nt7.i
Smp Info : LCSD0124,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 24-Jan-2011 13:06 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)
1 Vinyl Chloride	62	1.551	1.551	0.292	324457	1057.75	1057.8
2 1,1-Dichloroethene	96	2.505	2.504	0.471	209707	958.619	958.62
175 Trans-1,2-Dichloroethene	96	3.284	3.283	0.618	229800	944.322	944.32
3 cis-1,2-dichloroethene	96	4.434	4.433	0.834	235505	942.785	942.79
6 Benzene	78	5.201	5.202	0.905	999403	1136.92	1136.9
* 4 Pentafluorobenzene	168	5.315	5.316	1.000	338738	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	1.002	161368	1031.36	1031.4
176 1,2-Dichloroethane	62	5.381	5.382	1.012	300306	1043.61	1043.6
8 Trichloroethene	130	5.710	5.710	0.994	227926	1097.09	1097.1
* 7 1,4-Difluorobenzene	114	5.744	5.744	1.000	516977	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	1.202	586316	961.326	961.33
10 Tetrachloroethene	166	7.259	7.259	1.264	198040	901.433	901.43
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446	1.644	157989	985.514	985.51

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124008.d
Lab Smp Id: LCSD0124
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: LCSD0124
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	338738	-2.05
7 1,4-Difluorobenze	524155	262078	1048310	516977	-1.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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: 24JAN2011
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCSD0124 Client Smp ID: LCSD0124
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1057.8	105.78	76-120
176 1,2-Dichloroethane	1000.0	1043.6	104.36	80-128
175 Trans-1,2-Dichloro	1000.0	944.32	94.43	80-120
2 1,1-Dichloroethene	1000.0	958.62	95.86	80-120
3 cis-1,2-dichloroet	1000.0	942.79	94.28	80-120
6 Benzene	1000.0	1136.9	113.69	80-120
8 Trichloroethene	1000.0	1097.1	109.71	80-120
10 Tetrachloroethene	1000.0	901.43	90.14	80-122
11 1,1,2,2-Tetrachlor	1000.0	985.51	98.55	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1031.4	103.14	80-126
\$ 9 d8-Toluene	1000.0	961.33	96.13	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124008.d

Date: 24-JAN-2011 13:23

Client ID: LCSD0124

Sample Info: LCSD0124,10,10,0,

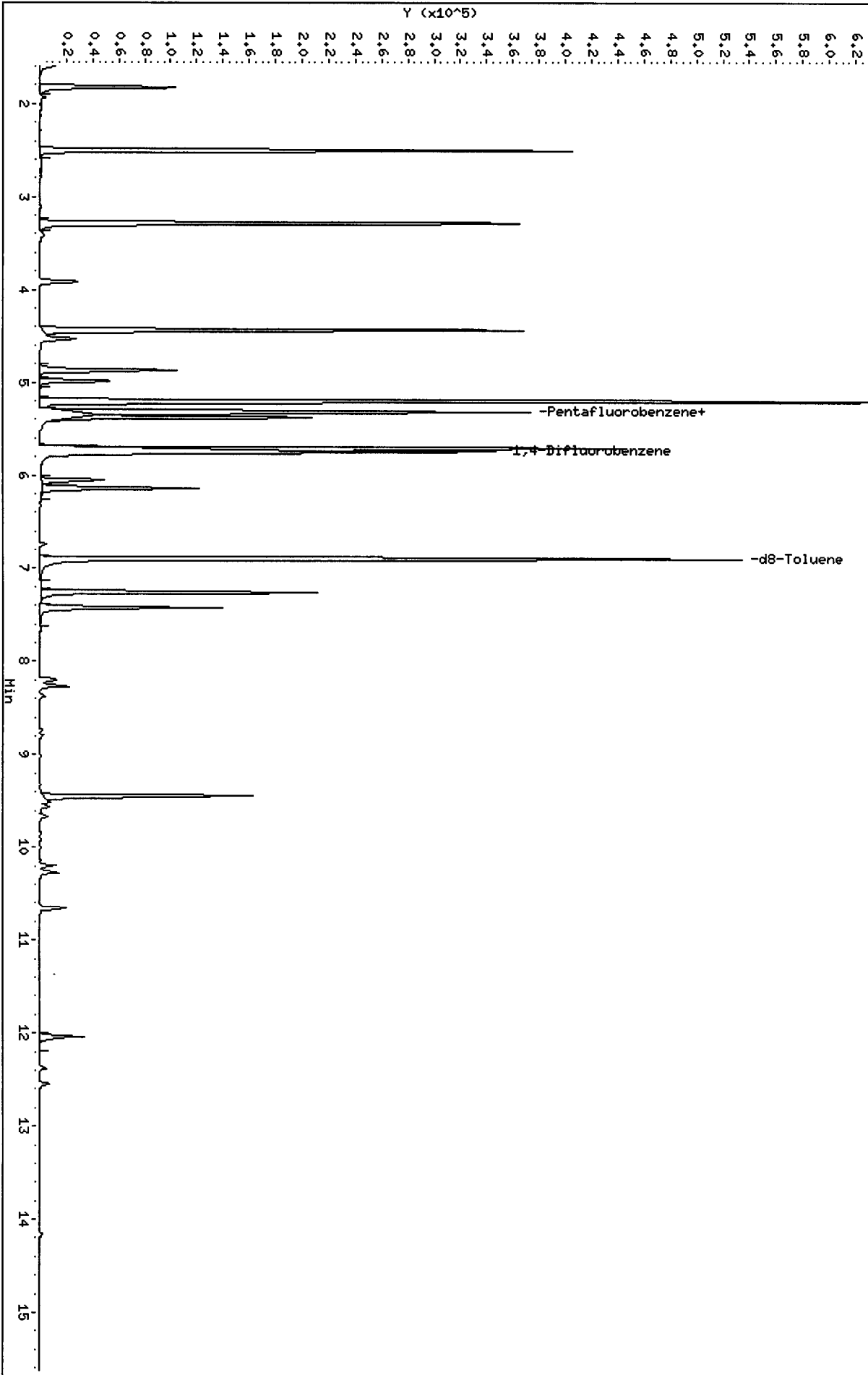
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/24JAN2011.b/0124008.d



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Data File: /chem1/nt7.i/24JAN2011.b/0124010.d
Report Date: 25-Jan-2011 13:51

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124010.d
Lab Smp Id: SF26E Client Smp ID: TB-01-011911
Inj Date : 24-JAN-2011 14:29
Operator : PC Inst ID: nt7.i
Smp Info : SF26E,10,10,0,
Misc Info : 11-1075
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	363614	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	184415	1098.03	1098.0
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.744	5.744	(1.000)	561956	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	625804	943.943	943.94
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124010.d
Lab Smp Id: SF26E
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1075

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: TB-01-011911
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	363614	5.14
7 1,4-Difluorobenze	524155	262078	1048310	561956	7.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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: SF26E
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1075

Client SDG: SF26
Fraction: VOA
Client Smp ID: TB-01-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1098.0	109.80	80-126
\$ 9 d8-Toluene	1000.0	943.94	94.39	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124010.d

Date : 24-JAN-2011 14:29

Client ID: TB-01-011911

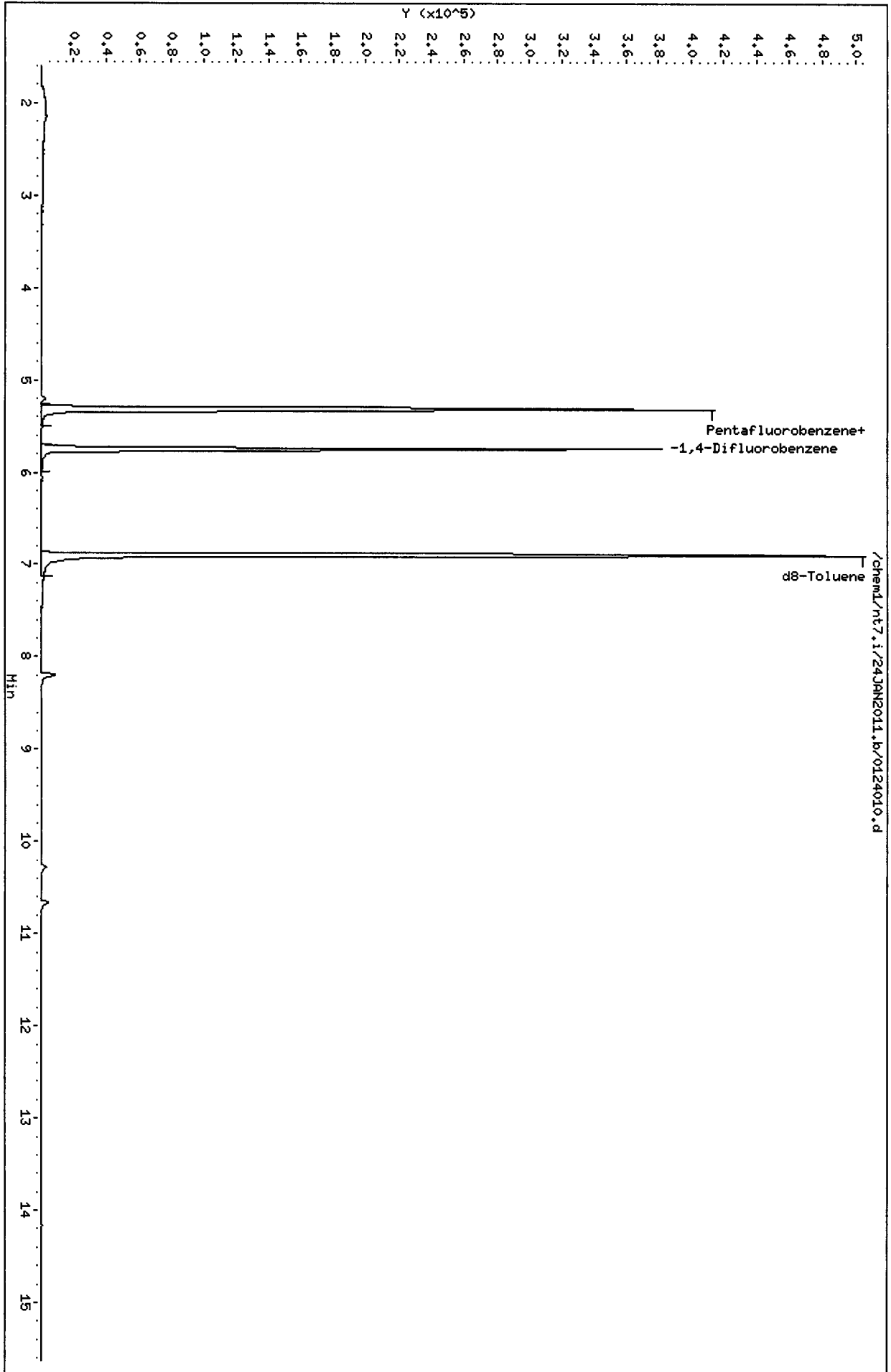
Sample Info: SF26E.10.10.0.0,

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124011.d
Lab Smp Id: SF26F Client Smp ID: TB-02-011911
Inj Date : 24-JAN-2011 14:56
Operator : PC Inst ID: nt7.i
Smp Info : SF26F,10,10,0,
Misc Info : 11-1076
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	350061	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	181943	1125.25	1125.2
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.754	5.744	(1.000)	539818	1000.00	
\$ 9 d8-Toluene	98	6.901	6.902	(1.199)	604576	949.321	949.32
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124011.d
Lab Smp Id: SF26F
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1076

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: TB-02-011911
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	350061	1.23
7 1,4-Difluorobenze	524155	262078	1048310	539818	2.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: SF26F
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1076

Client SDG: SF26
Fraction: VOA
Client Smp ID: TB-02-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1125.2	112.52	80-126
\$ 9 d8-Toluene	1000.0	949.32	94.93	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124011.d

Date : 24-JAN-2011 14:56

Client ID: TB-02-011911

Sample Info: SF26F,10,10,0,

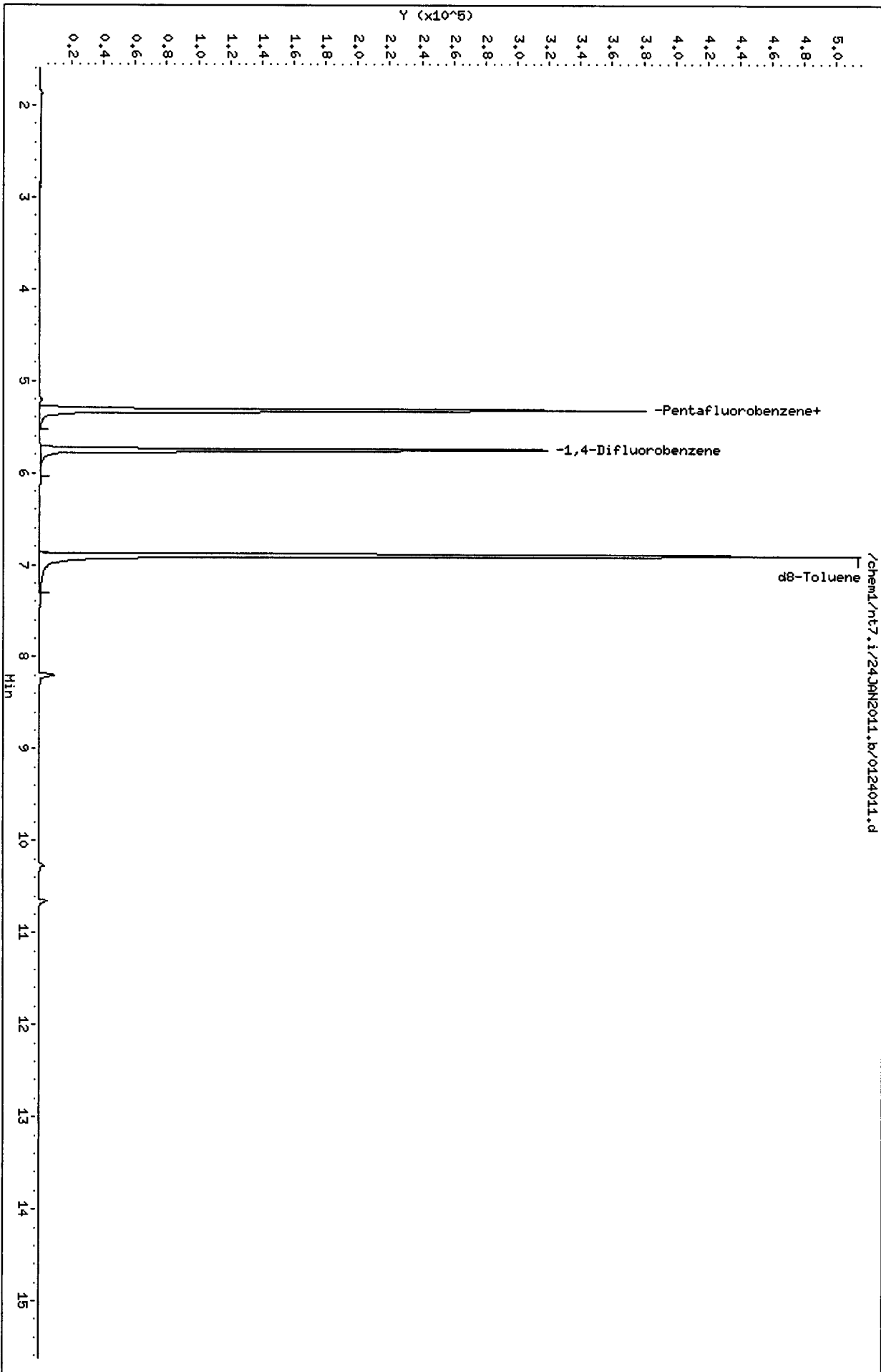
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

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SF26 : 00433

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124012.d
Lab Smp Id: SF26G Client Smp ID: TB-03-011911
Inj Date : 24-JAN-2011 15:24
Operator : PC Inst ID: nt7.i
Smp Info : SF26G,10,10,0,
Misc Info : 11-1077
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	345845	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	181371	1135.38	1135.4	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.744	5.744	(1.000)	530278	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	592966	947.842	947.84	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 24-JAN-2011
Lab File ID: 0124012.d	Calibration Time: 12:02
Lab Smp Id: SF26G	Client Smp ID: TB-03-011911
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: PC	
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m	
Misc Info: 11-1077	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	345845	0.01
7 1,4-Difluorobenze	524155	262078	1048310	530278	1.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	-0.01

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: SF26G
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1077

Client SDG: SF26
Fraction: VOA
Client Smp ID: TB-03-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1135.4	113.54	80-126
\$ 9 d8-Toluene	1000.0	947.84	94.78	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124012.d

Date : 24-JAN-2011 15:24

Client ID: TP-03-011911

Sample Info: SF266.10,10,0,

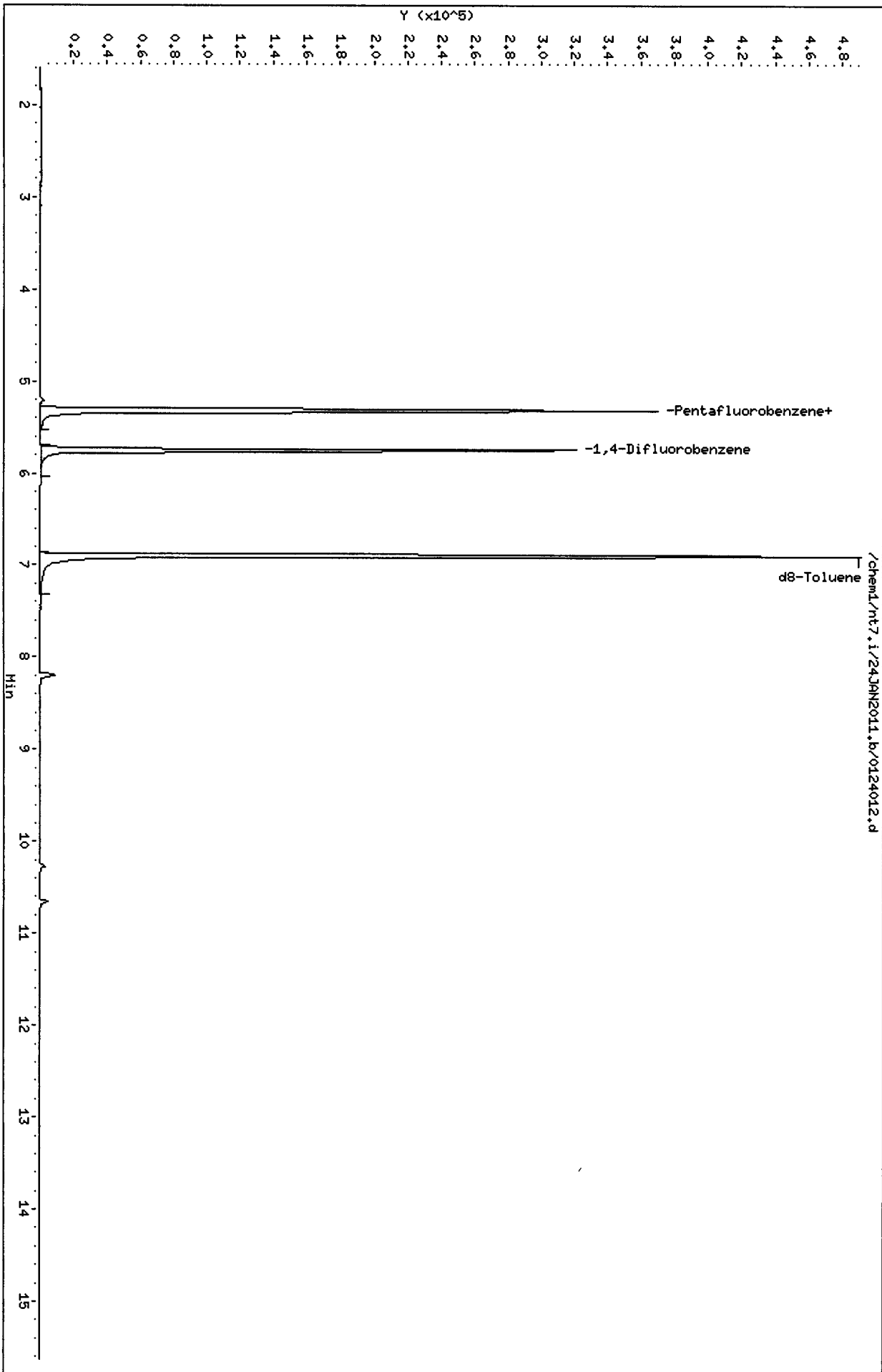
Column phase: RTXVMS

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Instrument: nt7.i

Operator: PC

Column diameter: 0.18



/chem1/nt7.i/24JAN2011.b/0124012.d

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124013.d
Lab Smp Id: SF26H Client Smp ID: TB-04-011911
Inj Date : 24-JAN-2011 15:51
Operator : PC Inst ID: nt7.i
Smp Info : SF26H,10,10,0,
Misc Info : 11-1078
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	344020	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	180208	1134.09	1134.1
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.754	5.744	(1.000)	526787	1000.00	
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	584196	940.012	940.01
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124013.d
Lab Smp Id: SF26H
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1078

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: TB-04-011911
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	344020	-0.52
7 1,4-Difluorobenze	524155	262078	1048310	526787	0.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: SF26H
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1078

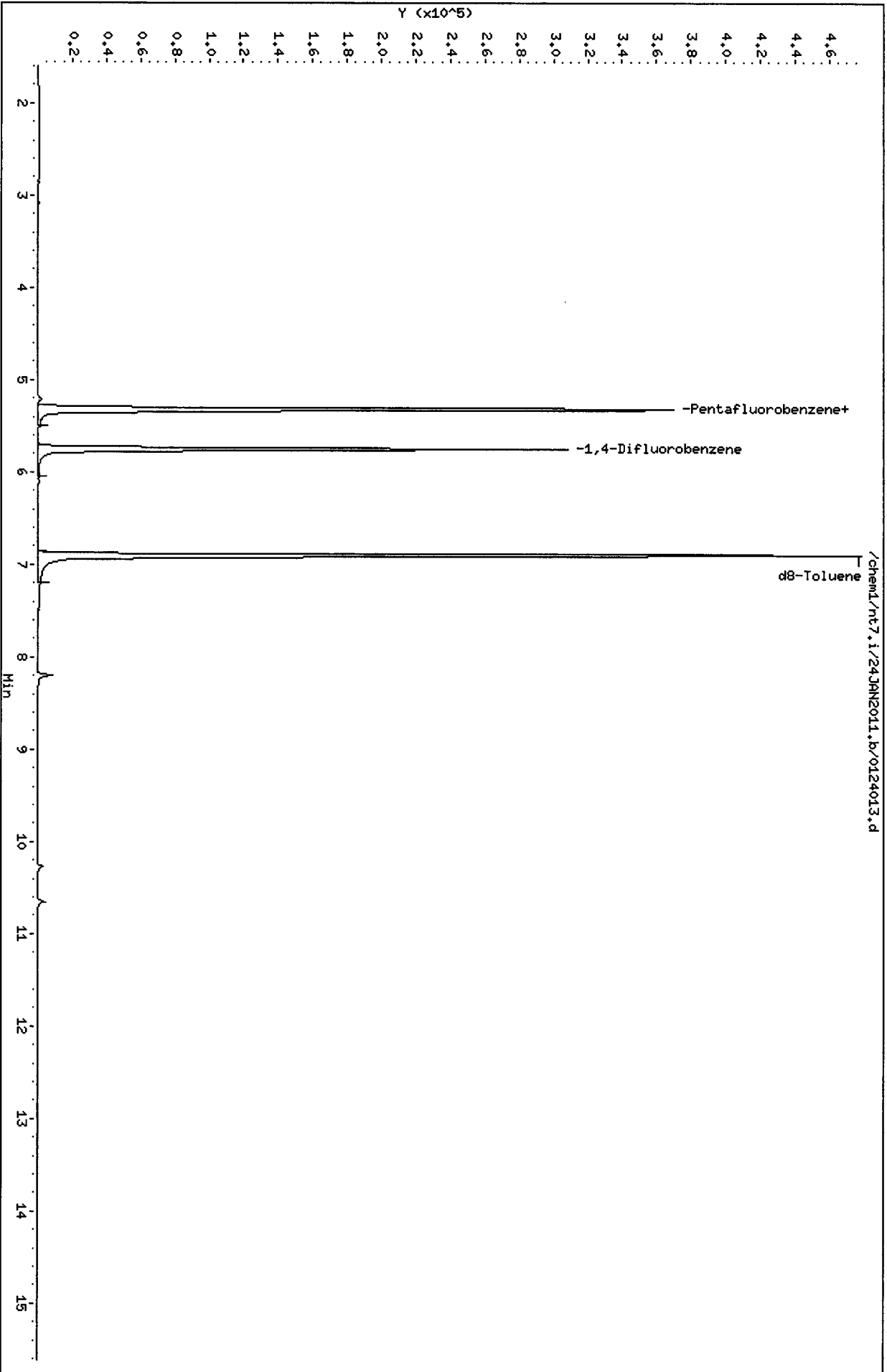
Client SDG: SF26
Fraction: VOA
Client Smp ID: TB-04-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1134.1	113.41	80-126
\$ 9 d8-Toluene	1000.0	940.01	94.00	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124013.d
Date : 24-JAN-2011 15:51
Client ID: TB-04-011911
Sample Info: SF26H,10,10,0,0,

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124014.d
Lab Smp Id: SF50G Client Smp ID: TB-012011
Inj Date : 24-JAN-2011 16:19
Operator : PC Inst ID: nt7.i
Smp Info : SF50G,10,10,0,
Misc Info : 11-1204
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	359820	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	182204	1096.30	1096.3
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.756	5.744	(1.000)	527132	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	591586	951.280	951.28
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124014.d
Lab Smp Id: SF50G
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1204

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: TB-012011
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	359820	4.05
7 1,4-Difluorobenze	524155	262078	1048310	527132	0.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.20

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: SF50G
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1204

Client SDG: SF50
Fraction: VOA
Client Smp ID: TB-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1096.3	109.63	80-126
\$ 9 d8-Toluene	1000.0	951.28	95.13	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124014.d

Date : 24-JAN-2011 16:19

Client ID: TB-012011

Sample Info: SF506,10,10,0,

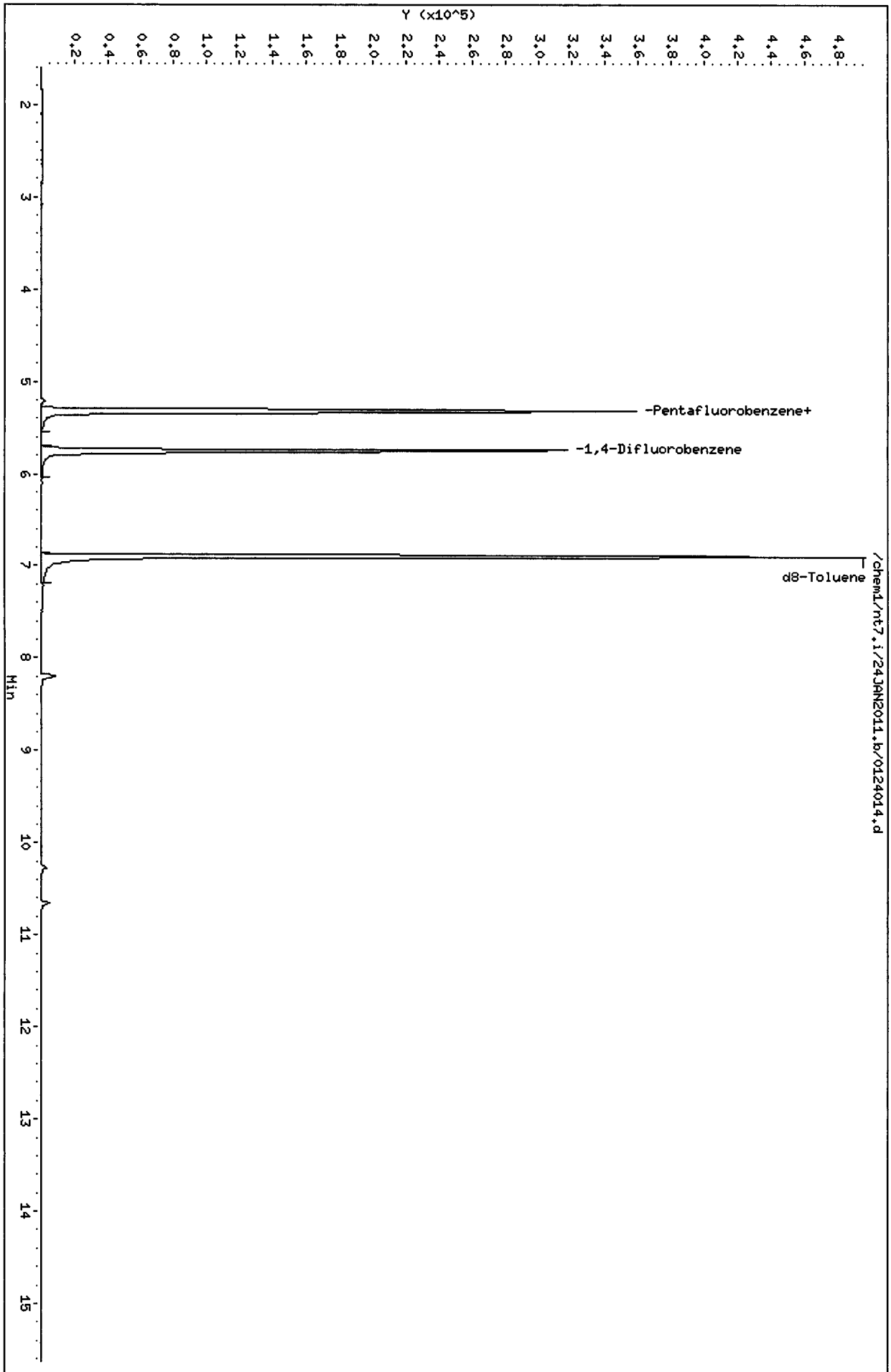
Column phase: RTXVHS

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Instrument: nt7.i

Operator: PC

Column diameter: 0.18



SF26 : 00445

PC
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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124015.d
Lab Smp Id: SF26A Client Smp ID: MW11-011911
Inj Date : 24-JAN-2011 16:47
Operator : PC Inst ID: nt7.i
Smp Info : SF26A,10,10,0,
Misc Info : 11-1071
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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					
			ON-COLUMN	FINAL	RT	EXP RT	REL RT	RESPONSE
	MASS		(ng/L)	(ug/L)				
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168		5.316	5.316	(1.000)	356468	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.326	5.325	(1.002)	178908	1086.59	1086.6
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114		5.754	5.744	(1.000)	524390	1000.00	
\$ 9 d8-Toluene	98		6.903	6.902	(1.200)	585351	946.175	946.18
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124015.d
Lab Smp Id: SF26A
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1071

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW11-011911
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	356468	3.08
7 1,4-Difluorobenze	524155	262078	1048310	524390	0.04

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.18

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: SF26A
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1071

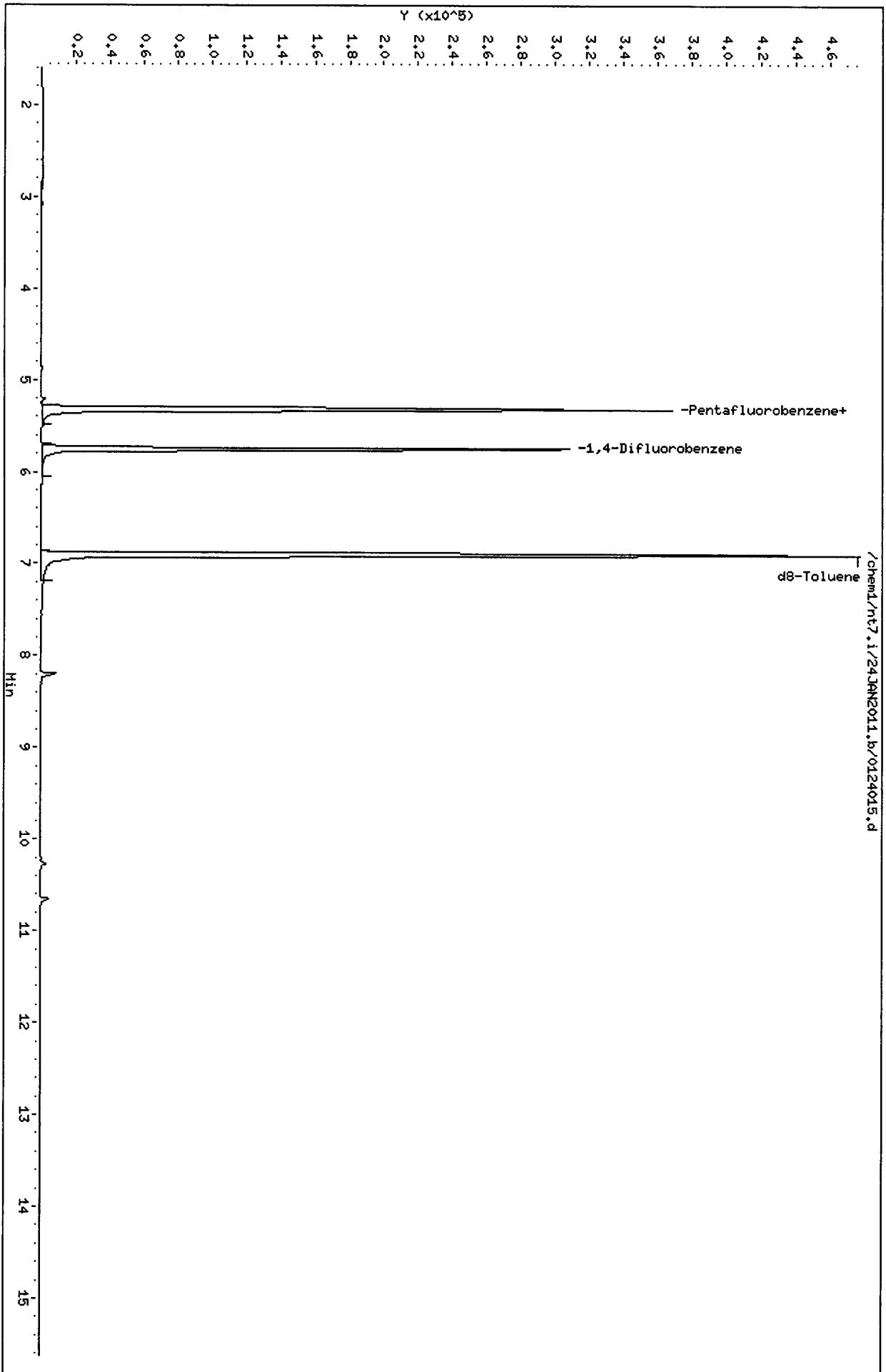
Client SDG: SF26
Fraction: VOA
Client Smp ID: MW11-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1086.6	108.66	80-126
\$ 9 d8-Toluene	1000.0	946.18	94.62	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124015.d
Date : 24-JAN-2011 16:47
Client ID: MM11-011911
Sample Info: SF266,10,10,0,0,

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



PL
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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124016.d
Lab Smp Id: SF26B Client Smp ID: MW10-011911
Inj Date : 24-JAN-2011 17:14
Operator : PC Inst ID: nt7.i
Smp Info : SF26B,10,10,0,
Misc Info : 11-1072
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	329375	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	177133	1164.30	1164.3
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.755	5.744	(1.000)	512900	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	569114	940.538	940.54
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124016.d
Lab Smp Id: SF26B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1072

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW10-011911
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	329375	-4.76
7 1,4-Difluorobenze	524155	262078	1048310	512900	-2.15

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.20

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: SF26B
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1072

Client SDG: SF26
Fraction: VOA
Client Smp ID: MW10-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1164.3	116.43	80-126
\$ 9 d8-Toluene	1000.0	940.54	94.05	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124016.d

Date : 24-JAN-2011 17:14

Client ID: HMI0-011911

Sample Info: SF26B,10,10,0,

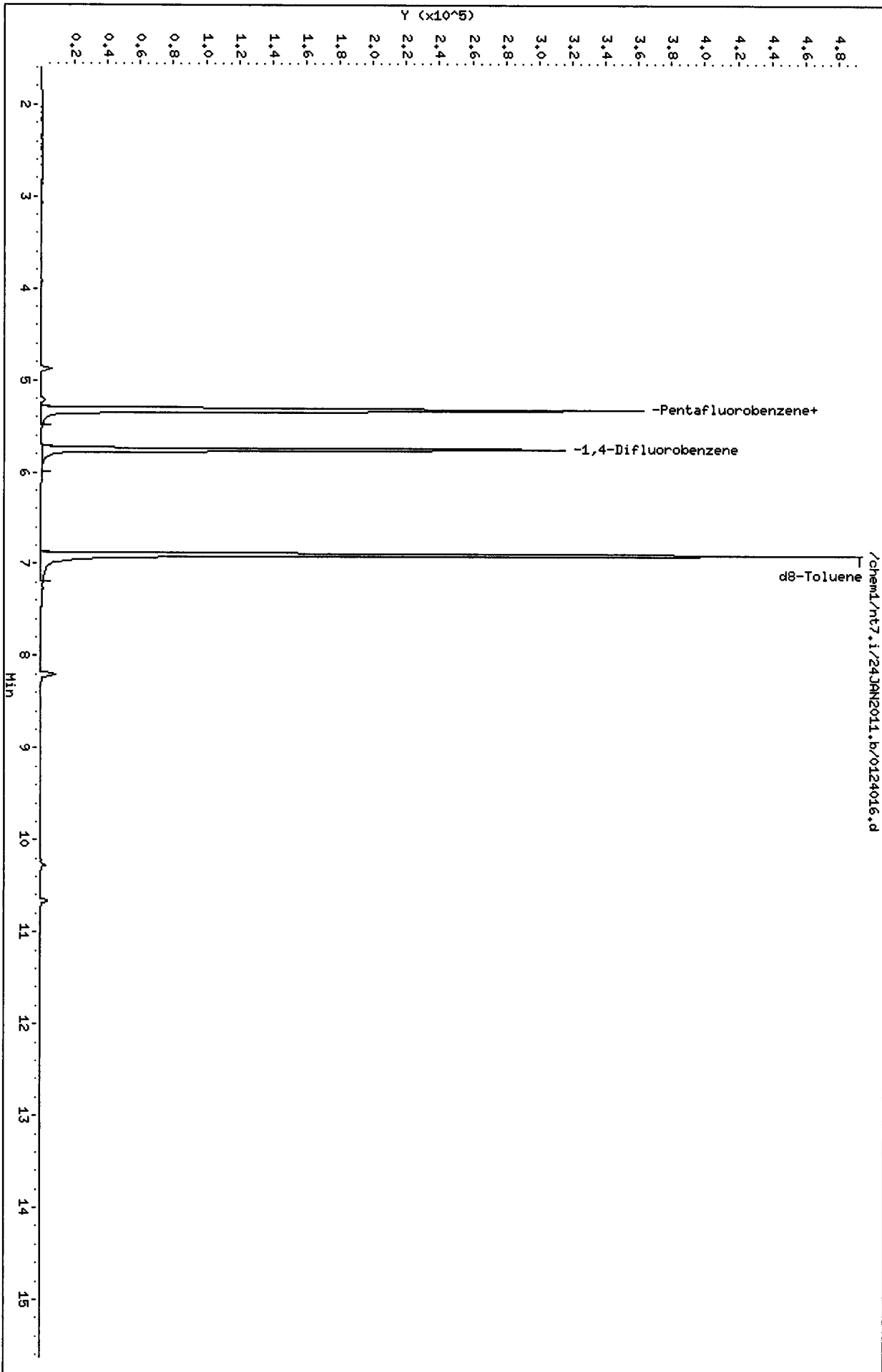
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

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SF26 : 00453

PC
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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124017.d
Lab Smp Id: SF26C Client Smp ID: MW07-011911
Inj Date : 24-JAN-2011 17:42
Operator : PC Inst ID: nt7.i
Smp Info : SF26C,10,10,0,
Misc Info : 11-1073
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	333094	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	180126	1170.76	1170.8
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.754	5.744	(1.000)	497283	1000.00	
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	547533	933.290	933.29
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0124017.d
 Lab Smp Id: SF26C
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-1073

Calibration Date: 24-JAN-2011
 Calibration Time: 12:02
 Client Smp ID: MW07-011911
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	333094	-3.68
7 1,4-Difluorobenze	524155	262078	1048310	497283	-5.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: SF26C
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1073

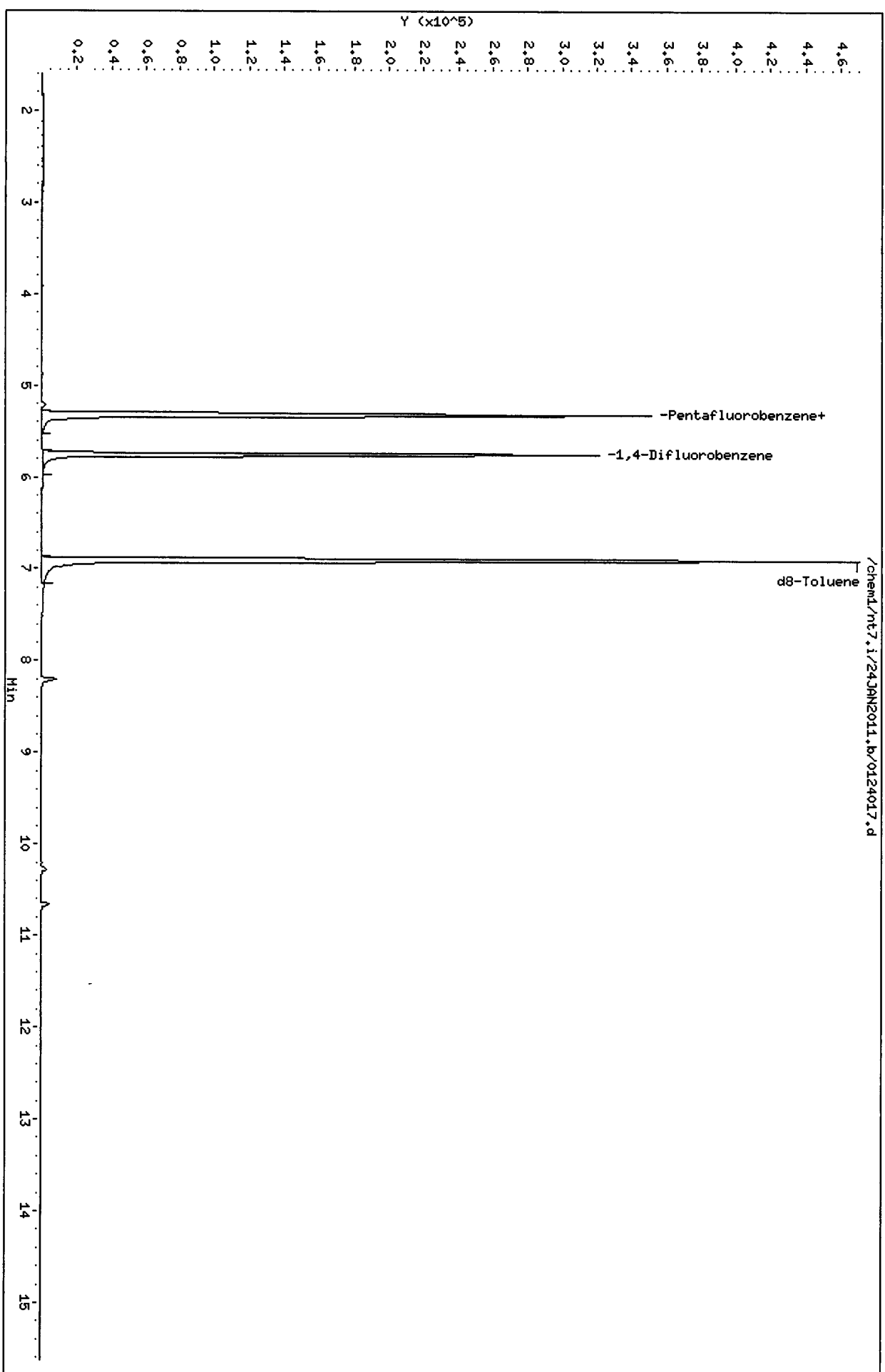
Client SDG: SF26
Fraction: VOA
Client Smp ID: MW07-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1170.8	117.08	80-126
\$ 9 d8-Toluene	1000.0	933.29	93.33	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124017.d
Date : 24-JAN-2011 17:42
Client ID: HM07-011911
Sample Info: SF26C,10,10,0,

Column phase: RTXVHS

Instrument: nt7.1
Operator: PC
Column diameter: 0.18



PC
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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124018.d
Lab Smp Id: SF26D Client Smp ID: MW14-011911
Inj Date : 24-JAN-2011 18:10
Operator : PC Inst ID: nt7.i
Smp Info : SF26D,10,10,0,
Misc Info : 11-1074
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	340121	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	182126	1159.30	1159.3
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.756	5.744	(1.000)	496858	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	547742	934.444	934.44
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0124018.d
 Lab Smp Id: SF26D
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-1074

Calibration Date: 24-JAN-2011
 Calibration Time: 12:02
 Client Smp ID: MW14-011911
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
4 Pentafluorobenzen	345824	172912	691648	340121	-1.65
7 1,4-Difluorobenze	524155	262078	1048310	496858	-5.21

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.20

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: SF26D
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1074

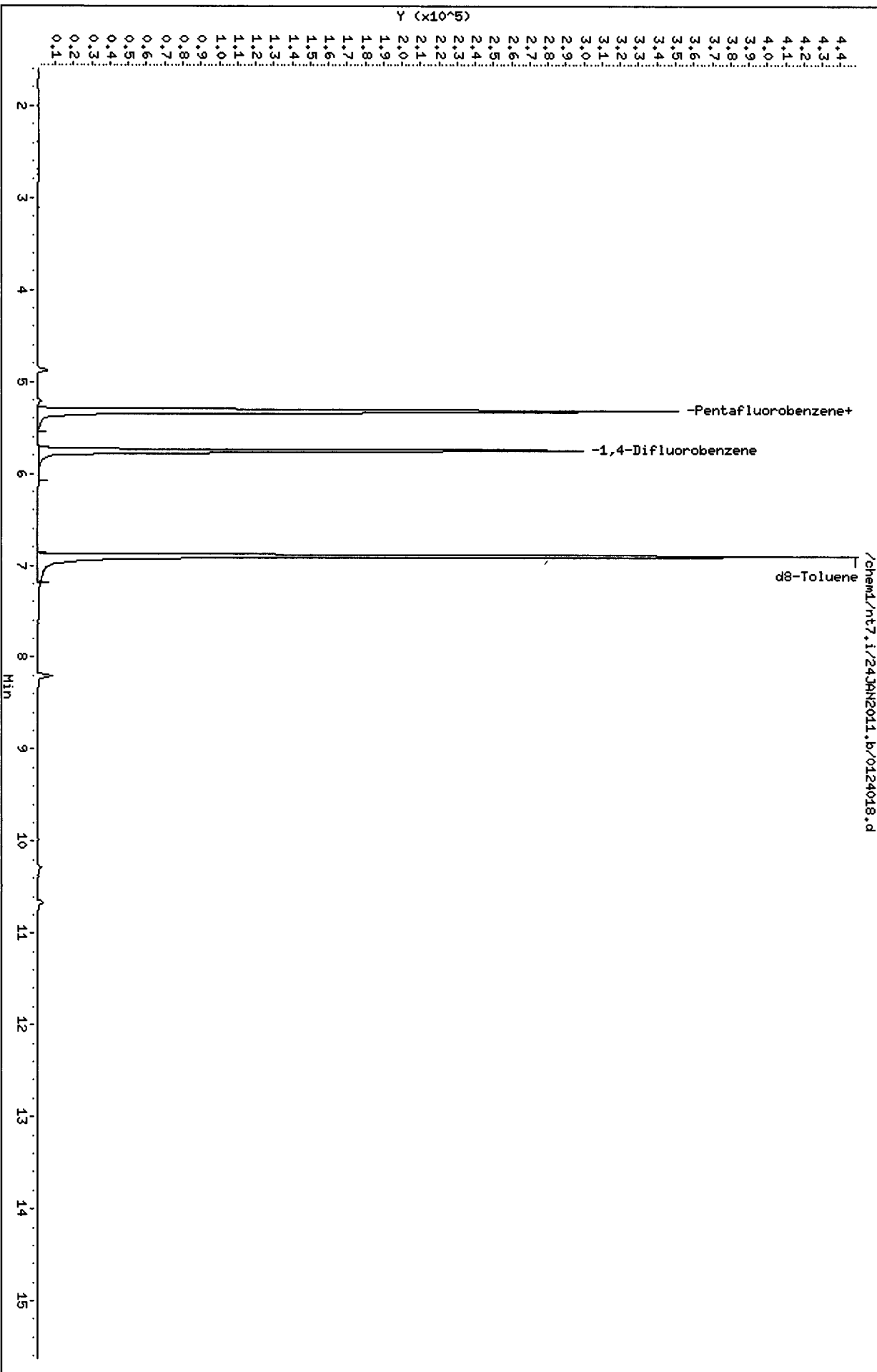
Client SDG: SF26
Fraction: VOA
Client Smp ID: MW14-011911
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1159.3	115.93	80-126
\$ 9 d8-Toluene	1000.0	934.44	93.44	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124018.d
Date: 24-JAN-2011 18:10
Client ID: MMA4-011911
Sample Info: SF26D,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



PC
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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124019.d
Lab Smp Id: SF50A Client Smp ID: MW13-012011
Inj Date : 24-JAN-2011 18:37
Operator : PC Inst ID: nt7.i
Smp Info : SF50A,10,10,0,
Misc Info : 11-1198
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	326519	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	177151	1174.61	1174.6	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.754	5.744	(1.000)	495133	1000.00		
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	545929	934.596	934.60	
10 Tetrachloroethene	166	7.271	7.259	(1.264)	3953	18.7869	18.787	
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0124019.d
 Lab Smp Id: SF50A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-1198

Calibration Date: 24-JAN-2011
 Calibration Time: 12:02
 Client Smp ID: MW13-012011
 Level: LOW
 Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	326519	-5.58
7 1,4-Difluorobenze	524155	262078	1048310	495133	-5.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: SF50A
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1198

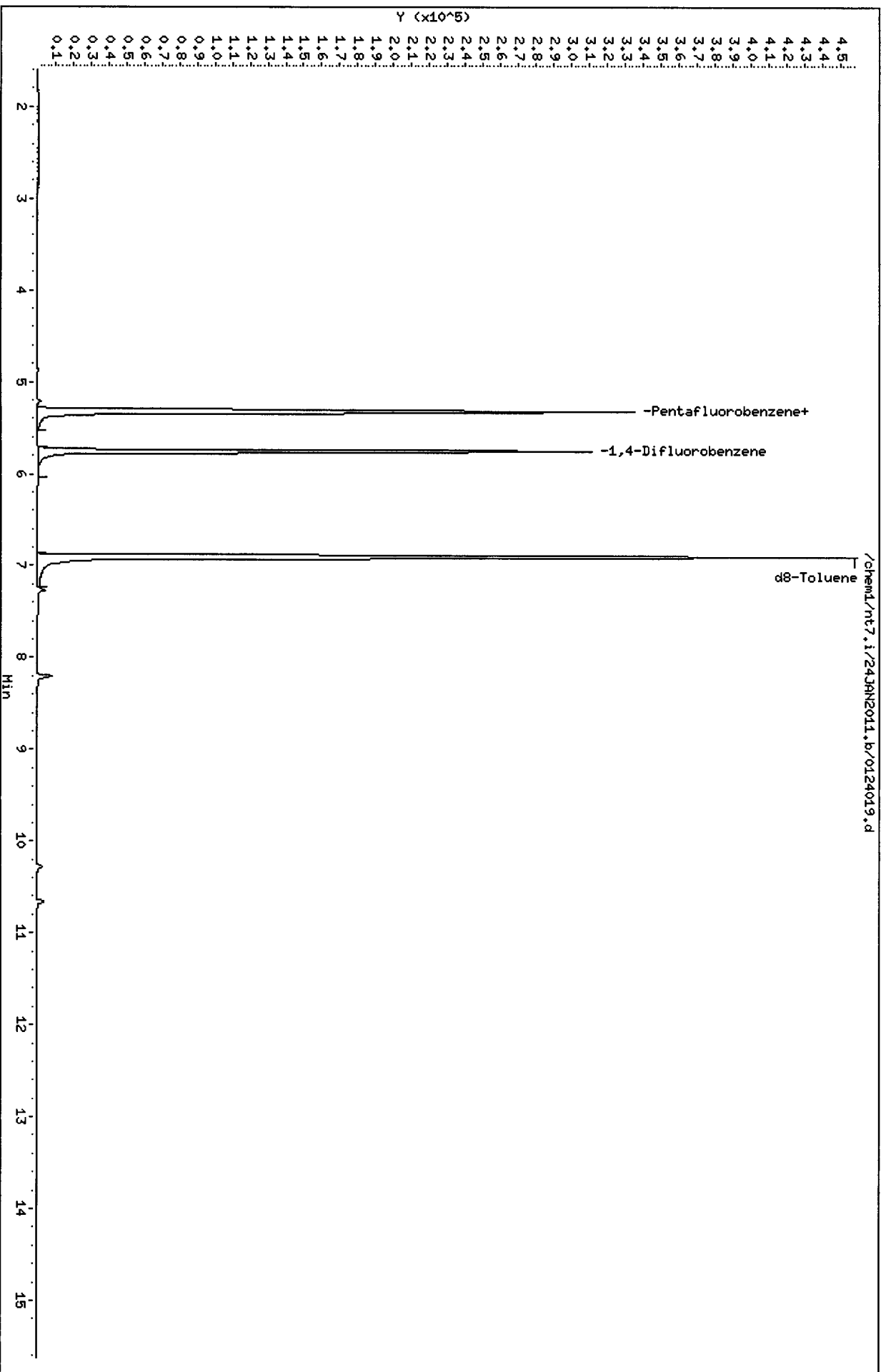
Client SDG: SF50
Fraction: VOA
Client Smp ID: MW13-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1174.6	117.46	80-126
\$ 9 d8-Toluene	1000.0	934.60	93.46	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124019.d
Date: 24-JAN-2011 18:37
Client ID: MM13-012011
Sample Info: SF50H,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



Date : 24-JAN-2011 18:37

Client ID: MW13-012011

Instrument: nt7.i

Sample Info: SF50A,10,10,0,

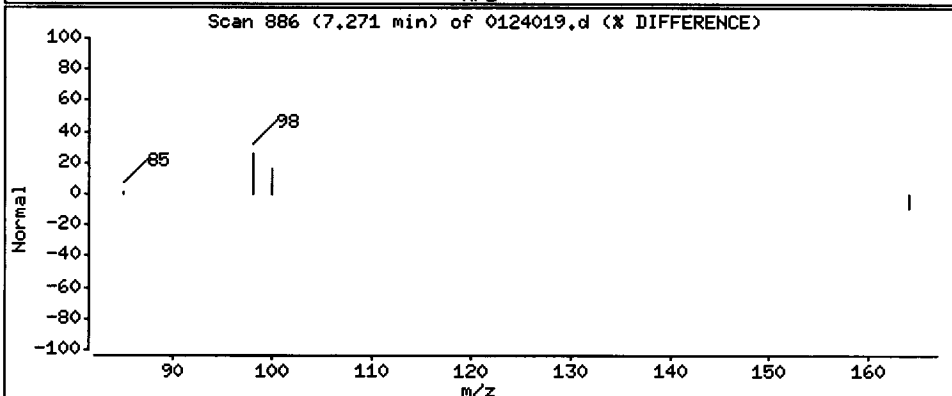
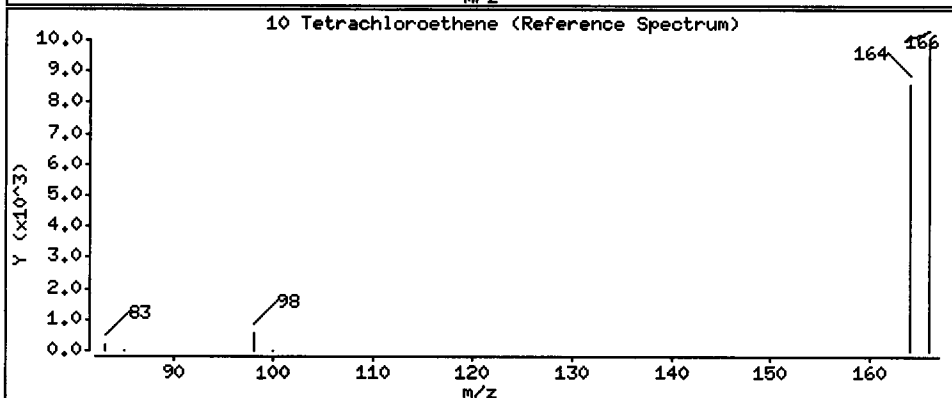
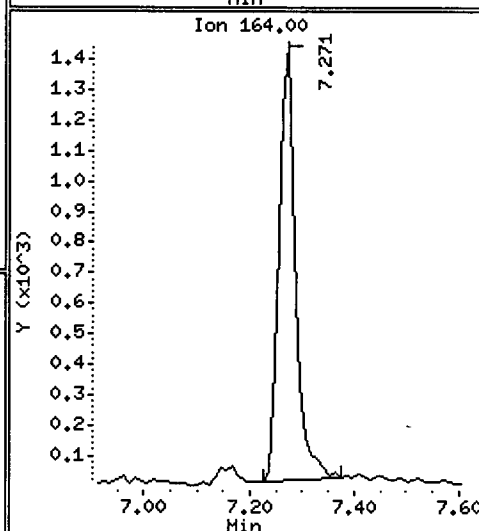
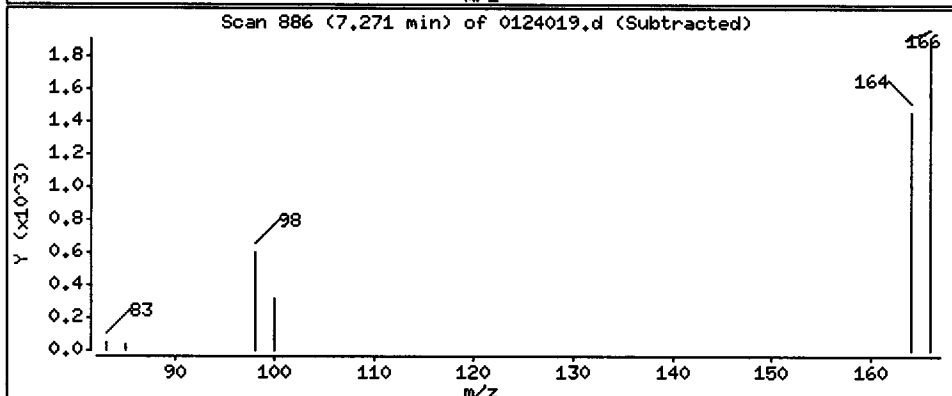
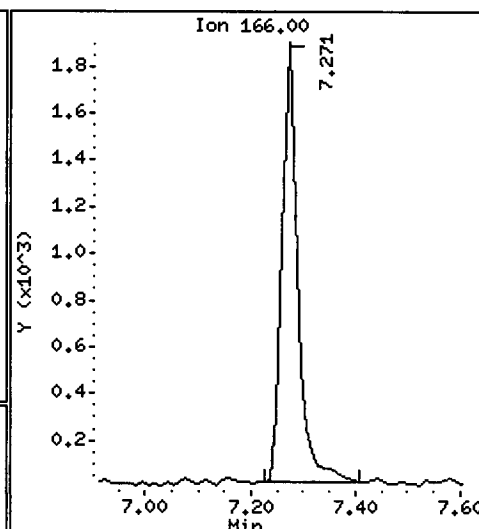
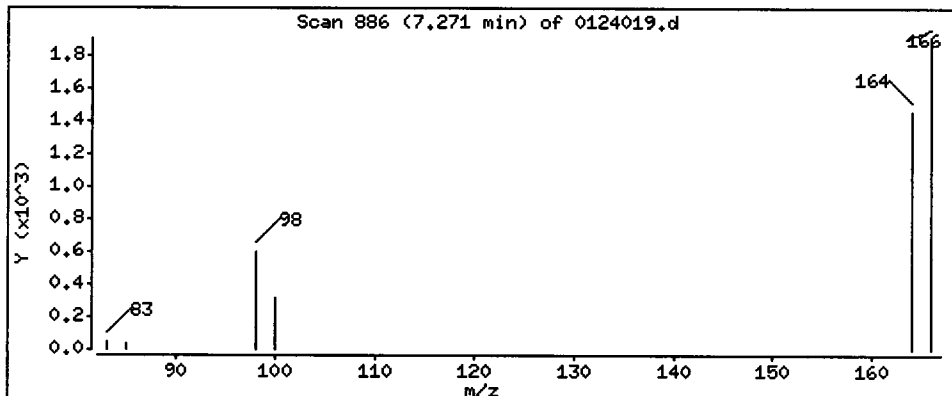
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

10 Tetrachloroethene

Concentration: 18,787 ug/L



PC
1/25/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124020.d
Lab Smp Id: SF50B Client Smp ID: MW06-012011
Inj Date : 24-JAN-2011 19:05
Operator : PC Inst ID: nt7.i
Smp Info : SF50B,10,10,0,
Misc Info : 11-1199
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78	5.210	5.202	(0.905)	18671	22.5527	22.553
* 4 Pentafluorobenzene	168	5.314	5.316	(1.000)	311437	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.325	(1.002)	170382	1184.43	1184.4
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.756	5.744	(1.000)	486890	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	536539	934.072	934.07
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124020.d
Lab Smp Id: SF50B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1199

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW06-012011
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	311437	-9.94
7 1,4-Difluorobenze	524155	262078	1048310	486890	-7.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.20

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: SF50B
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1199

Client SDG: SF50
Fraction: VOA
Client Smp ID: MW06-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1184.4	118.44	80-126
\$ 9 d8-Toluene	1000.0	934.07	93.41	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124020.d

Date: 24-JAN-2011 19:05

Client ID: MW06-012011

Sample Info: SF50B,10,10,0,

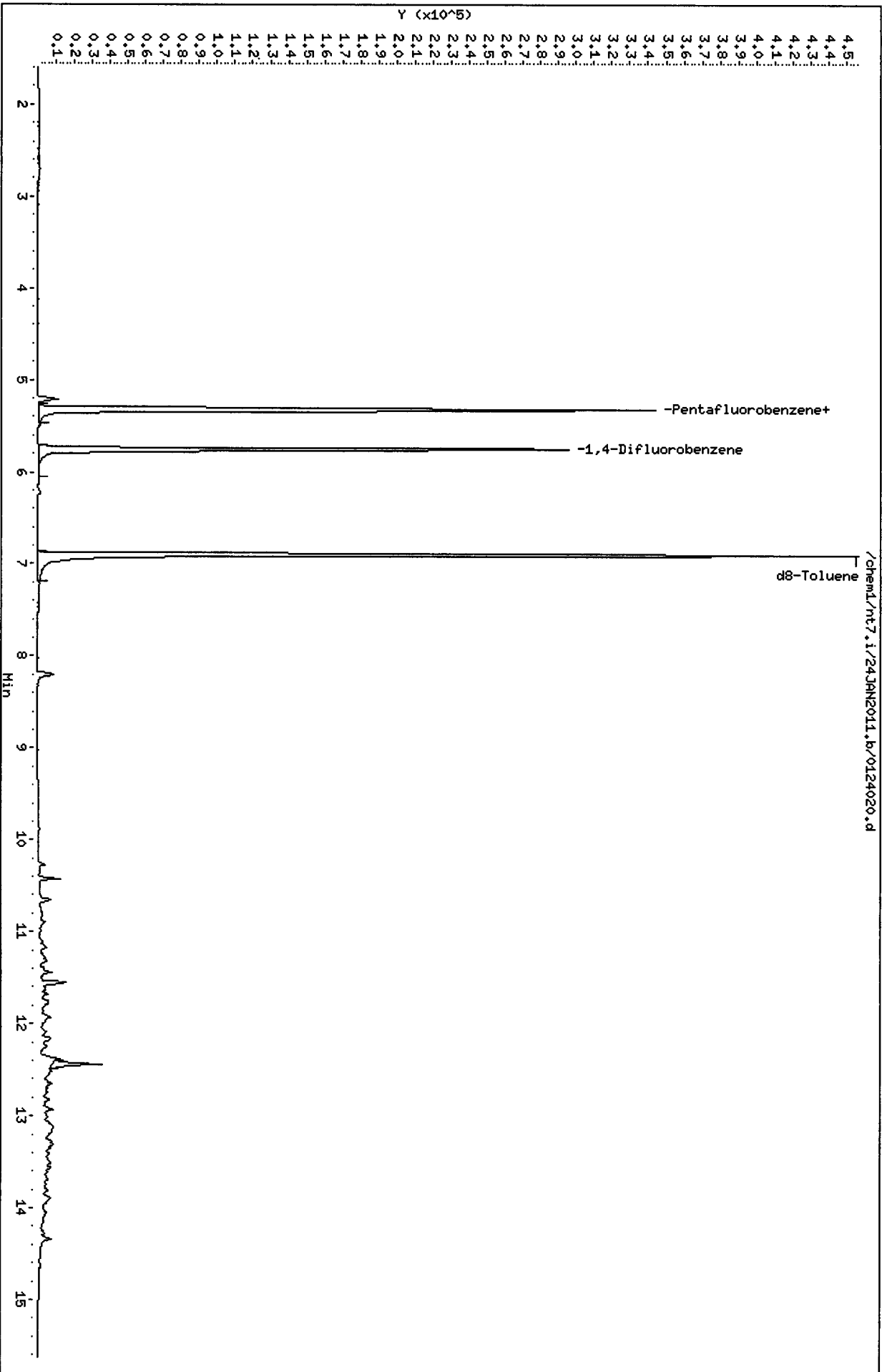
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

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SF 26 : 00479

Date : 24-JAN-2011 19:05

Client ID: MW06-012011

Instrument: nt7.i

Sample Info: SF50B,10,10,0,

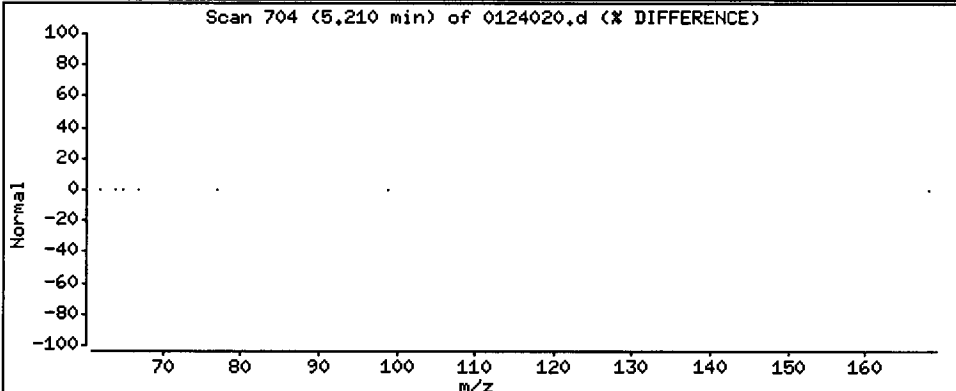
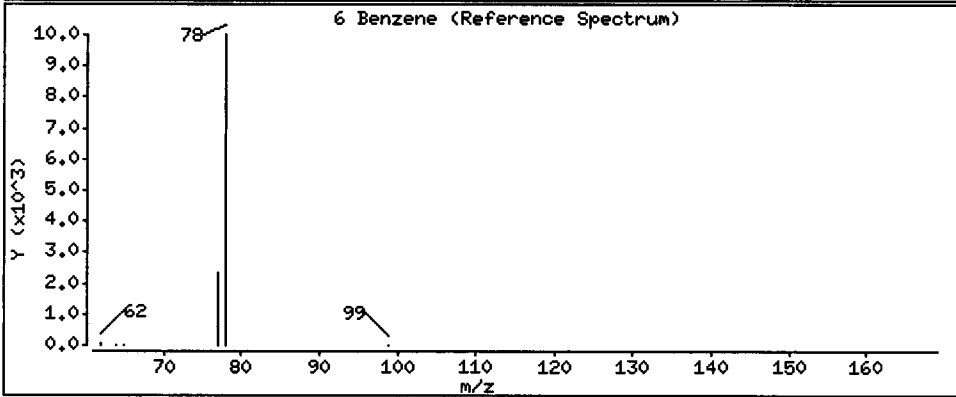
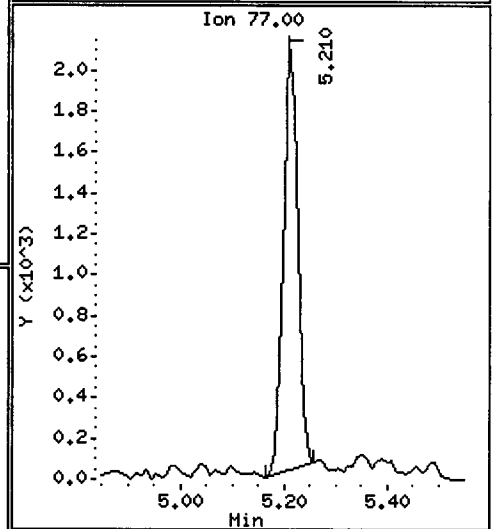
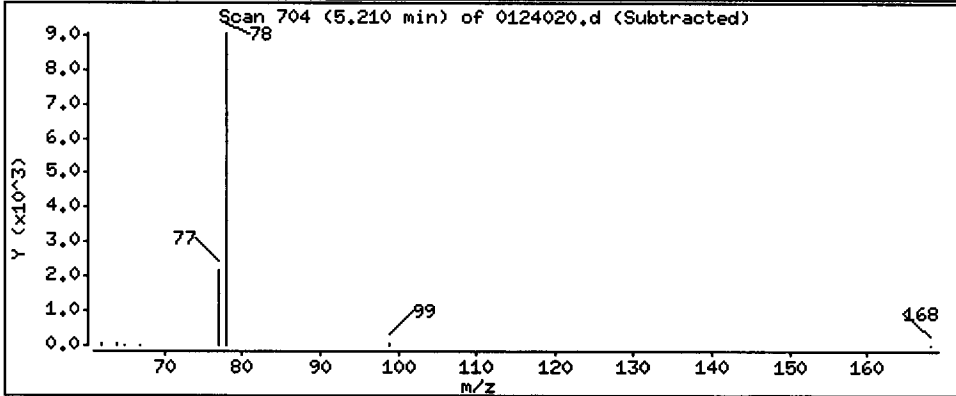
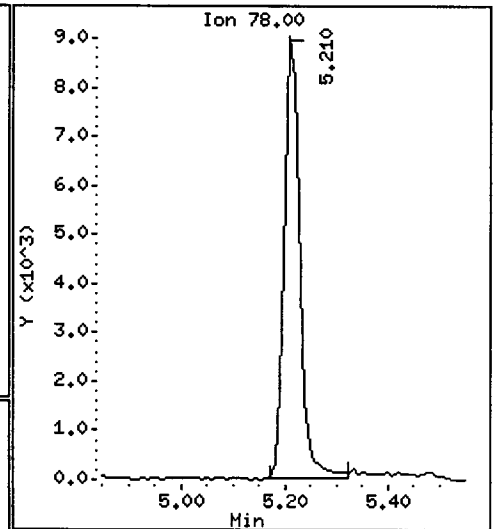
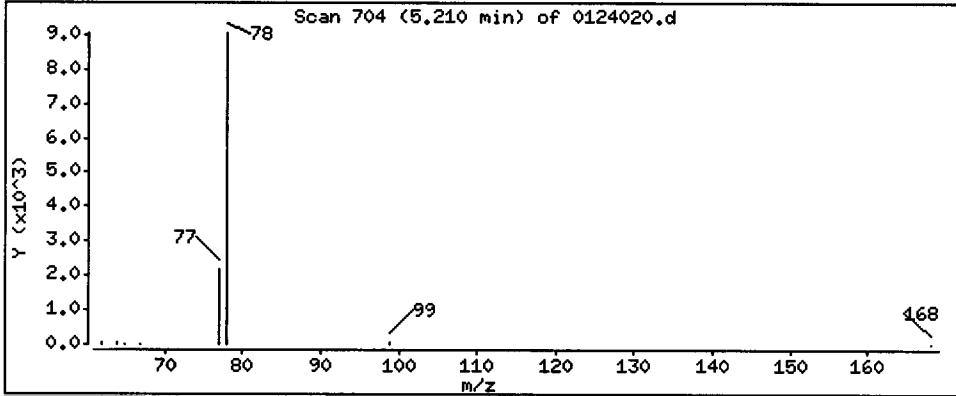
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

6 Benzene

Concentration: 22.553 ug/L



PC
1/25/11

Data File: /chem1/nt7.i/24JAN2011.b/0124021.d
Report Date: 25-Jan-2011 13:51

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124021.d
Lab Smp Id: SF50C Client Smp ID: MW12-012011
Inj Date : 24-JAN-2011 19:33
Operator : PC Inst ID: nt7.i
Smp Info : SF50C,10,10,0,
Misc Info : 11-1200
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	302810	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	161610	1155.46	1155.5
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.754	5.744	(1.000)	473882	1000.00	
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	525392	939.773	939.77
10 Tetrachloroethene	166	7.271	7.259	(1.264)	2321	11.5254	11.525
11 1,1,2,2-Tetrachloroethane	83						

SF26:00472

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124021.d
Lab Smp Id: SF50C
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1200

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW12-012011
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	302810	-12.44
7 1,4-Difluorobenze	524155	262078	1048310	473882	-9.59

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.17

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: SF50C
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1200

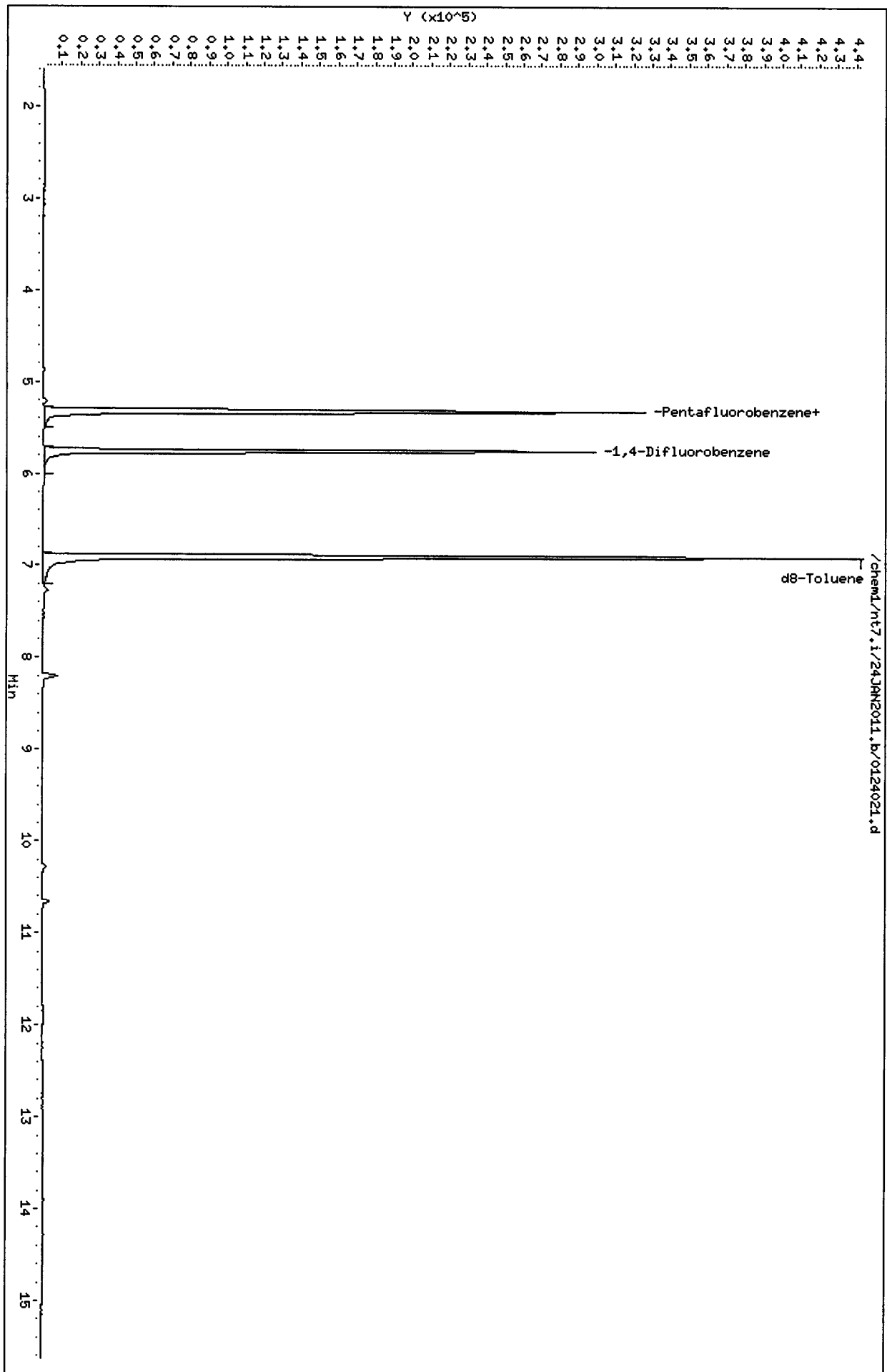
Client SDG: SF50
Fraction: VOA
Client Smp ID: MW12-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1155.5	115.55	80-126
\$ 9 d8-Toluene	1000.0	939.77	93.98	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124021.d
Date: 24-JAN-2011 19:33
Client ID: HML2-012011
Sample Info: SF50C,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



Date : 24-JAN-2011 19:33

Client ID: MW12-012011

Instrument: nt7.i

Sample Info: SF50C,10,10,0,

Operator: PC

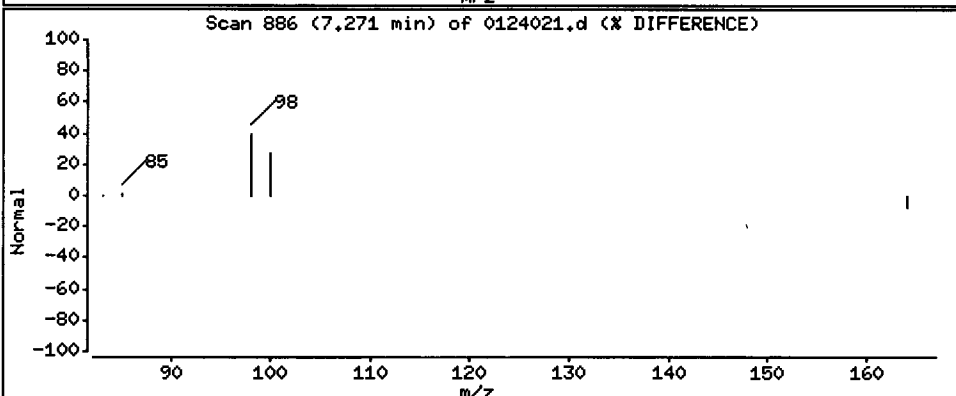
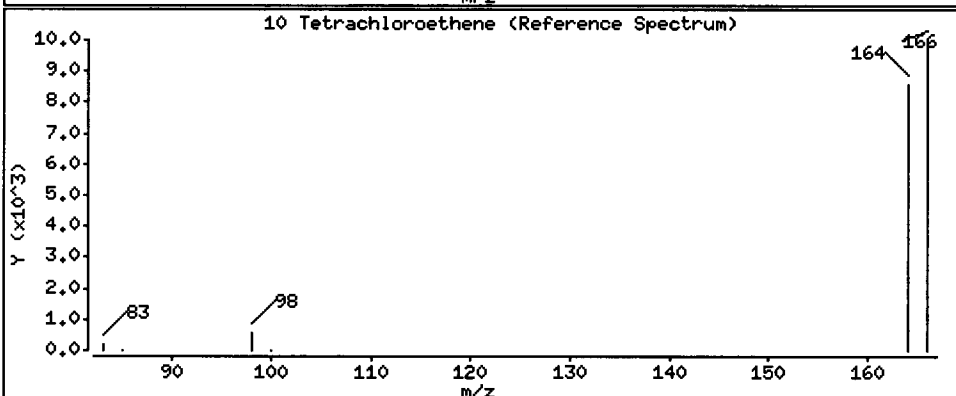
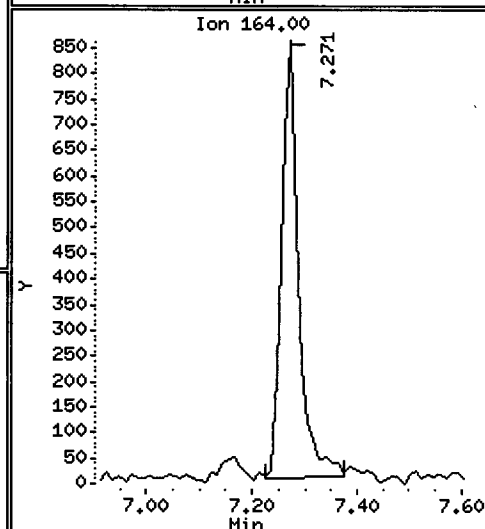
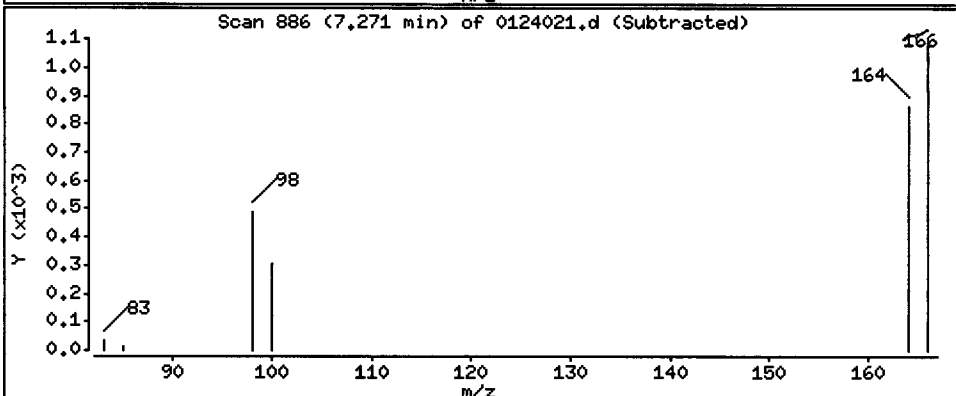
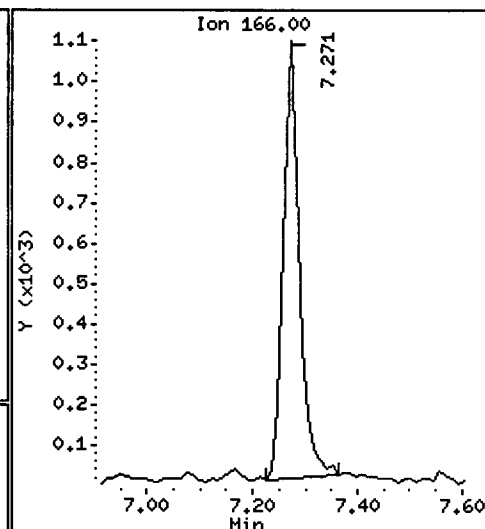
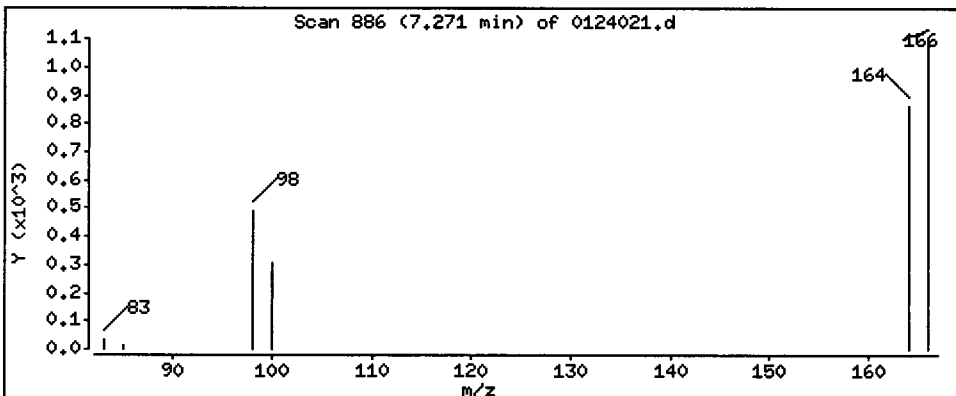
Column phase: RTXVMS

Column diameter: 0.18

10 Tetrachloroethene

Concentration: 11.525 ug/L

CAL



PG
1/25/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124022.d
Lab Smp Id: SF50D Client Smp ID: MW04-012011
Inj Date : 24-JAN-2011 20:00
Operator : PC Inst ID: nt7.i
Smp Info : SF50D,10,10,0,
Misc Info : 11-1201
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 25-Jan-2011 13:51 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.324	5.316	(1.000)	315274	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.333	5.325	(1.002)	161522	1109.18	1109.2
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.755	5.744	(1.000)	472815	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	527105	944.965	944.96
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124022.d
Lab Smp Id: SF50D
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1201

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW04-012011
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	315274	-8.83
7 1,4-Difluorobenze	524155	262078	1048310	472815	-9.79

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.15
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.19

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: SF50D
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1201

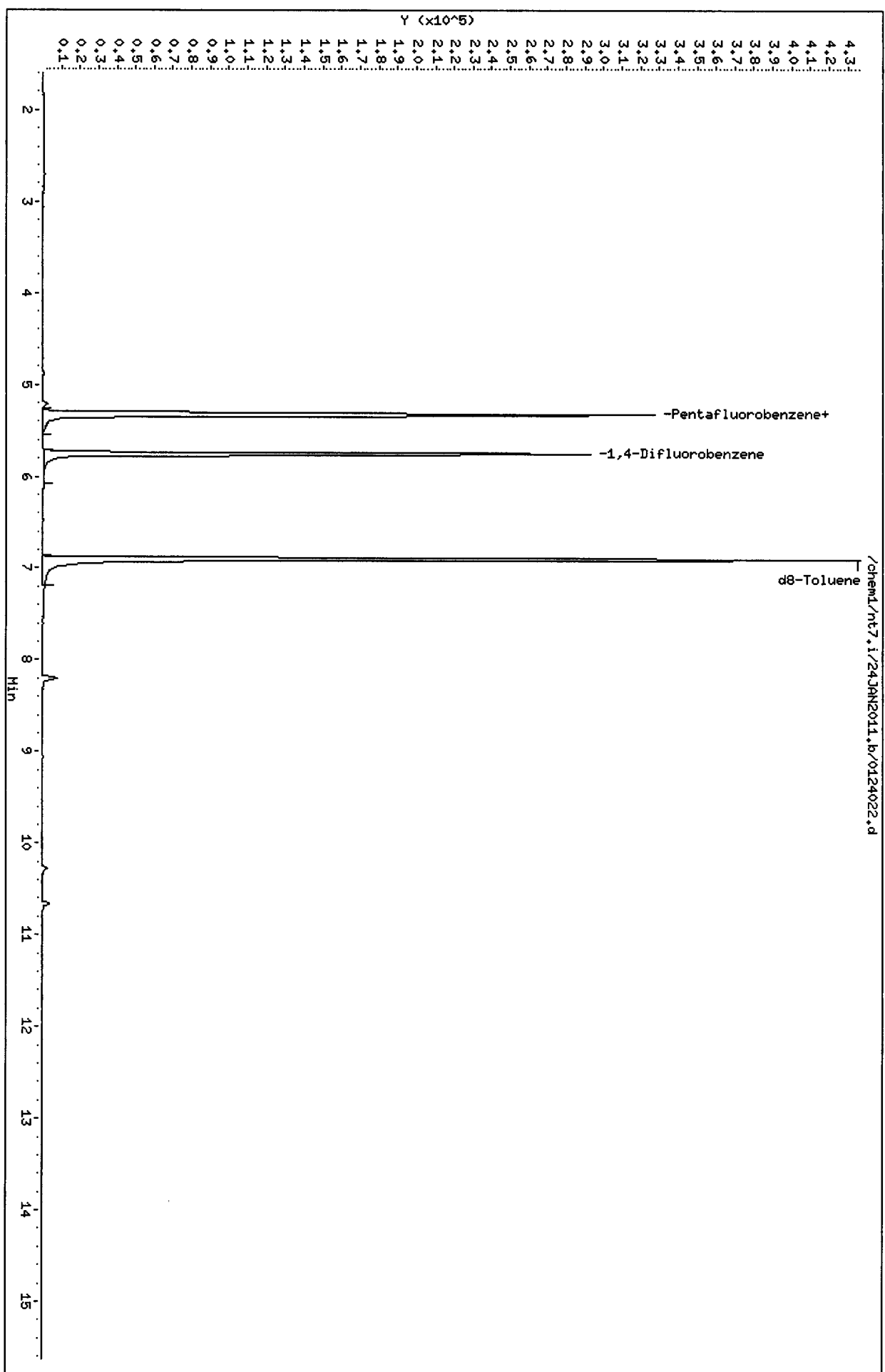
Client SDG: SF50
Fraction: VOA
Client Smp ID: MW04-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1109.2	110.92	80-126
\$ 9 d8-Toluene	1000.0	944.96	94.50	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124022.d
Date : 24-JAN-2011 20:00
Client ID: HM04-012011
Sample Info: SFS0D,10,10,0,

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



SF 25 : 00120

PG
1/25/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124023.d
Lab Smp Id: SF26DMS Client Smp ID: MW14-011911 MS
Inj Date : 24-JAN-2011 20:28
Operator : PC Inst ID: nt7.i
Smp Info : SF26DMS,10,10,0,
Misc Info : 11-1074
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 24-Jan-2011 13:06 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.552	1.551	(0.292)	298441	1086.20	1086.2
2 1,1-Dichloroethene	96	2.510	2.504	(0.472)	195009	995.208	995.21
175 Trans-1,2-Dichloroethene	96	3.290	3.283	(0.619)	215246	987.484	987.48
3 cis-1,2-dichloroethene	96	4.439	4.433	(0.835)	215070	961.213	961.21 /
6 Benzene	78	5.211	5.202	(0.905)	934969	1158.51	1158.5
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	303416	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.325	(1.002)	145723	1039.79	1039.8
176 1,2-Dichloroethane	62	5.382	5.382	(1.012)	282757	1097.02	1097.0 /
8 Trichloroethene	130	5.710	5.710	(0.992)	212836	1115.86	1115.9 /
* 7 1,4-Difluorobenzene	114	5.756	5.744	(1.000)	474632	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	537070	959.143	959.14
10 Tetrachloroethene	166	7.259	7.259	(1.261)	181811	901.389	901.39 -
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446	(1.641)	140384	953.817	953.82

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0124023.d
Lab Smp Id: SF26DMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
Misc Info: 11-1074

Calibration Date: 24-JAN-2011
Calibration Time: 12:02
Client Smp ID: MW14-011911 MS
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	303416	-12.26
7 1,4-Difluorobenze	524155	262078	1048310	474632	-9.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.21

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: SF26DMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-1074

Client SDG: SF26
 Fraction: VOA
 Client Smp ID: MW14-011911 MS
 Operator: PC
 SampleType: MS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1086.2	108.62	76-120
176 1,2-Dichloroethane	1000.0	1097.0	109.70	80-128
175 Trans-1,2-Dichloro	1000.0	987.48	98.75	80-120
2 1,1-Dichloroethene	1000.0	995.21	99.52	80-120
3 cis-1,2-dichloroet	1000.0	961.21	96.12	80-120
6 Benzene	1000.0	1158.5	115.85	80-120
8 Trichloroethene	1000.0	1115.9	111.59	80-120
10 Tetrachloroethene	1000.0	901.39	90.14	80-122
11 1,1,2,2-Tetrachlor	1000.0	953.82	95.38	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1039.8	103.98	80-126
\$ 9 d8-Toluene	1000.0	959.14	95.91	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124023.d

Date : 24-JAN-2011 20:28

Client ID: H414-011911 MS

Sample Info: SF26DMS.10.10.0,

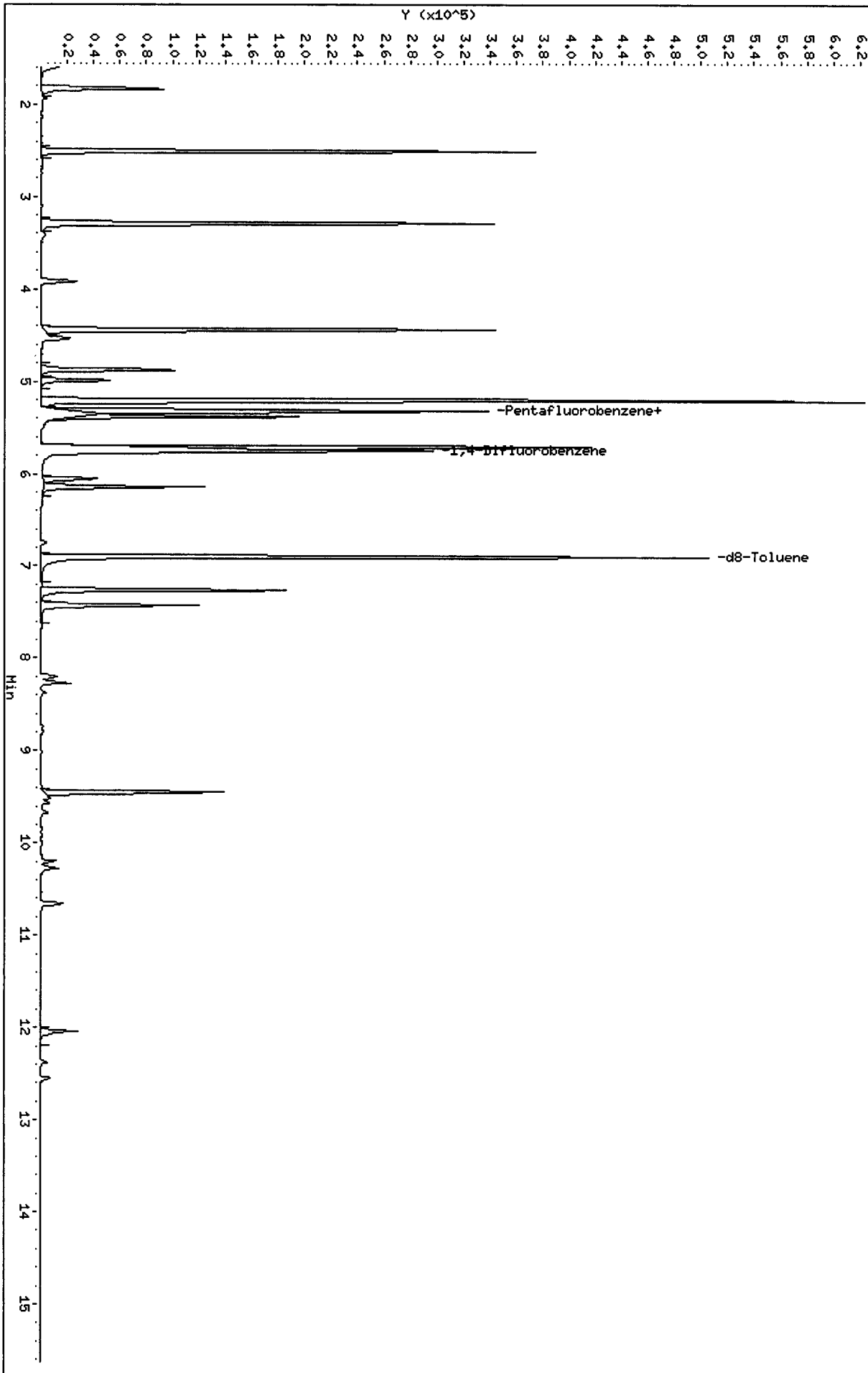
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/24JAN2011.b/0124023.d



PC
1/25/11

Data File: /chem1/nt7.i/24JAN2011.b/0124024.d
Report Date: 25-Jan-2011 13:50

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/24JAN2011.b/0124024.d
Lab Smp Id: SF26DMSD Client Smp ID: MW14-011911 MSD
Inj Date : 24-JAN-2011 20:55
Operator : PC Inst ID: nt7.i
Smp Info : SF26DMSD,10,10,0,
Misc Info : 11-1074
Comment :
Method : /chem1/nt7.i/24JAN2011.b/sim121310.m
Meth Date : 24-Jan-2011 13:06 paul Quant Type: ISTD
Cal Date : 13-DEC-2010 12:24 Cal File: 121310014.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.552	1.551	(0.292)	303960	1138.52	1138.5 ✓
2 1,1-Dichloroethene	96	2.510	2.504	(0.472)	199555	1048.08	1048.1 ✓
175 Trans-1,2-Dichloroethene	96	3.290	3.283	(0.619)	219970	1038.56	1038.6 ✓
3 cis-1,2-dichloroethene	96	4.439	4.433	(0.835)	224206	1031.24	1031.2
6 Benzene	78	5.212	5.202	(0.906)	956750	1199.65	1199.6
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	294827	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.325	(1.002)	145233	1066.48	1066.5
176 1,2-Dichloroethane	62	5.383	5.382	(1.012)	285033	1138.07	1138.1 ✓
8 Trichloroethene	130	5.709	5.710	(0.992)	214830	1139.75	1139.8 ✓
* 7 1,4-Difluorobenzene	114	5.755	5.744	(1.000)	469035	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	531009	959.636	959.64
10 Tetrachloroethene	166	7.270	7.259	(1.263)	188359	944.999	945.00 ✓
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446	(1.641)	143315	985.352	985.35

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 24-JAN-2011
Lab File ID: 0124024.d	Calibration Time: 12:02
Lab Smp Id: SF26DMSD	Client Smp ID: MW14-011911 MSD
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: PC	
Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m	
Misc Info: 11-1074	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	345824	172912	691648	294827	-14.75
7 1,4-Difluorobenze	524155	262078	1048310	469035	-10.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.18

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: SF26DMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/24JAN2011.b/sim121310.m
 Misc Info: 11-1074

Client SDG: SF26
 Fraction: VOA
 Client Smp ID: MW14-011911 MSD
 Operator: PC
 SampleType: MSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1138.5	113.85	76-120
176 1,2-Dichloroethane	1000.0	1138.1	113.81	80-128
175 Trans-1,2-Dichloro	1000.0	1038.6	103.86	80-120
2 1,1-Dichloroethene	1000.0	1048.1	104.81	80-120
3 cis-1,2-dichloroet	1000.0	1031.2	103.12	80-120
6 Benzene	1000.0	1199.6	119.96	80-120
8 Trichloroethene	1000.0	1139.8	113.98	80-120
10 Tetrachloroethene	1000.0	945.00	94.50	80-122
11 1,1,2,2-Tetrachlor	1000.0	985.35	98.54	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1066.5	106.65	80-126
\$ 9 d8-Toluene	1000.0	959.64	95.96	80-120

Data File: /chem1/nt7.i/24JAN2011.b/0124024.d

Date : 24-JAN-2011 20:55

Client ID: HML4-011911 MSD

Sample Info: SF26DHSD.10.10.0',

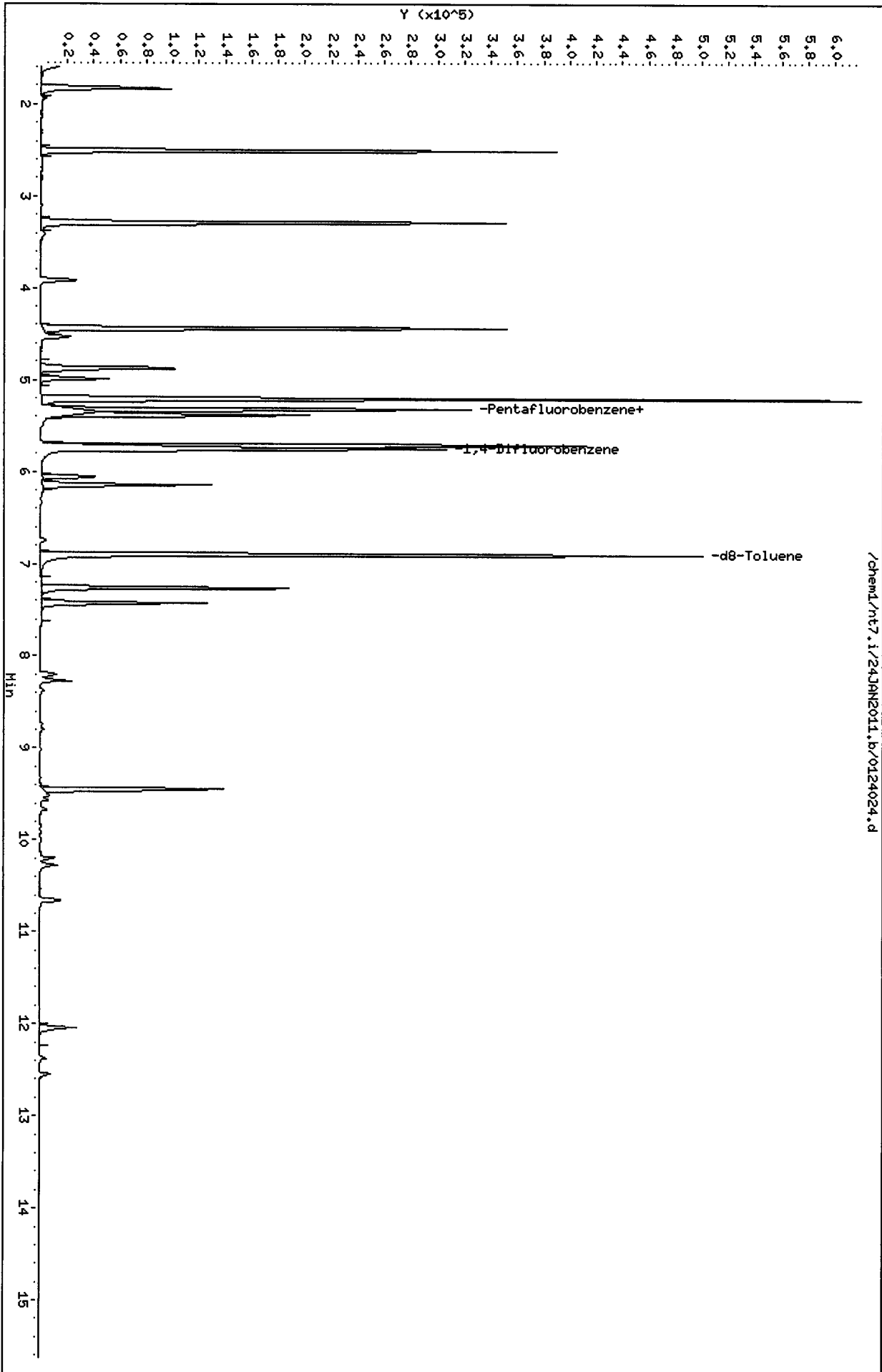
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/24JAN2011.b/0124024.d





VOA Analyst Notes / Corrective Action Log

ARI Project ID: 5F76 Client ID: Floyd/Smidt

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): Sim VOA

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: 1/25/11 Analysis Start Date: 1/25/11
pc 1/27/11

pH ≤ 2.0	<u>YES</u> / NO / NA	Method Blank In Control?	<u>YES</u> / NO
BFB Tune Meets Criteria?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	<u>YES</u> / NO / NA	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	<u>YES</u> / NO / NA	Q flag applied?	<u>YES</u> / NO / NA
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>Yes</u> / NO
Special Analysis Criteria Met?	YES / NO / <u>NA</u>		
Bubbles/Headspace:	<u>None</u>	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: PC Date: 1/27/11

Reviewer: [Signature] Date: 1/28/11

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 1/26/11 Analysis: PC Analyst: PL
 GC Program: VC Column No: 850322 Column Type: K&VMS
 Instrument Tune (.U or .CT.): 6E60126 EM Voltage: 2847
 Calibration File: CC0126 Curve Date: 1/25/11

IS/SS	Ical/Ccal	LCS/ICV
<u>U4673-2</u>	<u>U4672-2</u>	<u>U4672-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/26JAN2011.b

Time	Filename	LabID	ClientID	WT
1 0919	0126001.d	BFB0126	BFB0126	0.00
2 0950	0126002.d	CC0125	CC0125	1 5.32 337966 5.74 527215
3 1025	0126003.d	LCS0125	LCS0125	1 5.32 334906 5.74 520187
4 1049	0126004.d	LCS0125	LCS0125	1 5.31 328286 5.75 507573
5 1115	0126005.d	MM0125	MM0125	1 5.32 331387 5.76 507370
6 1150	0126006.d	SF76I	TB-012111	3 <2 1 5.32 333462 5.75 510332
7 1215	0126007.d	SF48E	BGM167-110120	3 1 5.32 323541 5.76 498349
8 1241	0126008.d	SF48I	BGM135-110120	1 1 5.32 323543 5.76 500092
9 1307	0126009.d	SF50E	MM17-012011	9 1 5.32 338088 5.75 502735
10 1332	0126010.d	SF50F	MM03-012011	15 1 5.31 325971 5.76 501294
11 1358	0126011.d	SF76A	MM-15-012111	4 1 5.32 324490 5.76 501355
12 1424	0126012.d	SF76B	MM-05-012111	3 1 5.32 335105 5.75 497970
13 1449	0126013.d	SF76C	MM-16-012111	7 1 5.31 326191 5.74 504266
14 1515	0126014.d	SF76D	MM-02-012111	3 1 5.32 340001 5.76 499176
15 1540	0126015.d	SF76E	MM-09-012111	6 1 5.32 333391 5.75 498239
16 1606	0126016.d	SF76F	MM-08-012111	5 1 5.32 323026 5.76 497240
17 1632	0126017.d	SF76G	MM-01-012111	5 1 5.32 324999 5.74 509077
18 1657	0126018.d	SF76H	MM-01-012111-D	6 1 5.32 344757 5.75 538999
19 1723	0126019.d	SF76BMS		7 1 5.32 337851 5.75 530477
20 1749	0126020.d	SF76BMSD		5 1 5.32 330432 5.76 516730
21 1814	0126021.d	SF67A	MM-1	1 1 5.32 330847 5.75 520446
22 1840	0126022.d	SF67B	MM-2	1 1 5.32 323704 5.75 502192
23 1906	0126023.d	SF67C	MM-3	1 <2 1 5.32 320385 5.76 509810
24 1931	0126024.d	SF67D	MM-3A	1 1 5.32 304156 5.76 439793
25 1957	0126025.d	SF67E	MM-4	1 1 5.32 243956 5.75 379698
26 2022	0126026.d	SF67F	MM-4A	1 1 5.32 243822 5.76 391639
27 2048	0126027.d	SF67G	MM-5	1 1 5.32 230031 5.76 340410

Maintenance / Comments

PC 1/27/11

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.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt7.i/26JAN2011.b

ARI Job No.: CC01 Method: sim012511.m Instrument: nt7.i Date: 26-JAN-2011

Time Filename LabID ClientID DF Manually Integrated Compounds

0958	0126002.d	CC0125	CC0125	1	d4-1,2-Dichloroethane,
1025	0126003.d	LCS0125	LCS0125	1	d4-1,2-Dichloroethane,
1049	0126004.d	LCS0125	LCS0125	1	d4-1,2-Dichloroethane,
1115	0126005.d	MB0125	MB0125	1	NO MANUAL INTEGRATION
1150	0126006.d	SF76I	TB-012111	1	NO MANUAL INTEGRATION
1307	0126009.d	SF50E	MW17-01201	1	NO MANUAL INTEGRATION
1332	0126010.d	SF50F	MW03-01201	1	NO MANUAL INTEGRATION
1358	0126011.d	SF76A	MW-15-0121	1	NO MANUAL INTEGRATION
1424	0126012.d	SF76B	MW-05-0121	1	NO MANUAL INTEGRATION
1449	0126013.d	SF76C	MW-16-0121	1	NO MANUAL INTEGRATION
1515	0126014.d	SF76D	MW-02-0121	1	NO MANUAL INTEGRATION
1540	0126015.d	SF76E	MW-09-0121	1	NO MANUAL INTEGRATION
1606	0126016.d	SF76F	MW-08-0121	1	NO MANUAL INTEGRATION
1632	0126017.d	SF76G	MW-01-0121	1	NO MANUAL INTEGRATION
1657	0126018.d	SF76H	MW-01-0121	1	NO MANUAL INTEGRATION
1723	0126019.d	SF76BMS	MW-05-0121	1	NO MANUAL INTEGRATION
1749	0126020.d	SF76BMSD	MW-05-0121	1	NO MANUAL INTEGRATION

107501

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt7.i/26JAN2011.b

Instrument: nt7.i Date: 26-JAN-2011 Method: sim012511.m

INITIAL CAL: 25-JAN-2011

Compound	%RSD or R ²
----------	------------------------

NO Q-FLAGS

CONTINUING CAL: 26-JAN-2011

Compound	%D
----------	----

NO Q-FLAGS

Date : 26-JAN-2011 09:19

Client ID: BFB0126

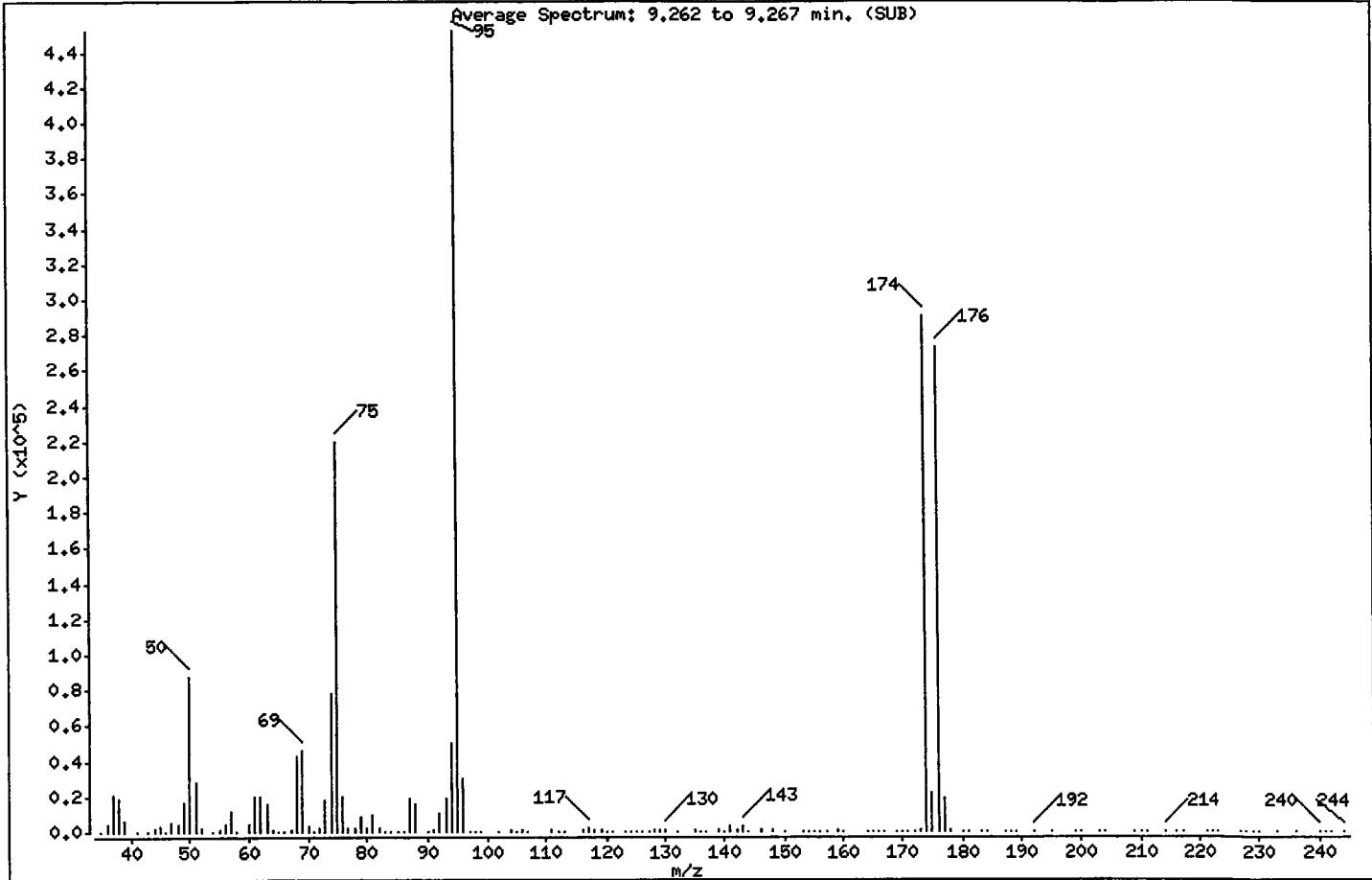
Instrument: nt7.i

Sample Info: BFB0126

Operator: PC

Column phase: RTXVMS
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	19.45
75	30.00 - 66.00% of mass 95	48.53
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.15 (0.24)
174	50.00 - 101.00% of mass 95	64.22
175	4.00 - 9.00% of mass 174	4.85 (7.55)
176	93.00 - 101.00% of mass 174	60.29 (93.88)
177	5.00 - 9.00% of mass 176	4.10 (6.80)

Date : 26-JAN-2011 09:19

Client ID: BFB0126

Instrument: nt7.i

Sample Info: BFB0126

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0126001.d
Spectrum: Average Spectrum: 9.262 to 9.267 min. (SUB)
Location of Maximum: 95.00
Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	199	77.00	2332	125.00	179	177.00	18536
36.00	4340	78.00	1981	126.00	304	178.00	1025
37.00	20880	79.00	8241	127.00	57	180.00	71
38.00	19200	80.00	1964	128.00	1172	181.00	227
39.00	6163	81.00	8918	129.00	708	183.00	261
41.00	470	82.00	1825	130.00	1195	184.00	293
43.00	301	83.00	247	132.00	119	187.00	62
44.00	1737	84.00	417	135.00	758	188.00	153
45.00	3454	85.00	297	136.00	118	189.00	111
46.00	97	86.00	501	137.00	513	192.00	274
47.00	4866	87.00	18824	139.00	548	195.00	179
48.00	3700	88.00	15468	140.00	299	199.00	105
49.00	17008	90.00	67	141.00	3076	200.00	66
50.00	87928	91.00	737	142.00	580	203.00	124
51.00	27680	92.00	9933	143.00	3202	204.00	177
52.00	1626	93.00	18504	144.00	320	209.00	93
54.00	170	94.00	50160	146.00	692	210.00	50
55.00	939	95.00	452096	148.00	1371	211.00	66
56.00	4199	96.00	30440	150.00	265	214.00	241
57.00	11231	97.00	512	153.00	442	216.00	54
58.00	368	98.00	119	154.00	266	217.00	199
60.00	3974	99.00	106	155.00	411	221.00	110
61.00	19944	102.00	326	156.00	176	222.00	118
62.00	19832	104.00	1275	157.00	189	223.00	140
63.00	15124	105.00	407	159.00	780	227.00	140
64.00	844	106.00	1095	160.00	101	228.00	59
65.00	417	107.00	270	164.00	271	229.00	166
66.00	24	111.00	606	165.00	285	230.00	167
67.00	1296	112.00	311	166.00	87	233.00	107
68.00	42208	113.00	49	167.00	76	236.00	192
69.00	46168	116.00	1206	169.00	271	240.00	276
70.00	3399	117.00	2231	170.00	170	241.00	60
71.00	53	118.00	1126	171.00	51	242.00	90
72.00	2514	119.00	1125	172.00	441	244.00	59
73.00	18064	120.00	61	173.00	692		

Date : 26-JAN-2011 09:19

Client ID: BFB0126

Instrument: nt7.i

Sample Info: BFB0126

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0126001.d

Spectrum: Average Spectrum; 9.262 to 9.267 min. (SUB)

Location of Maximum: 95.00

Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	77672	121.00	9	174.00	290304		
75.00	219392	123.00	246	175.00	21928		
76.00	20080	124.00	287	176.00	272576		

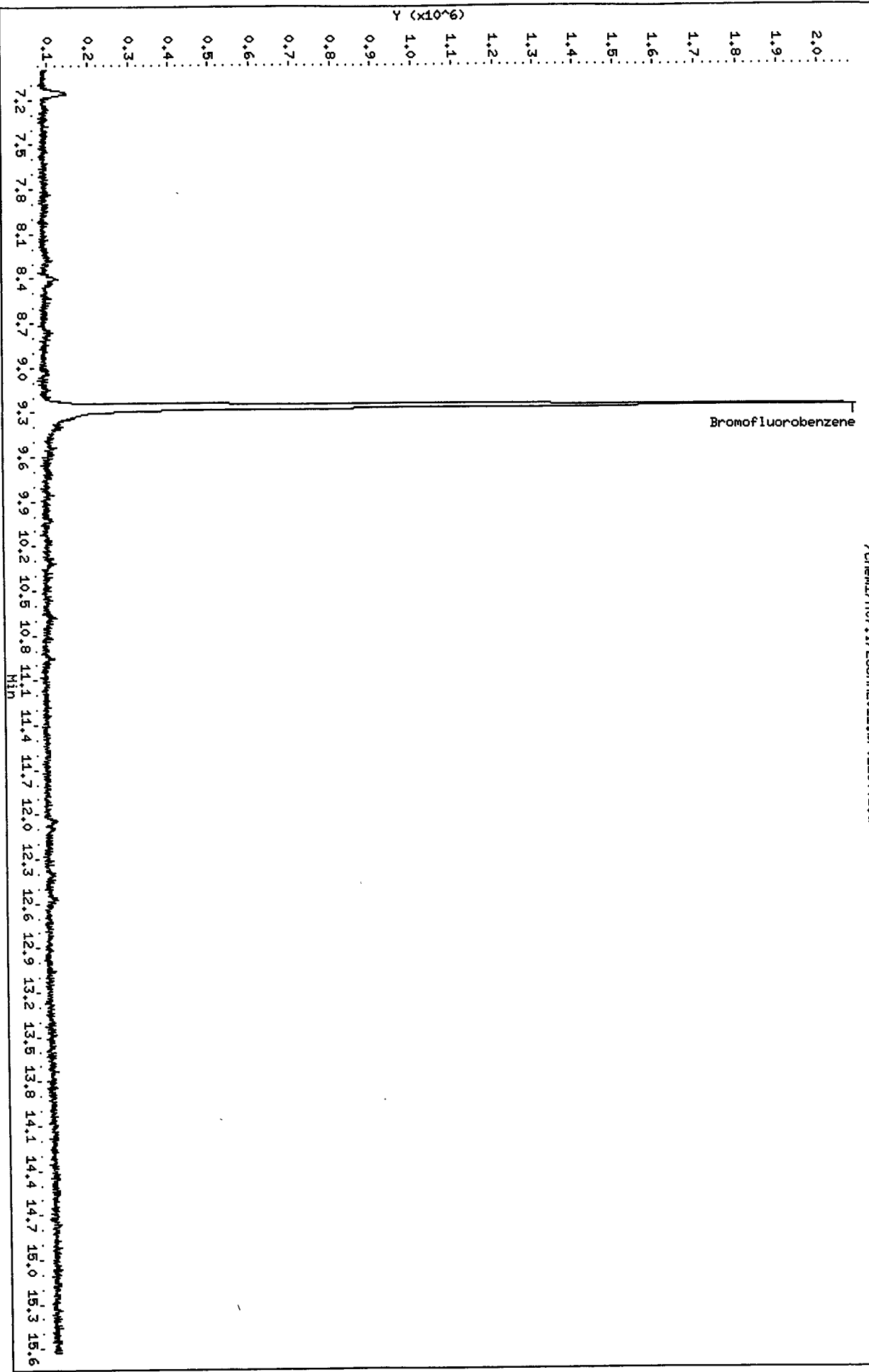
Data File: /chem1/nt7.i/26JAN2011.b/0126001.d
Date: 26-JAN-2011 09:19
Client ID: BFB0126
Sample Info: BFB0126

Instrument: nt7.i

Column phase: RTXWMS

Operator: PC
Column diameter: 0.18

/chem1/nt7.i/26JAN2011.b/0126001.d



PC
1/26/11

Data File: /chem1/nt7.i/26JAN2011.b/0126002.d
Report Date: 26-Jan-2011 16:30

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126002.d
Lab Smp Id: CC0125 Client Smp ID: CC0125
Inj Date : 26-JAN-2011 09:58
Operator : PC Inst ID: nt7.i
Smp Info : CC0125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 26-Jan-2011 16:28 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Compound Sublist: sim12dca.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 (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.550	1.550	(0.292)	244542	1000.00	927.98
2 1,1-Dichloroethene	96		2.505	2.505	(0.471)	185530	1000.00	948.34
175 Trans-1,2-Dichloroethene	96		3.284	3.284	(0.618)	205931	1000.00	949.92
3 cis-1,2-dichloroethene	96		4.434	4.434	(0.834)	209585	1000.00	943.98
6 Benzene	78		5.203	5.203	(0.906)	901134	1000.00	913.89
* 4 Pentafluorobenzene	168		5.316	5.316	(1.000)	337966	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.326	5.326	(1.002)	186444	1000.00	1032.2 (M)
176 1,2-Dichloroethane	62		5.383	5.383	(1.012)	264290	1000.00	977.61
8 Trichloroethene	130		5.709	5.709	(0.994)	205182	1000.00	941.02
* 7 1,4-Difluorobenzene	114		5.743	5.743	(1.000)	527215	1000.00	
\$ 9 d8-Toluene	98		6.902	6.902	(1.202)	586510	1000.00	992.40
10 Tetrachloroethene	166		7.259	7.259	(1.264)	181957	1000.00	960.71
11 1,1,2,2-Tetrachloroethane	83		9.446	9.446	(1.645)	130999	1000.00	1014.5

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt7.i Injection Date: 26-JAN-2011 09:58
Lab File ID: 0126002.d Init. Cal. Date(s): 25-JAN-2011 25-JAN-2011
Analysis Type: WATER Init. Cal. Times: 12:28 15:10
Lab Sample ID: CC0125 Quant Type: ISTD
Method: /chem1/nt7.i/26JAN2011.b/sim012511.m

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Vinyl Chloride	0.77973	0.72357	0.040	-7.20211	20.00000	Averaged
2 1,1-Dichloroethene	0.57886	0.54896	0.040	-5.16553	20.00000	Averaged
175 Trans-1,2-Dichloroethene	0.64145	0.60932	0.040	-5.00817	20.00000	Averaged
3 cis-1,2-dichloroethene	0.65694	0.62014	0.040	-5.60195	20.00000	Averaged
6 Benzene	1.87029	1.70923	0.040	-8.61103	20.00000	Averaged
\$ 5 d4-1,2-Dichloroethane	0.53447	0.55167	0.040	3.21807	20.00000	Averaged
176 1,2-Dichloroethane	0.79991	0.78200	0.040	-2.23934	20.00000	Averaged
8 Trichloroethene	0.41357	0.38918	0.040	-5.89784	20.00000	Averaged
\$ 9 d8-Toluene	1.12099	1.11247	0.040	-0.76021	20.00000	Averaged
10 Tetrachloroethene	0.35924	0.34513	0.040	-3.92872	20.00000	Averaged
11 1,1,2,2-Tetrachloroethane	0.24492	0.24847	0.040	1.45178	20.00000	Averaged

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0126002.d
 Lab Smp Id: CC0125
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-

Calibration Date: 26-JAN-2011
 Calibration Time: 09:58
 Client Smp ID: CC0125
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	337966	1.10
7 1,4-Difluorobenze	528497	264248	1056994	527215	-0.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	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/nt7.1/26JAN2011.b/0126002.d

Date: 26-JAN-2011 09:58

Client ID: CC0125

Sample Info: CC0125.10.10.0

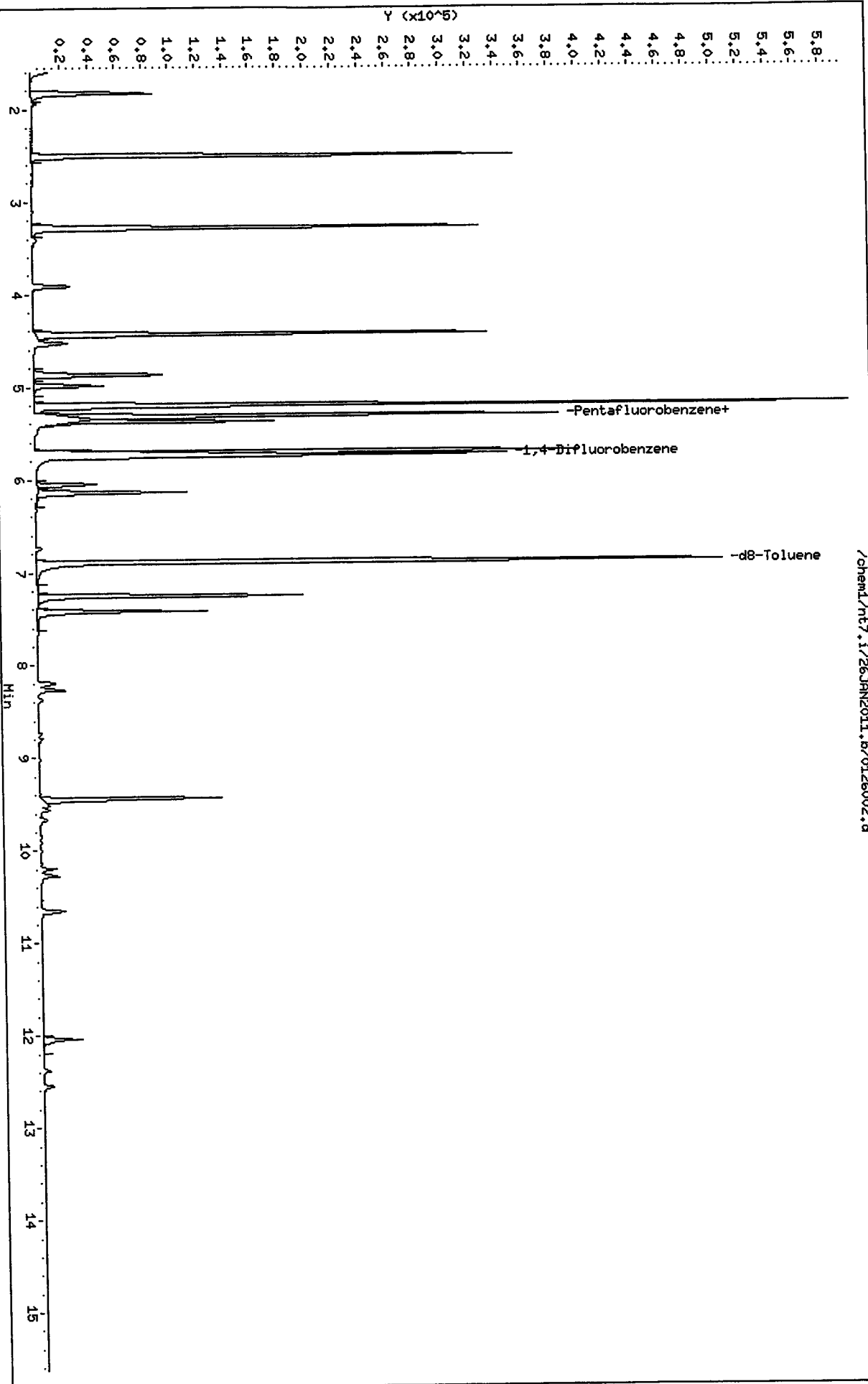
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

/chem1/nt7.1/26JAN2011.b/0126002.d

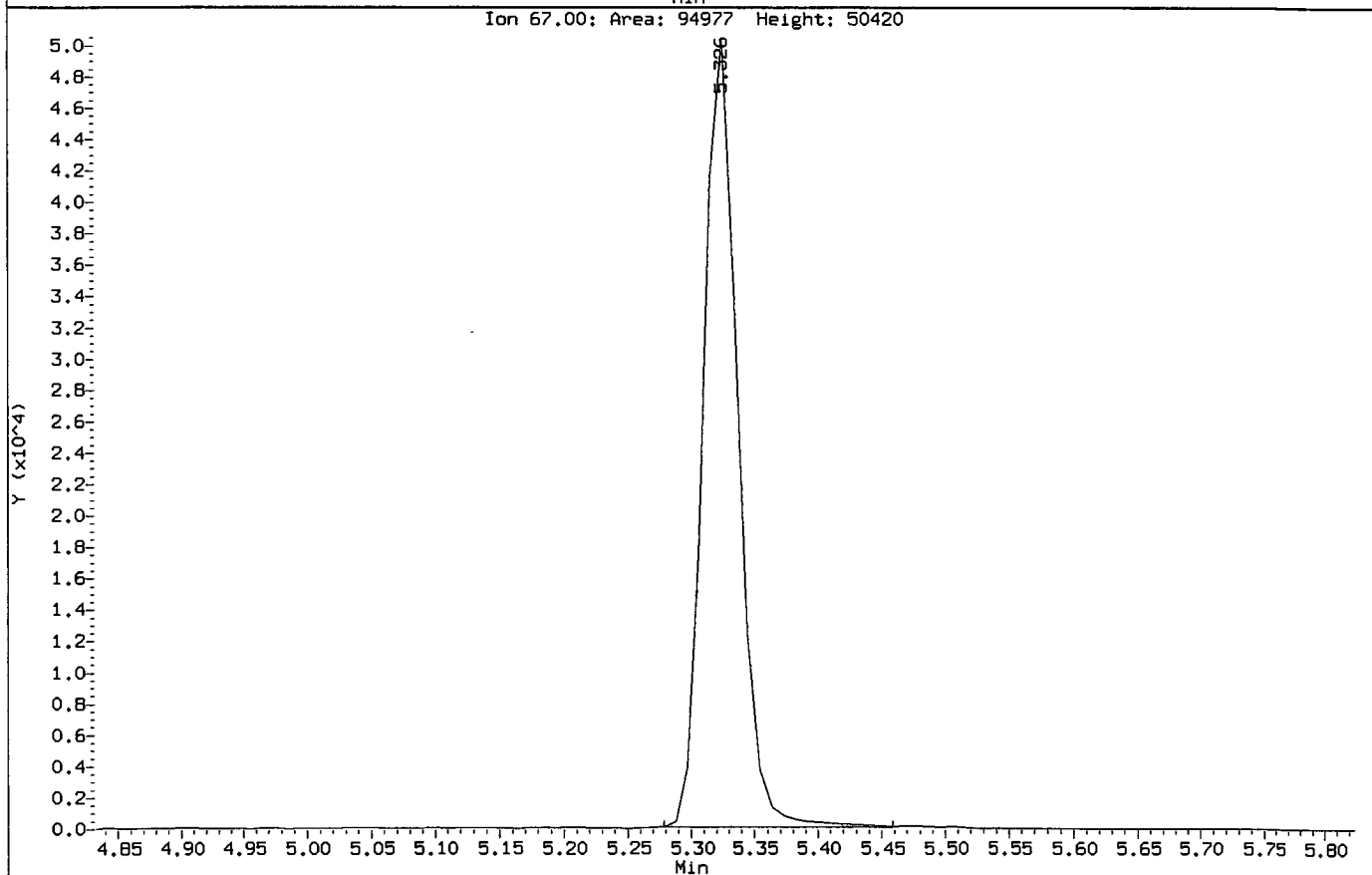
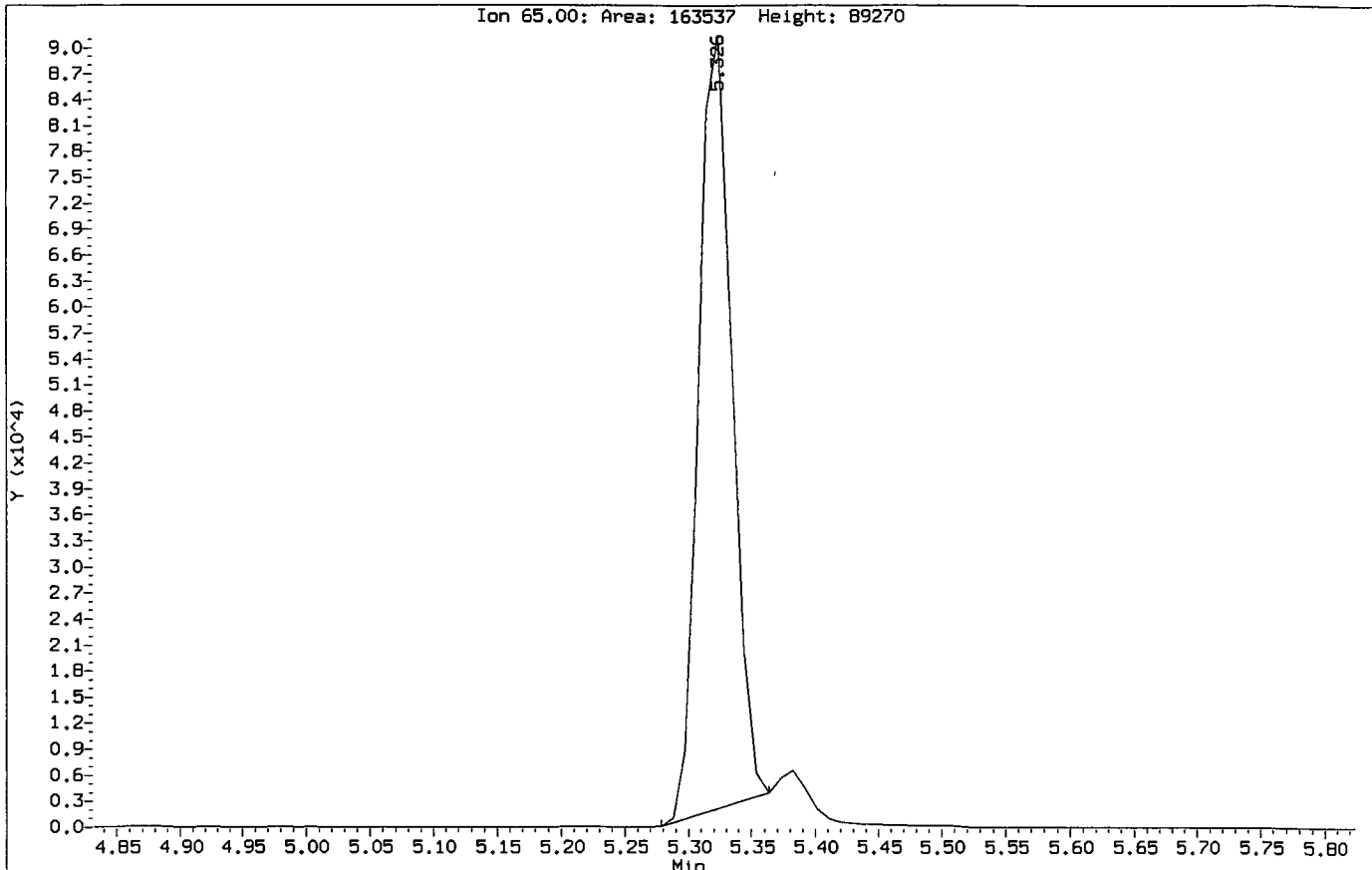


09:58:26

Data File: /chem1/nt7.1/26JAN2011.b/0126002.d
Injection Date: 26-JAN-2011 09:58
Instrument: nt7.1
Client Sample ID: CC0125

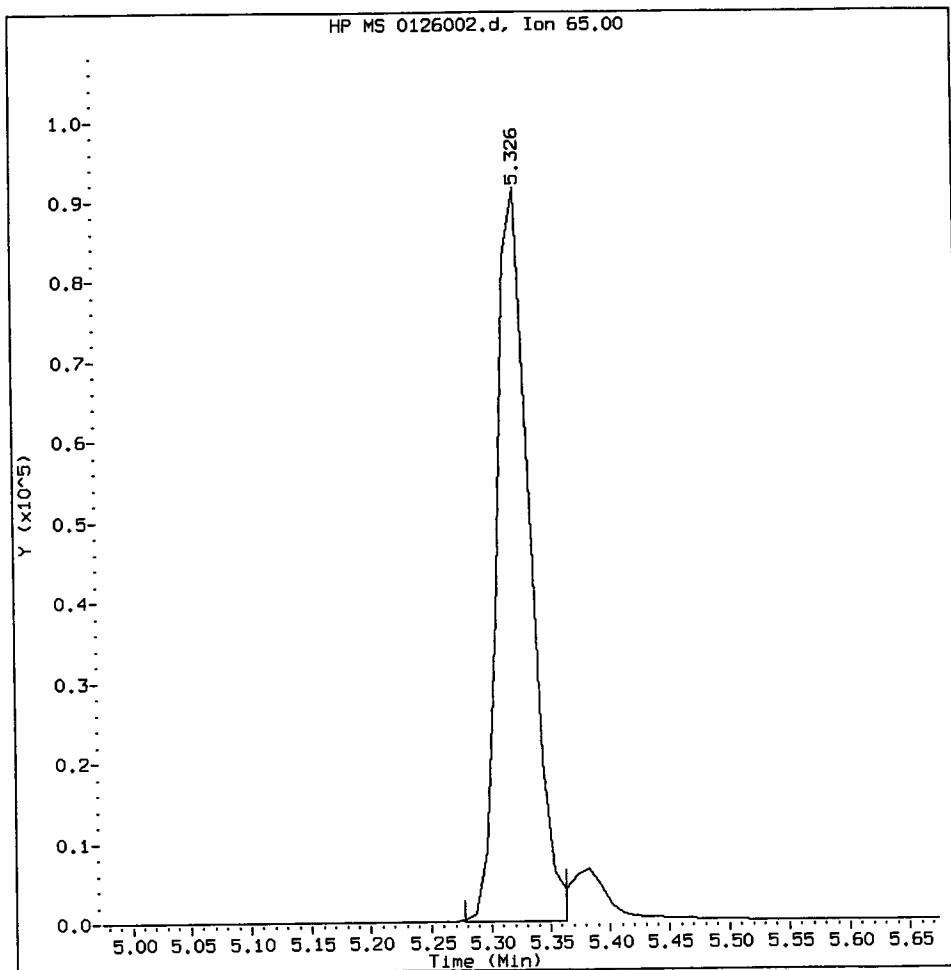
PC
1/26/11

Compound: d4-1,2-Dichloroethane
CAS Number:



CC0125, /chem1/nt7.i/26JAN2011.b/0126002.d

d4-1,2-Dichloroethane Amount: 1032.18 Area: 186444



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: PL

Date: 1/26/11

CO-ELUTION SUMMARY FOR FILE - 0126002.d

Lab ID: CC0125, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126003.d
Lab Smp Id: LCS0125 Client Smp ID: LCS0125
Inj Date : 26-JAN-2011 10:25
Operator : PC Inst ID: nt7.i
Smp Info : LCS0125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 26-Jan-2011 16:28 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62		1.552	1.550	(0.292)	271318	1038.99	1039.0
2 1,1-Dichloroethene	96		2.509	2.505	(0.472)	194962	1005.66	1005.7
175 Trans-1,2-Dichloroethene	96		3.289	3.284	(0.619)	215849	1004.77	1004.8
3 cis-1,2-dichloroethene	96		4.433	4.434	(0.834)	222258	1010.21	1010.2
6 Benzene	78		5.201	5.203	(0.905)	950333	976.863	976.86
* 4 Pentafluorobenzene	168		5.315	5.316	(1.000)	334906	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.326	(1.002)	183753	1026.58	1026.6 (M)
176 1,2-Dichloroethane	62		5.382	5.383	(1.012)	282327	1053.87	1053.9
8 Trichloroethene	130		5.710	5.709	(0.994)	214936	999.132	999.13
* 7 1,4-Difluorobenzene	114		5.744	5.743	(1.000)	520157	1000.00	
\$ 9 d8-Toluene	98		6.902	6.902	(1.201)	587427	1007.44	1007.4
10 Tetrachloroethene	166		7.259	7.259	(1.264)	192123	1028.15	1028.2
11 1,1,2,2-Tetrachloroethane	83		9.446	9.446	(1.644)	138575	1087.75	1087.8

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126003.d
Lab Smp Id: LCS0125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: LCS0125
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	334906	0.18
7 1,4-Difluorobenze	528497	264248	1056994	520157	-1.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	0.02

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: 26JAN2011
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0125 Client Smp ID: LCS0125
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1039.0	103.90	76-120
176 1,2-Dichloroethane	1000.0	1053.9	105.39	80-128
175 Trans-1,2-Dichloro	1000.0	1004.8	100.48	80-120
2 1,1-Dichloroethene	1000.0	1005.7	100.57	80-120
3 cis-1,2-dichloroet	1000.0	1010.2	101.02	80-120
6 Benzene	1000.0	976.86	97.69	80-120
8 Trichloroethene	1000.0	999.13	99.91	80-120
10 Tetrachloroethene	1000.0	1028.2	102.82	80-122
11 1,1,2,2-Tetrachlor	1000.0	1087.8	108.78	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1026.6	102.66	80-126
\$ 9 d8-Toluene	1000.0	1007.4	100.74	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126003.d

Date: 26-JAN-2011 10:25

Client ID: LCS0125

Sample Info: LCS0125,10,10,0

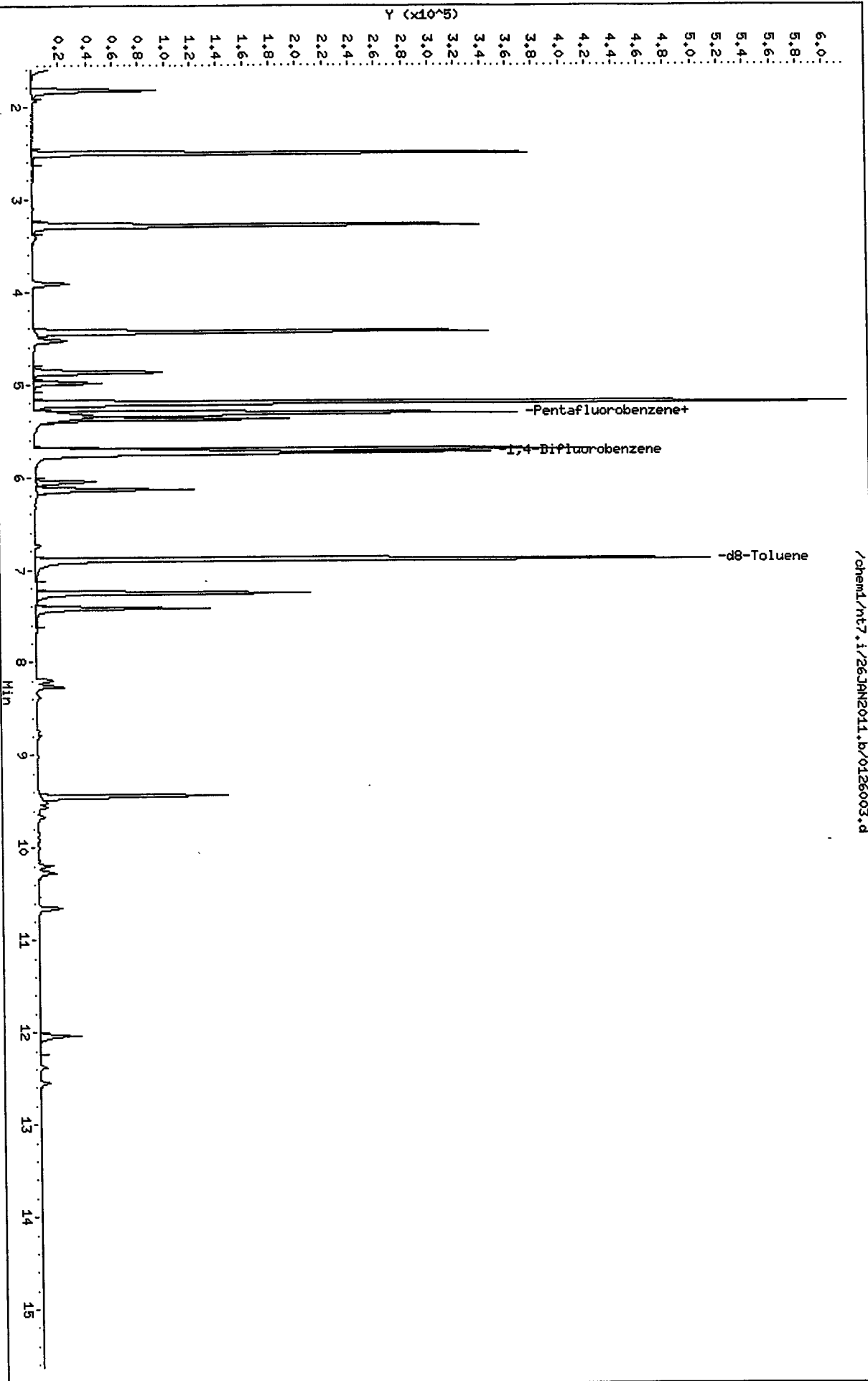
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/26JAN2011.b/0126003.d

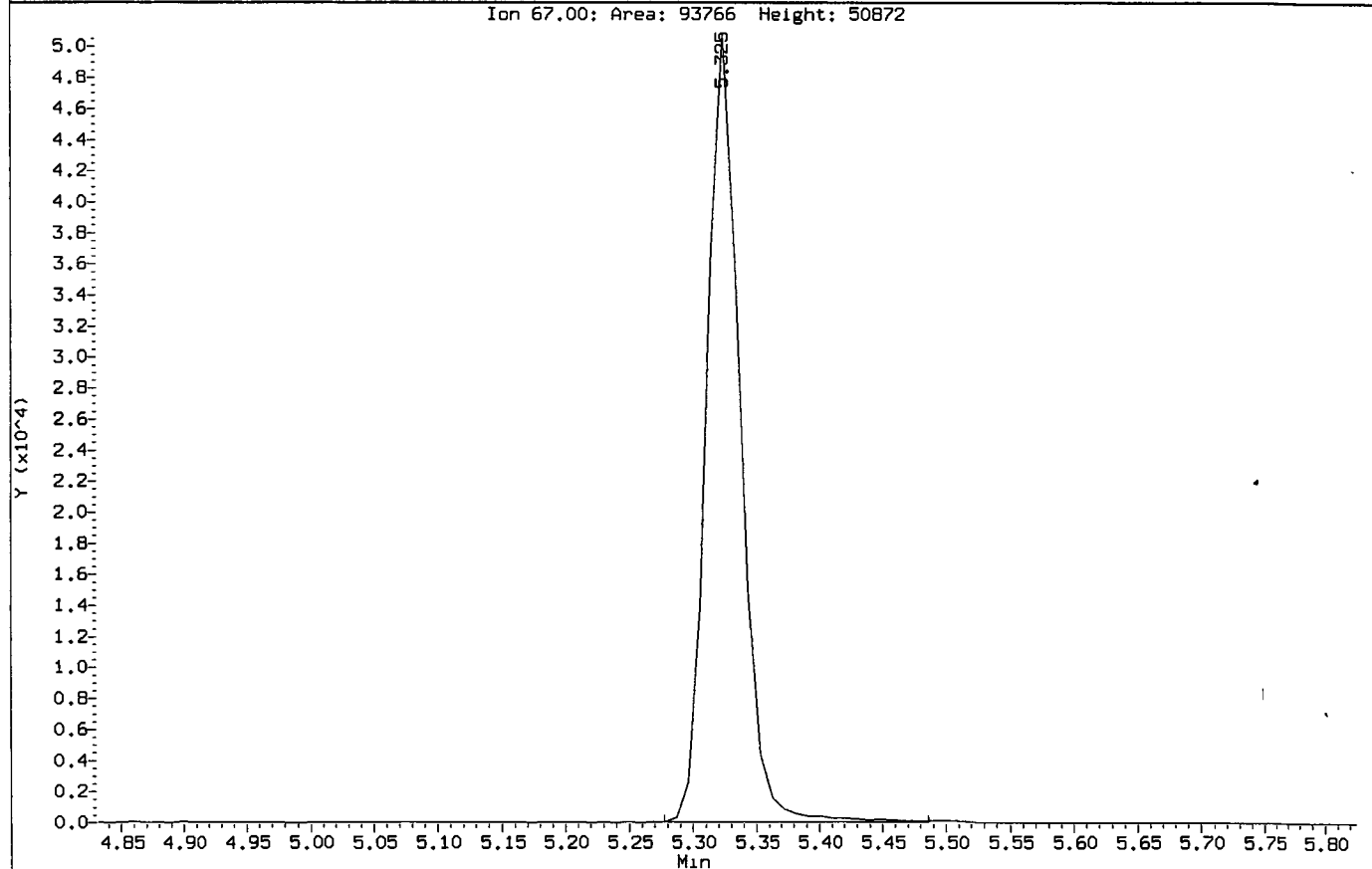
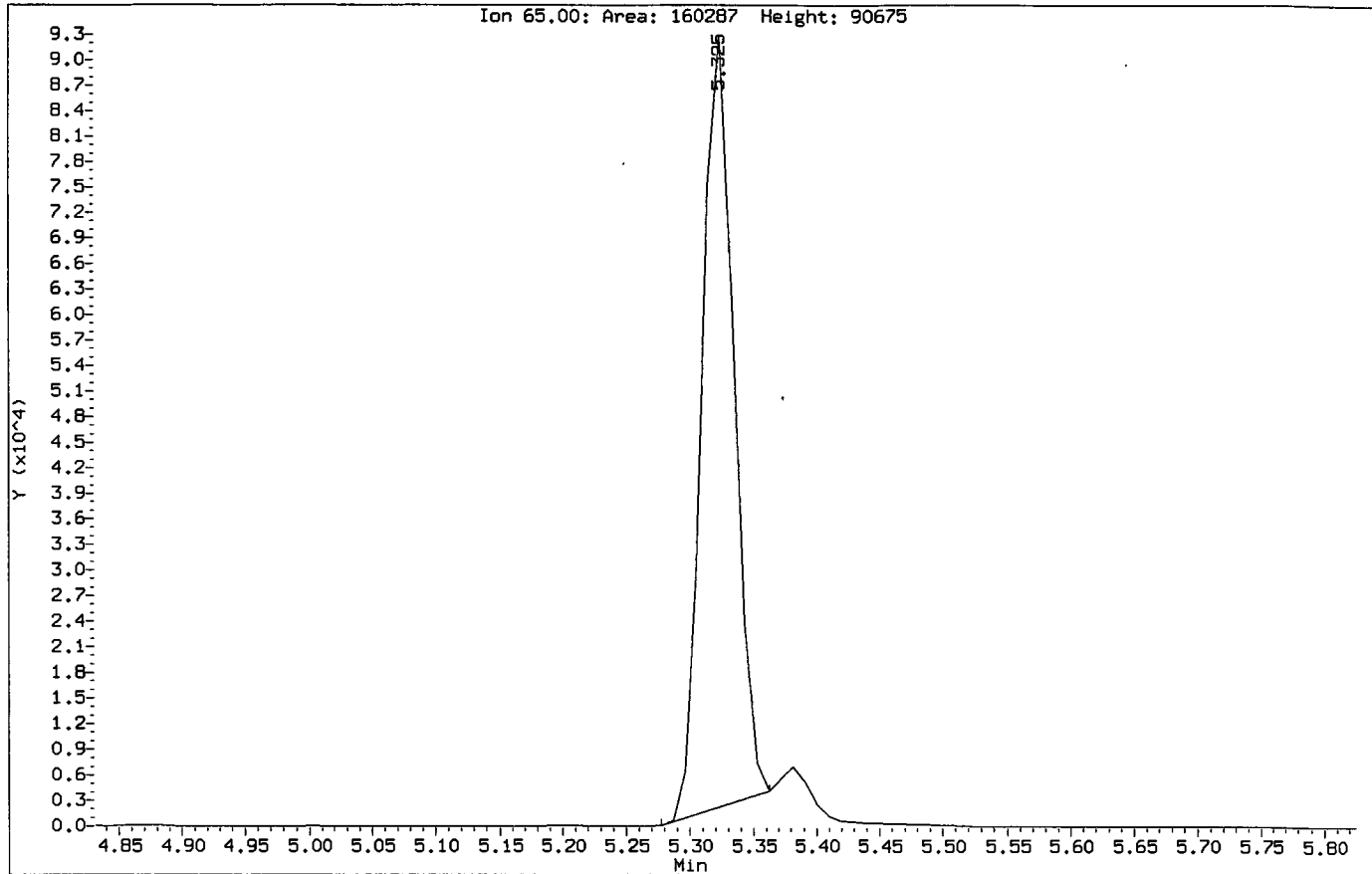


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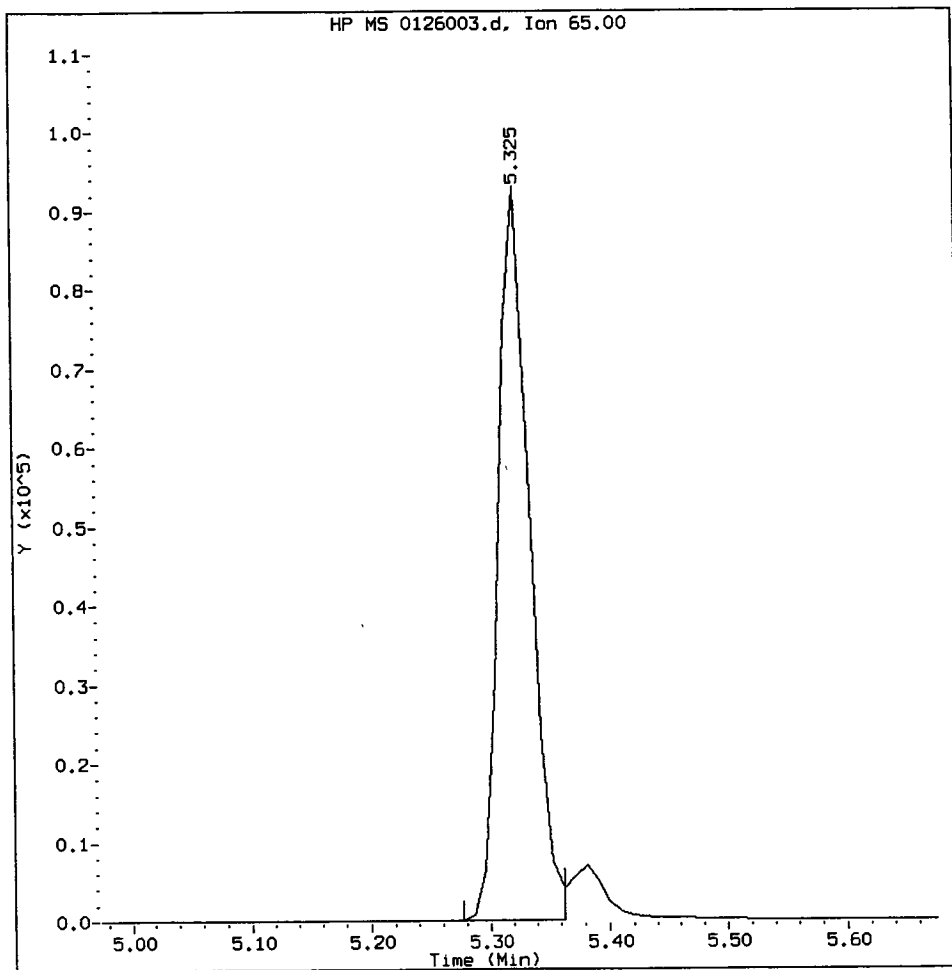
Data File: /chem1/nt7.1/26JAN2011.b/0126003.d
Injection Date: 26-JAN-2011 10:25
Instrument: nt7.1
Client Sample ID: LCS0125

*PC
1/26/11*

Compound: d4-1,2-Dichloroethane
CAS Number:



d4-1,2-Dichloroethane Amount: 1026.58 Area: 183753



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: PL

Date: 1/28/11

CO-ELUTION SUMMARY FOR FILE - 0126003.d

Lab ID: LCS0125, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PG
1/26/11

Data File: /chem1/nt7.i/26JAN2011.b/0126004.d
Report Date: 26-Jan-2011 16:30

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126004.d
Lab Smp Id: LCS0125 Client Smp ID: LCS0125
Inj Date : 26-JAN-2011 10:49
Operator : PC Inst ID: nt7.i
Smp Info : LCS0125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 26-Jan-2011 16:28 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.563	1.550	(0.294)	229080	895.019	895.02
2 1,1-Dichloroethene	96	2.510	2.505	(0.472)	174506	918.381	918.38
175 Trans-1,2-Dichloroethene	96	3.290	3.284	(0.619)	194618	924.289	924.29
3 cis-1,2-dichloroethene	96	4.439	4.434	(0.835)	201408	933.985	933.98
6 Benzene	78	5.210	5.203	(0.905)	856355	902.085	902.09
* 4 Pentafluorobenzene	168	5.314	5.316	(1.000)	328256	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.326	(1.002)	178184	1015.63	1015.6 (M)
176 1,2-Dichloroethane	62	5.381	5.383	(1.012)	256294	976.073	976.07
8 Trichloroethene	130	5.709	5.709	(0.992)	194884	928.380	928.38
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	507573	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	580836	1020.83	1020.8
10 Tetrachloroethene	166	7.259	7.259	(1.261)	172886	948.143	948.14
11 1,1,2,2-Tetrachloroethane	83	9.445	9.446	(1.641)	126425	1016.98	1017.0

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126004.d
Lab Smp Id: LCS0125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: LCS0125
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	328256	-1.81
7 1,4-Difluorobenze	528497	264248	1056994	507573	-3.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.20

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: 26JAN2011
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0125 Client Smp ID: LCS0125
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-

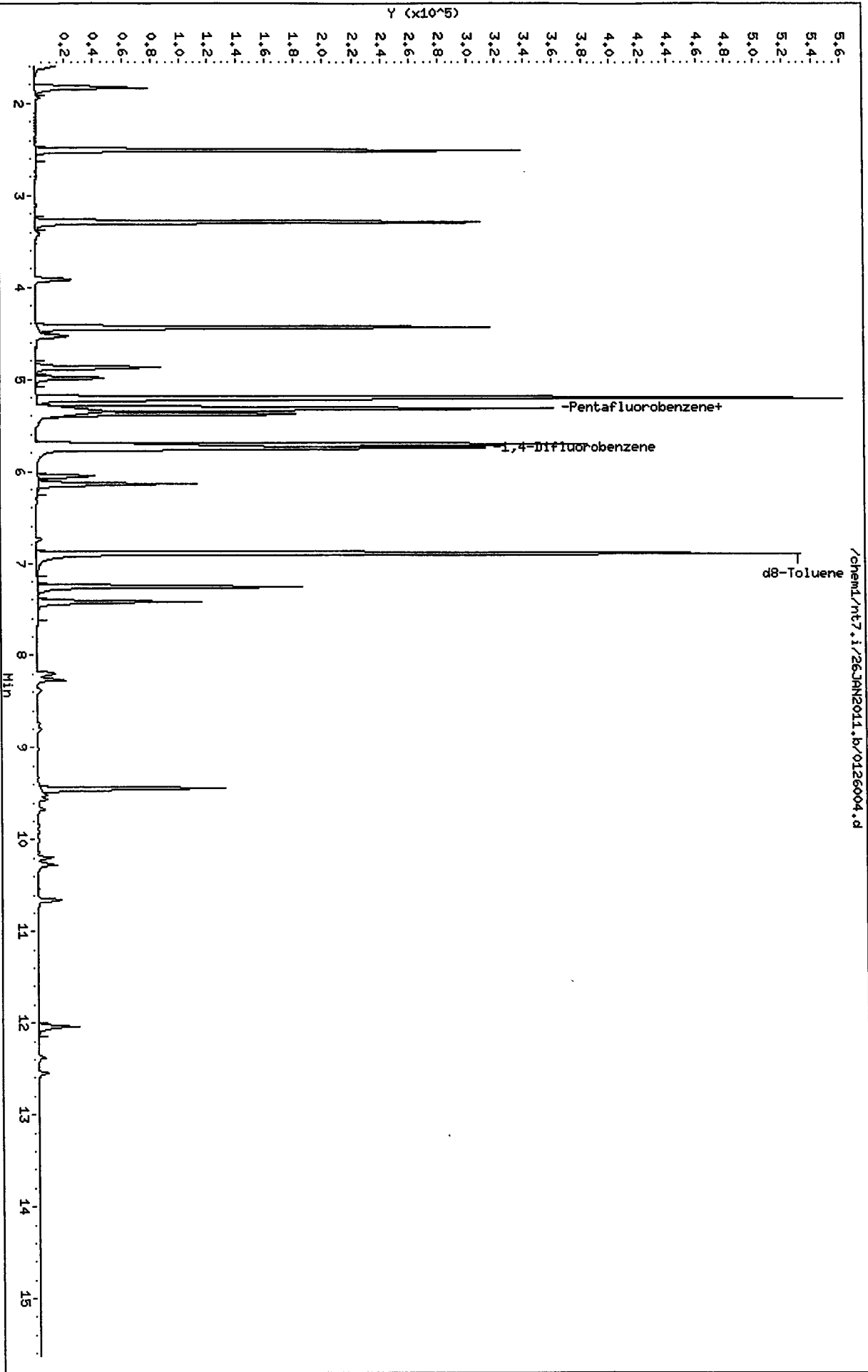
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	895.02	89.50	76-120
176 1,2-Dichloroethane	1000.0	976.07	97.61	80-128
175 Trans-1,2-Dichloro	1000.0	924.29	92.43	80-120
2 1,1-Dichloroethene	1000.0	918.38	91.84	80-120
3 cis-1,2-dichloroet	1000.0	933.98	93.40	80-120
6 Benzene	1000.0	902.09	90.21	80-120
8 Trichloroethene	1000.0	928.38	92.84	80-120
10 Tetrachloroethene	1000.0	948.14	94.81	80-122
11 1,1,2,2-Tetrachlor	1000.0	1017.0	101.70	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1015.6	101.56	80-126
\$ 9 d8-Toluene	1000.0	1020.8	102.08	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126004.d
Date : 26-JAN-2011 10:49
Client ID: LCS0125
Sample Info: LCS0125,10,10,0

Column phase: RTXVHS

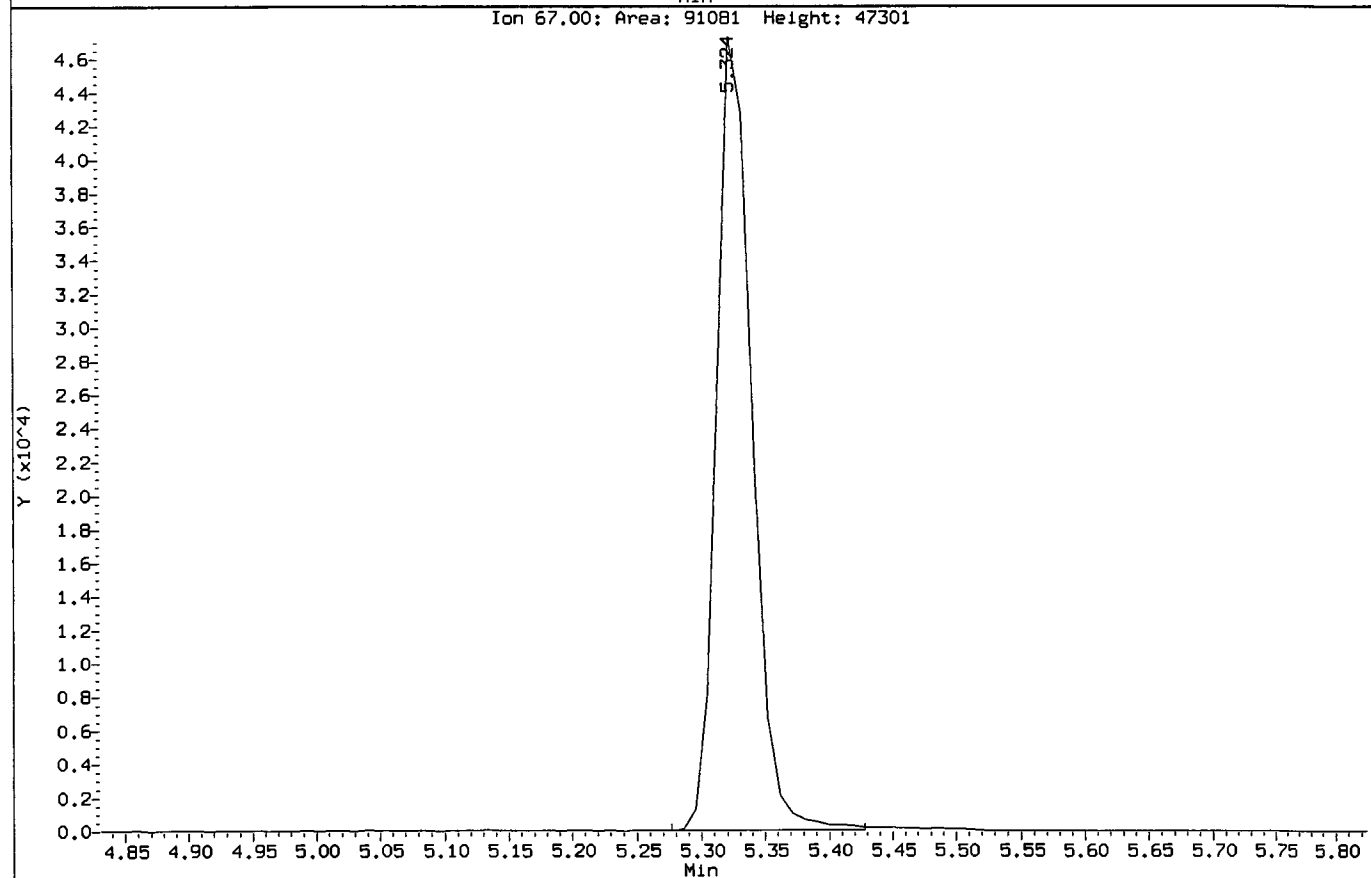
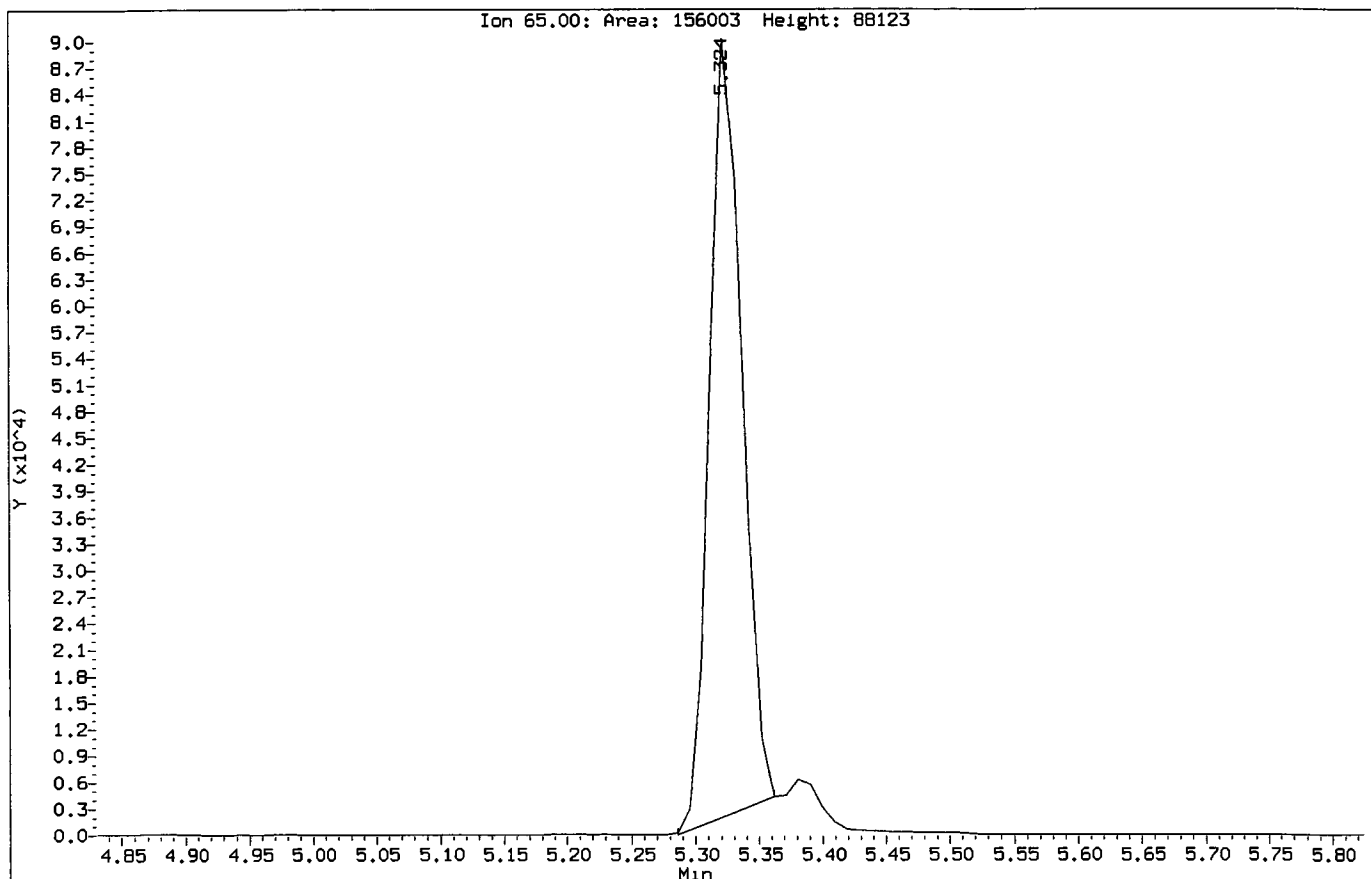
Instrument: nt7.i
Operator: PC
Column diameter: 0.18



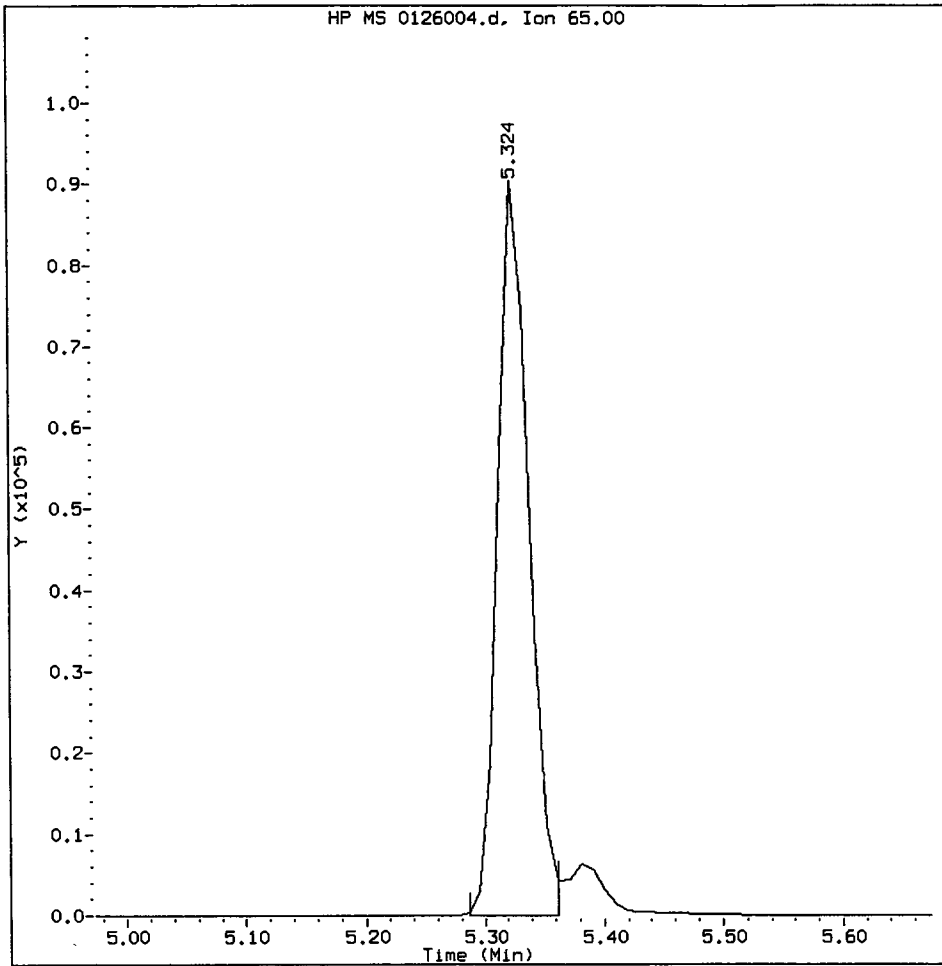
Data File: /chem1/nt7.1/26JAN2011.b/0126004.d
Injection Date: 26-JAN-2011 10:49
Instrument: nt7.1
Client Sample ID: LCS0125

PG
1/25/11

Compound: d4-1,2-Dichloroethane
CAS Number:



d4-1,2-Dichloroethane Amount: 1015.63 Area: 178184



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: PL

Date: 1/26/11

CO-ELUTION SUMMARY FOR FILE - 0126004.d

Lab ID: LCS0125, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

1/6
1/26/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126005.d
Lab Smp Id: MB0125 Client Smp ID: MB0125
Inj Date : 26-JAN-2011 11:15
Operator : PC Inst ID: nt7.i
Smp Info : MB0125,10,10,0
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 26-Jan-2011 16:31 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168		5.316	5.316	(1.000)	331387	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.326	(1.002)	173902	981.856	981.86
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114		5.756	5.743	(1.000)	507370	1000.00	
\$ 9 d8-Toluene	98		6.903	6.902	(1.199)	572795	1007.10	1007.1
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126005.d
Lab Smp Id: MB0125
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MB0125
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	331387	-0.87
7 1,4-Difluorobenze	528497	264248	1056994	507370	-4.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.23

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: 26JAN2011
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0125 Client Smp ID: MB0125
Level: LOW Operator: PC
Data Type: MS DATA SampleType: BLANK
SpikeList File: special.spk Quant Type: ISTD
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	981.86	98.19	80-126
\$ 9 d8-Toluene	1000.0	1007.1	100.71	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126005.d

Date: 26-JAN-2011 14:15

Client ID: HB0125

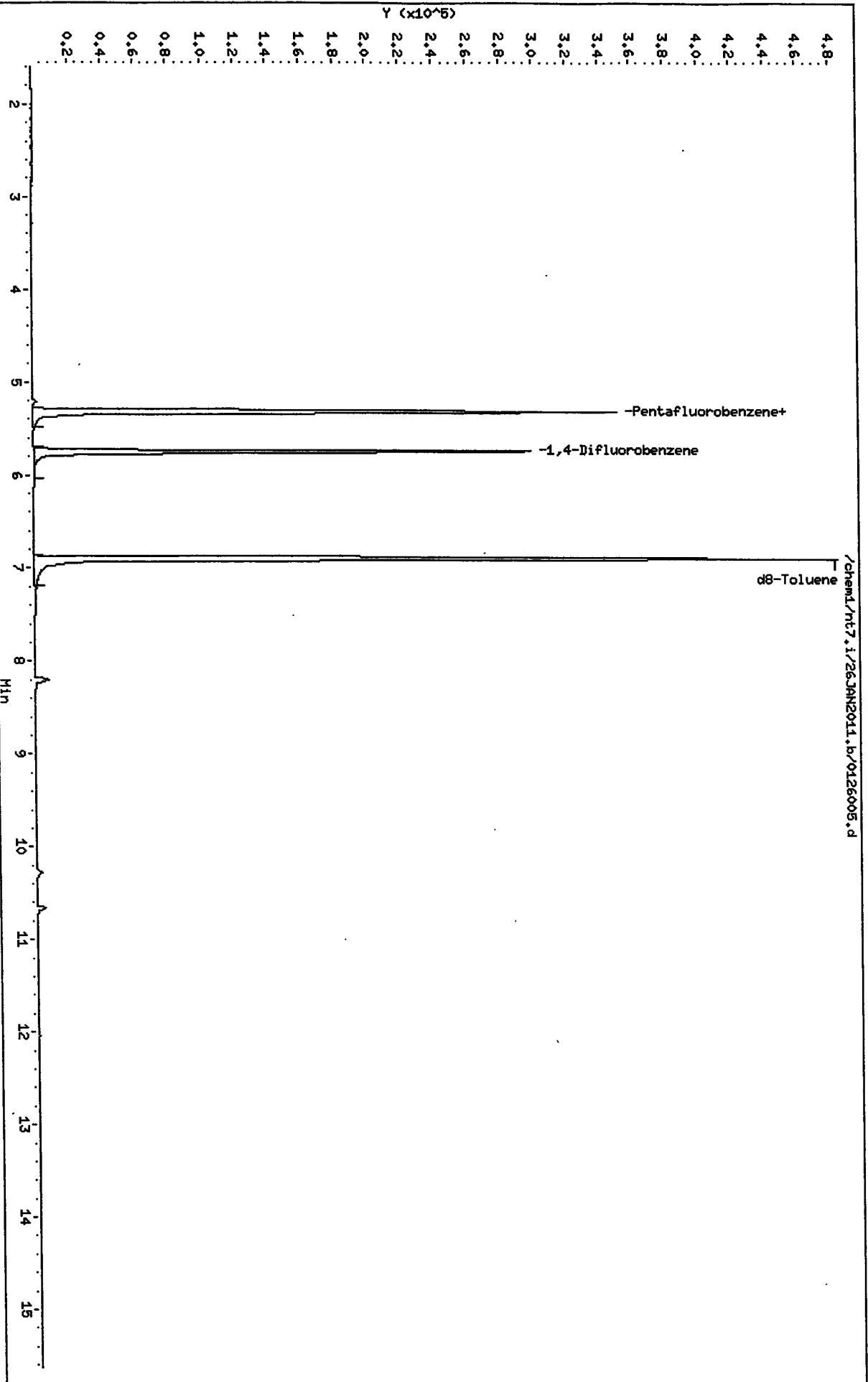
Sample Info: HB0125,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0126005.d

Lab ID: MB0125, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126006.d
Lab Smp Id: SF76I Client Smp ID: TB-012111
Inj Date : 26-JAN-2011 11:50
Operator : PC Inst ID: nt7.i
Smp Info : SF76I,10,10,0
Misc Info : 11-1426
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	333462	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.326	(1.002)	172306	966.791	966.79	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	510332	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	566853	990.868	990.87	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126006.d
Lab Smp Id: SF76I
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1426

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: TB-012111
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	333462	-0.25
7 1,4-Difluorobenze	528497	264248	1056994	510332	-3.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.20

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: SF76I
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1426

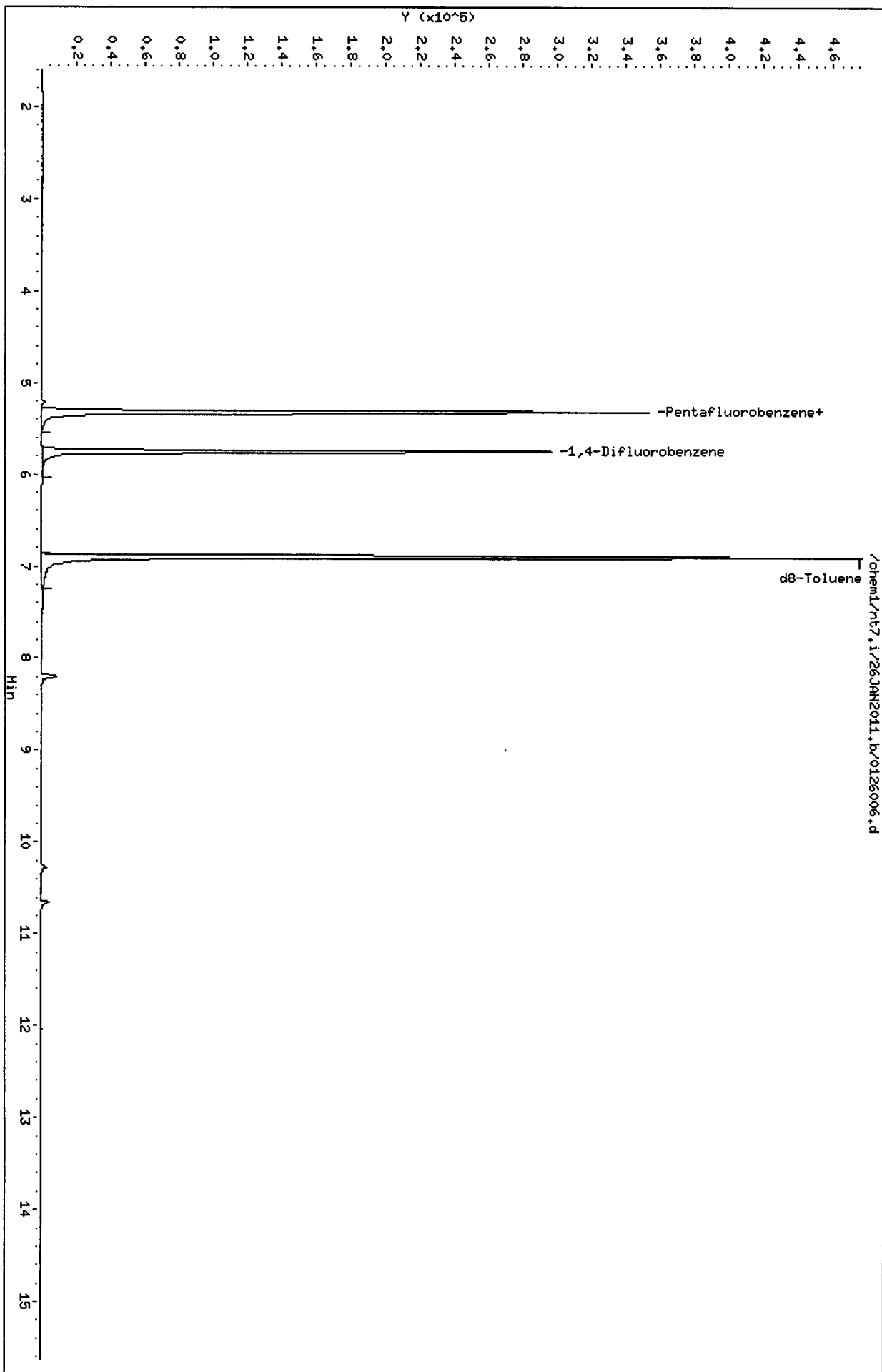
Client SDG: SF76
Fraction: VOA
Client Smp ID: TB-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	966.79	96.68	80-126
\$ 9 d8-Toluene	1000.0	990.87	99.09	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126006.d
Date : 26-JAN-2011 11:50
Client ID: TB-012111
Sample Info: SF761,10,10.0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0126006.d

Lab ID: SF76I, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126009.d
Lab Smp Id: SF50E Client Smp ID: MW17-012011
Inj Date : 26-JAN-2011 13:07
Operator : PC Inst ID: nt7.i
Smp Info : SF50E,10,10,0
Misc Info : 11-1202
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)	
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.317	5.316	(1.000)	338088	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.326	(1.002)	174768	967.188	967.19	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	502715	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	564143	1001.07	1001.1	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126009.d
Lab Smp Id: SF50E
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1202

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MW17-012011
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	338088	1.13
7 1,4-Difluorobenze	528497	264248	1056994	502715	-4.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.20

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.

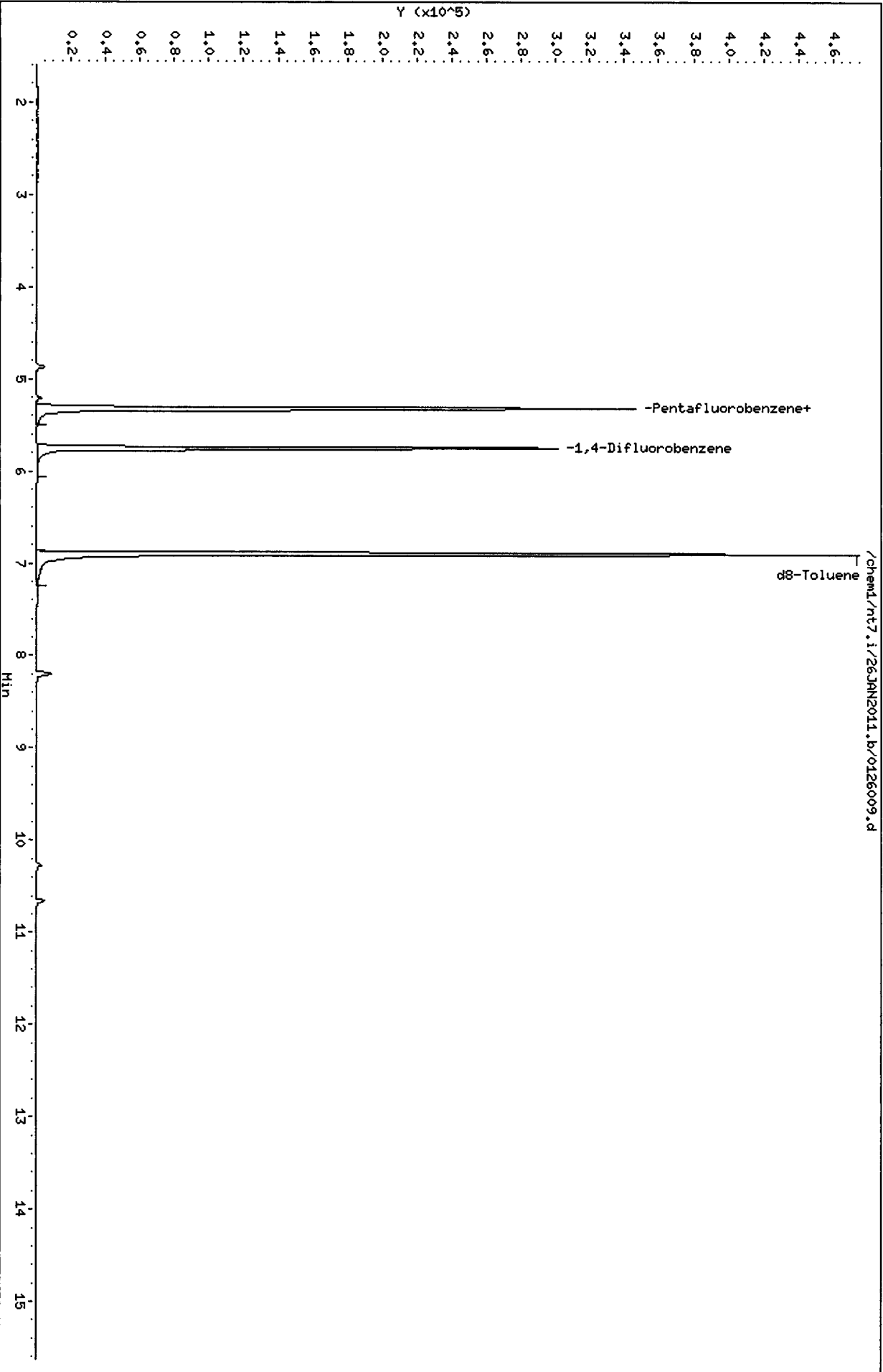
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: SF50E
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1202

Client SDG: SF50
Fraction: VOA
Client Smp ID: MW17-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	967.19	96.72	80-126
\$ 9 d8-Toluene	1000.0	1001.1	100.11	80-120



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CO-ELUTION SUMMARY FOR FILE - 0126009.d

Lab ID: SF50E, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126010.d
 Lab Smp Id: SF50F Client Smp ID: MW03-012011
 Inj Date : 26-JAN-2011 13:32
 Operator : PC Inst ID: nt7.i
 Smp Info : SF50F,10,10,0
 Misc Info : 11-1203
 Comment :
 Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
 Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168		5.315	5.316	(1.000)	325971	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.324	5.326	(1.002)	173481	995.753	995.75
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114		5.755	5.743	(1.000)	501294	1000.00	
\$ 9 d8-Toluene	98		6.902	6.902	(1.199)	563340	1002.48	1002.5
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0126010.d
 Lab Smp Id: SF50F
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1203

Calibration Date: 26-JAN-2011
 Calibration Time: 09:58
 Client Smp ID: MW03-012011
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	325971	-2.49
7 1,4-Difluorobenze	528497	264248	1056994	501294	-5.15

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.21

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: SF50F
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1203

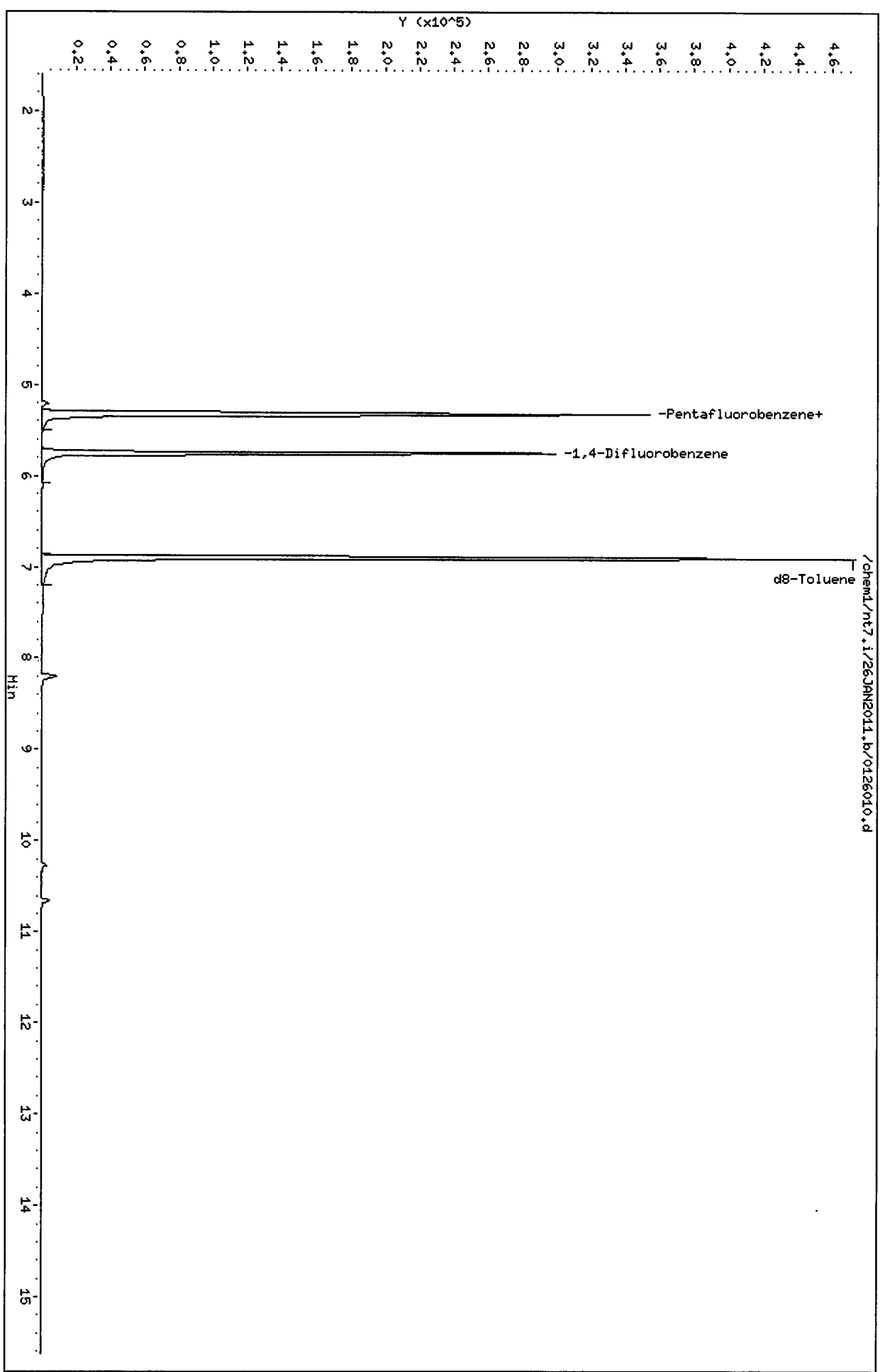
Client SDG: SF50
Fraction: VOA
Client Smp ID: MW03-012011
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	995.75	99.58	80-126
\$ 9 d8-Toluene	1000.0	1002.5	100.25	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126010.d
Date : 26-JAN-2011 13:32
Client ID: HM03-012011
Sample Info: SF50F,10,10,0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



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CO-ELUTION SUMMARY FOR FILE - 0126010.d

Lab ID: SF50F, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

AC
1/27/11

Data File: /chem1/nt7.i/26JAN2011.b/0126011.d
Report Date: 27-Jan-2011 16:12

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126011.d
Lab Smp Id: SF76A Client Smp ID: MW-15-012111
Inj Date : 26-JAN-2011 13:58
Operator : PC Inst ID: nt7.i
Smp Info : SF76A,10,10,0
Misc Info : 11-1418
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	324490	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.326	(1.002)	173724	1001.70	1001.7
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.756	5.743	(1.000)	501355	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	556089	989.457	989.46
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

SF26 : 00541

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0126011.d
 Lab Smp Id: SF76A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1418

Calibration Date: 26-JAN-2011
 Calibration Time: 09:58
 Client Smp ID: MW-15-012111
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	324490	-2.93
7 1,4-Difluorobenze	528497	264248	1056994	501355	-5.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.23

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: SF76A
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1418

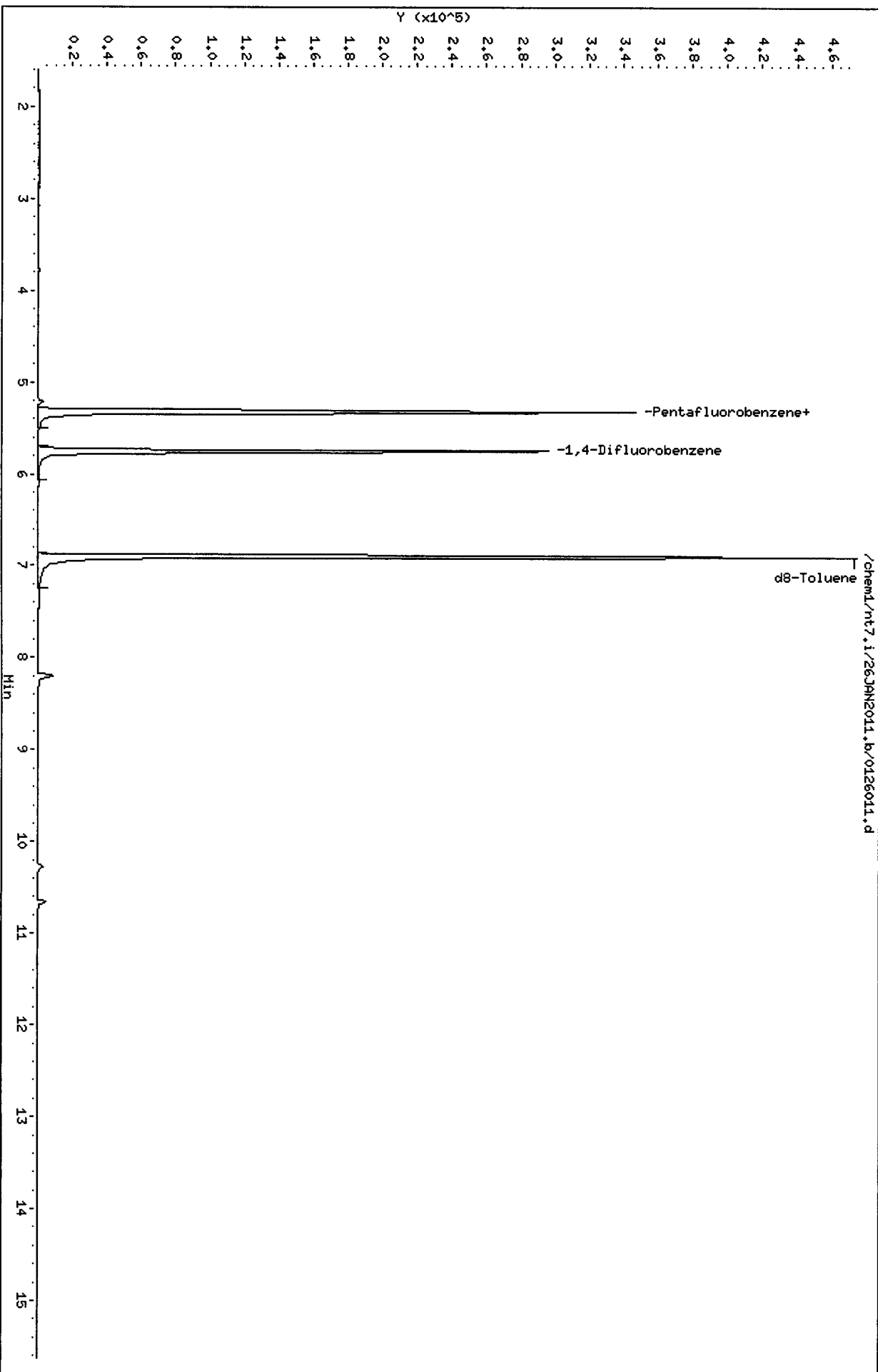
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-15-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1001.7	100.17	80-126
\$ 9 d8-Toluene	1000.0	989.46	98.95	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126011.d
Date : 26-JAN-2011 13:58
Client ID: HM-15-012111
Sample Info: SF76A,10,10,0

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



11:55:55 : 01 JAN 2011

CO-ELUTION SUMMARY FOR FILE - 0126011.d

Lab ID: SF76A, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126012.d
 Lab Smp Id: SF76B Client Smp ID: MW-05-012111
 Inj Date : 26-JAN-2011 14:24
 Operator : PC Inst ID: nt7.i
 Smp Info : SF76B,10,10,0
 Misc Info : 11-1419
 Comment :
 Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
 Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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					
			ON-COLUMN	FINAL	RT	EXP RT	REL RT	RESPONSE
	MASS		(ng/L)	(ug/L)				
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168		5.316	5.316	(1.000)	335105	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.325	5.326	(1.002)	171493	957.511	957.51
176 1,2-Dichloroethane	62		5.382	5.383	(1.012)	4262	15.8997	15.900
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114		5.754	5.743	(1.000)	497970	1000.00	
\$ 9 d8-Toluene	98		6.903	6.902	(1.200)	555673	995.437	995.44
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126012.d
Lab Smp Id: SF76B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1419

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MW-05-012111
Level: LOW
Sample Type: Groundwater

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	335105	0.24
7 1,4-Difluorobenze	528497	264248	1056994	497970	-5.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.19

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: SF76B
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1419

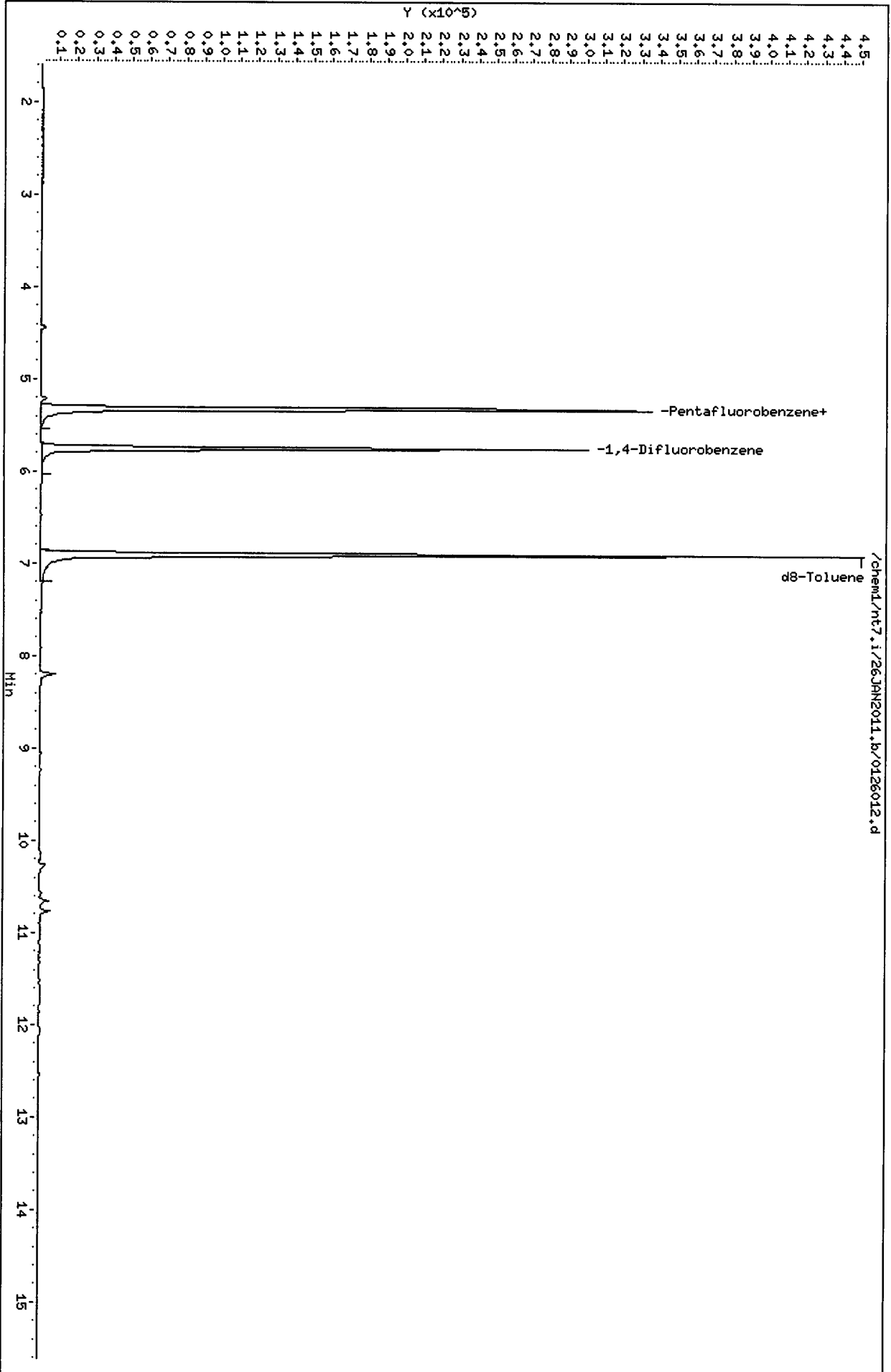
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-05-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	957.51	95.75	80-126
\$ 9 d8-Toluene	1000.0	995.44	99.54	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126012.d
Date : 26-JAN-2011 14:24
Client ID: MM-05-012111
Sample Info: SF768,10,10,0

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



01 10 09 15 20

Date : 26-JAN-2011 14:24

Client ID: MW-05-012111

Instrument: nt7.i

Sample Info: SF76B,10,10,0

Operator: PC

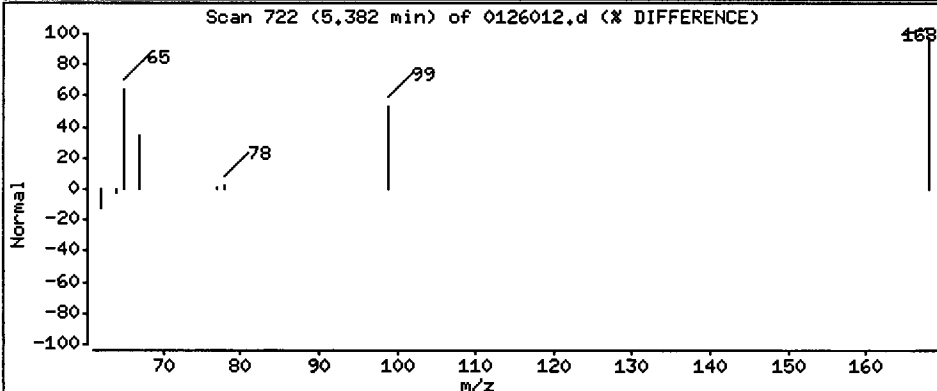
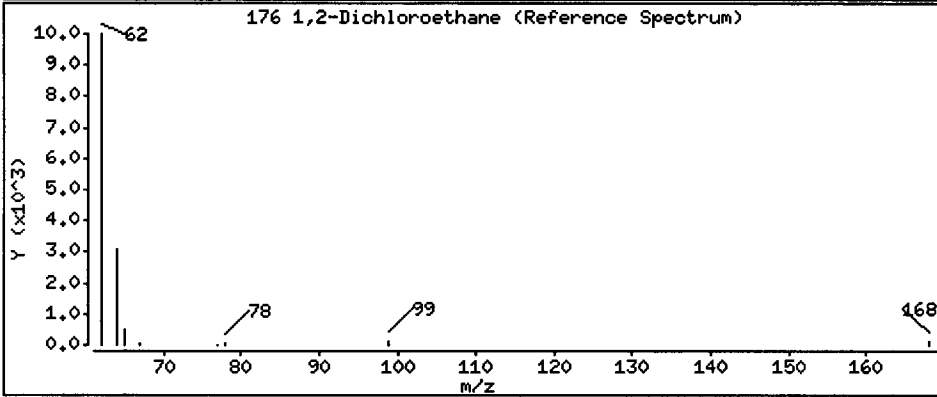
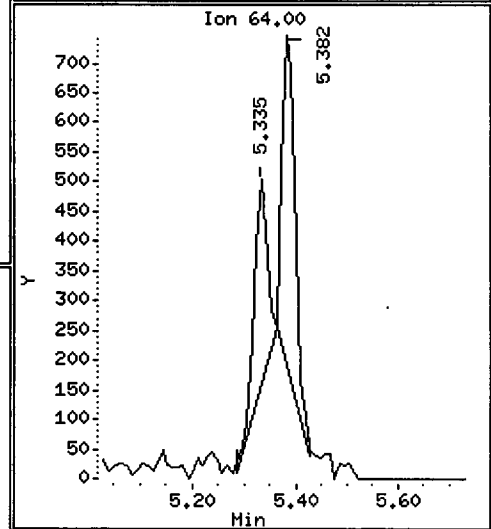
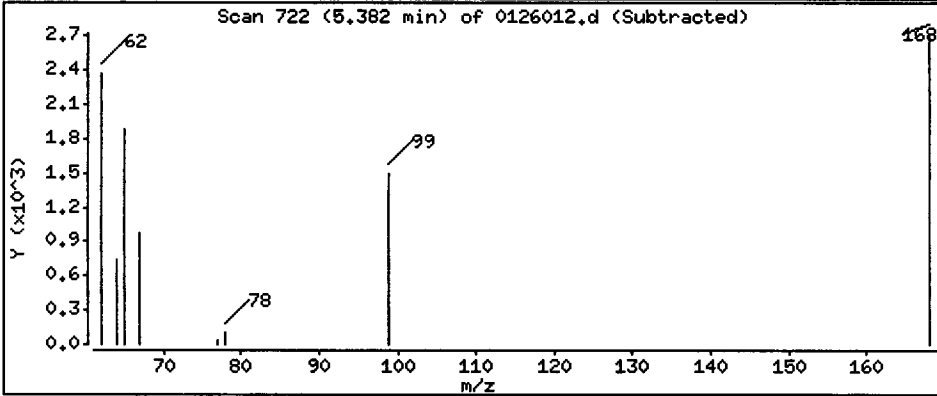
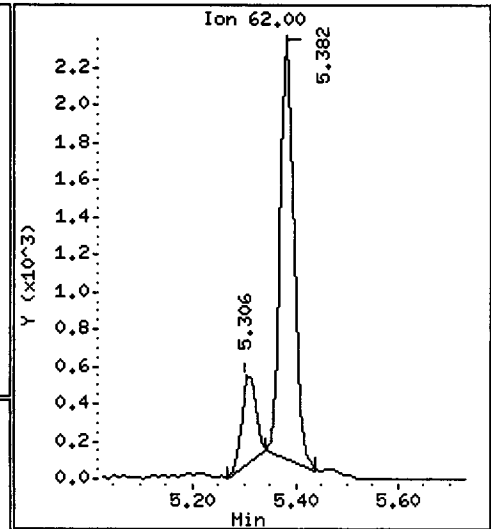
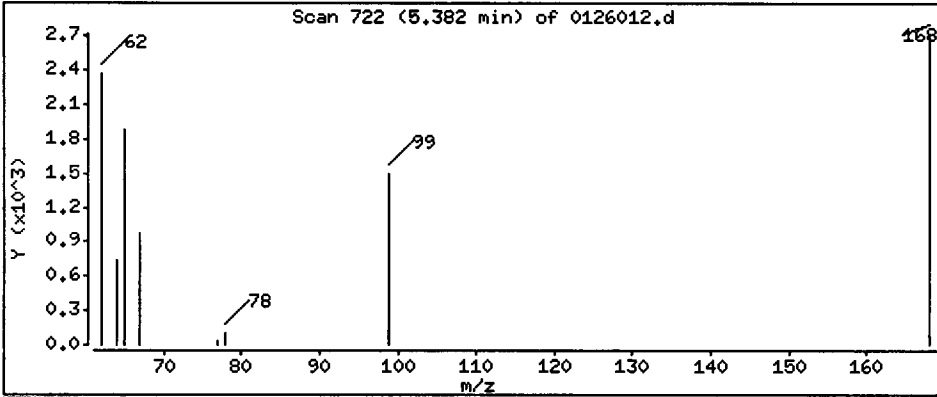
Column phase: RTXVMS

Column diameter: 0.18

176 1,2-Dichloroethane

Concentration: 15,900 ug/L

LML



CO-ELUTION SUMMARY FOR FILE - 0126012.d

Lab ID: SF76B, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

MC
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126013.d
Lab Smp Id: SF76C Client Smp ID: MW-16-012111
Inj Date : 26-JAN-2011 14:49
Operator : PC Inst ID: nt7.i
Smp Info : SF76C,10,10,0
Misc Info : 11-1420
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	326191	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.326	(1.002)	184798	1060.00	1060.0	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.744	5.743	(1.000)	504266	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	565256	999.962	999.96	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126013.d
Lab Smp Id: SF76C
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1420

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MW-16-012111
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	326191	-2.42
7 1,4-Difluorobenze	528497	264248	1056994	504266	-4.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.31	-0.03
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	0.01

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: SF76C
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1420

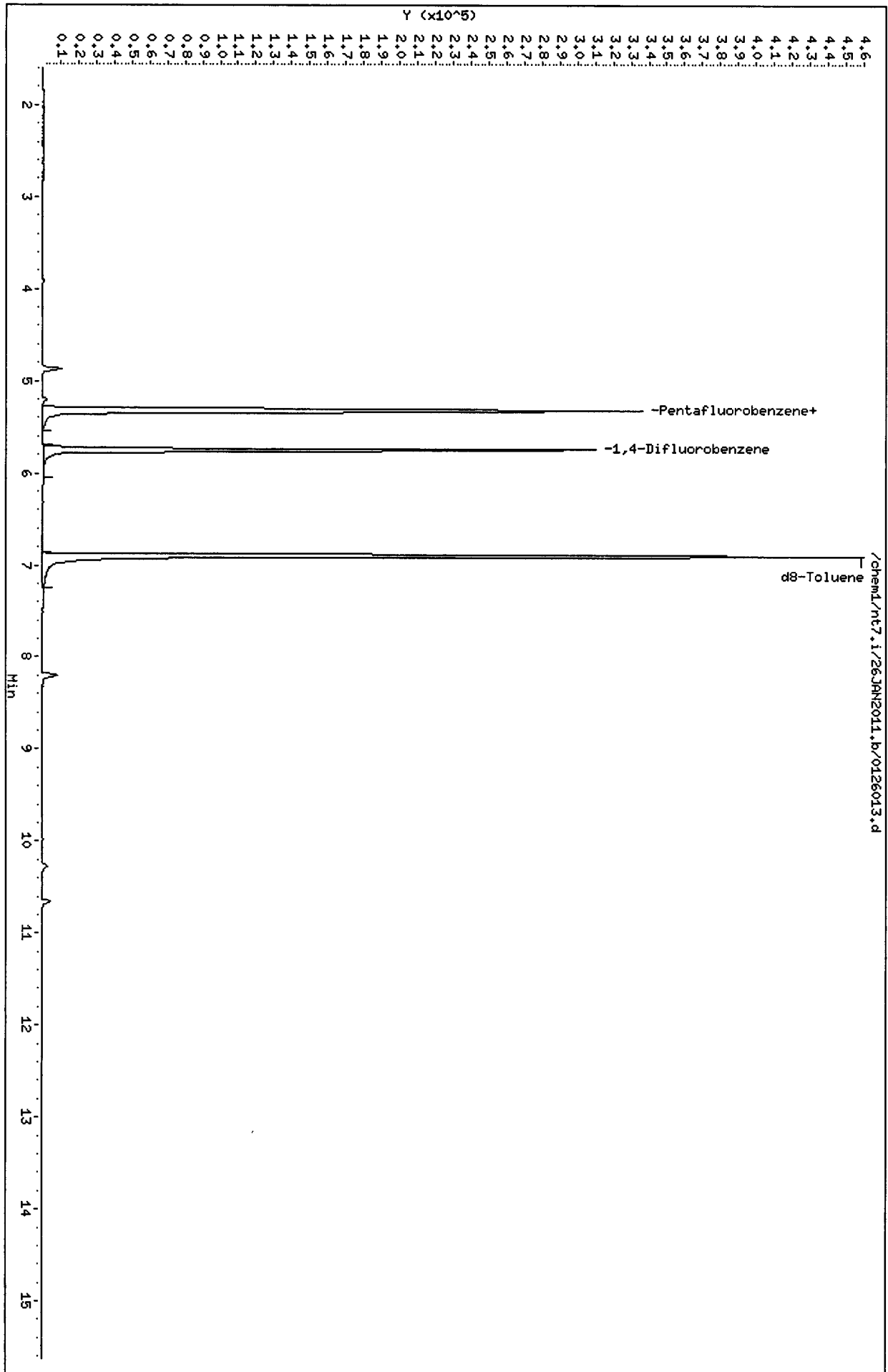
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-16-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1060.0	106.00	80-126
\$ 9 d8-Toluene	1000.0	999.96	100.00	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126013.d
Date : 26-JAN-2011 14:49
Client ID: MM-16-012111
Sample Info: SF76C,10,10,0

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0126013.d

Lab ID: SF76C, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

SF26 : 00556

PC
4/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126014.d
Lab Smp Id: SF76D Client Smp ID: MW-02-012111
Inj Date : 26-JAN-2011 15:15
Operator : PC Inst ID: nt7.i
Smp Info : SF76D,10,10,0
Misc Info : 11-1421
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	340001	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.326	(1.002)	172889	951.406	951.41	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.756	5.743	(1.000)	499176	1000.00		
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	556424	994.375	994.38	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0126014.d
 Lab Smp Id: SF76D
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1421

Calibration Date: 26-JAN-2011
 Calibration Time: 09:58
 Client Smp ID: MW-02-012111
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	340001	1.71
7 1,4-Difluorobenze	528497	264248	1056994	499176	-5.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.23

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: SF76D
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1421

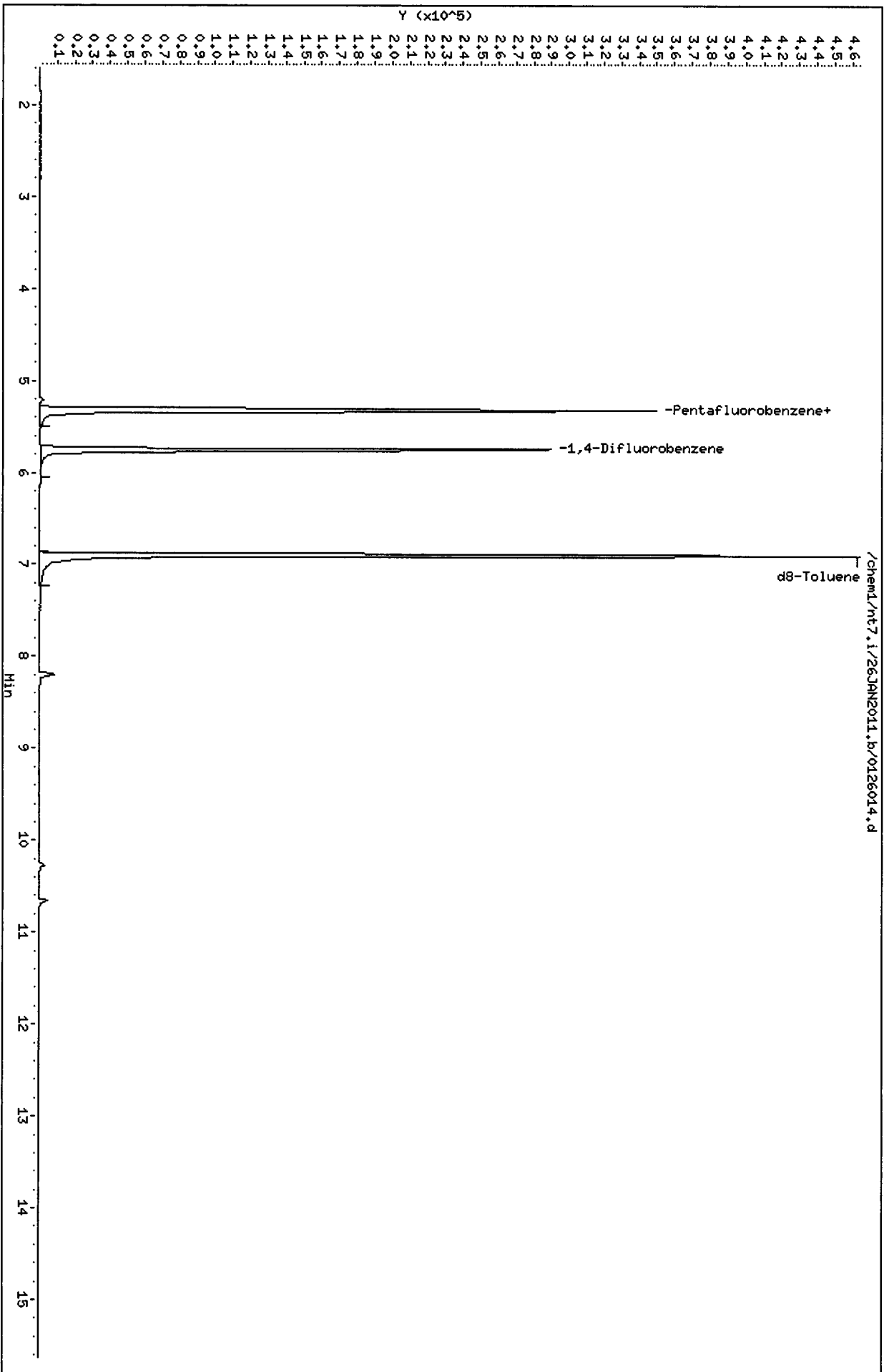
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-02-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	951.41	95.14	80-126
\$ 9 d8-Toluene	1000.0	994.38	99.44	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126014.d
Date : 26-JAN-2011 15:15
Client ID: MW-02-012111
Sample Info: SF76D,10,10,0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0126014.d

Lab ID: SF76D, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126015.d
Lab Smp Id: SF76E Client Smp ID: MW-09-012111
Inj Date : 26-JAN-2011 15:40
Operator : PC Inst ID: nt7.i
Smp Info : SF76E,10,10,0
Misc Info : 11-1422
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62							
2 1,1-Dichloroethene	96							
175 Trans-1,2-Dichloroethene	96							
3 cis-1,2-dichloroethene	96							
6 Benzene	78							
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	333391	1000.00		
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.326	(1.002)	173492	973.653	973.65	
176 1,2-Dichloroethane	62							
8 Trichloroethene	130							
* 7 1,4-Difluorobenzene	114	5.754	5.743	(1.000)	498239	1000.00		
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	552407	989.053	989.05	
10 Tetrachloroethene	166							
11 1,1,2,2-Tetrachloroethane	83							

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126015.d
Lab Smp Id: SF76E
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1422

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MW-09-012111
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	333391	-0.27
7 1,4-Difluorobenze	528497	264248	1056994	498239	-5.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.19

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: SF76E
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1422

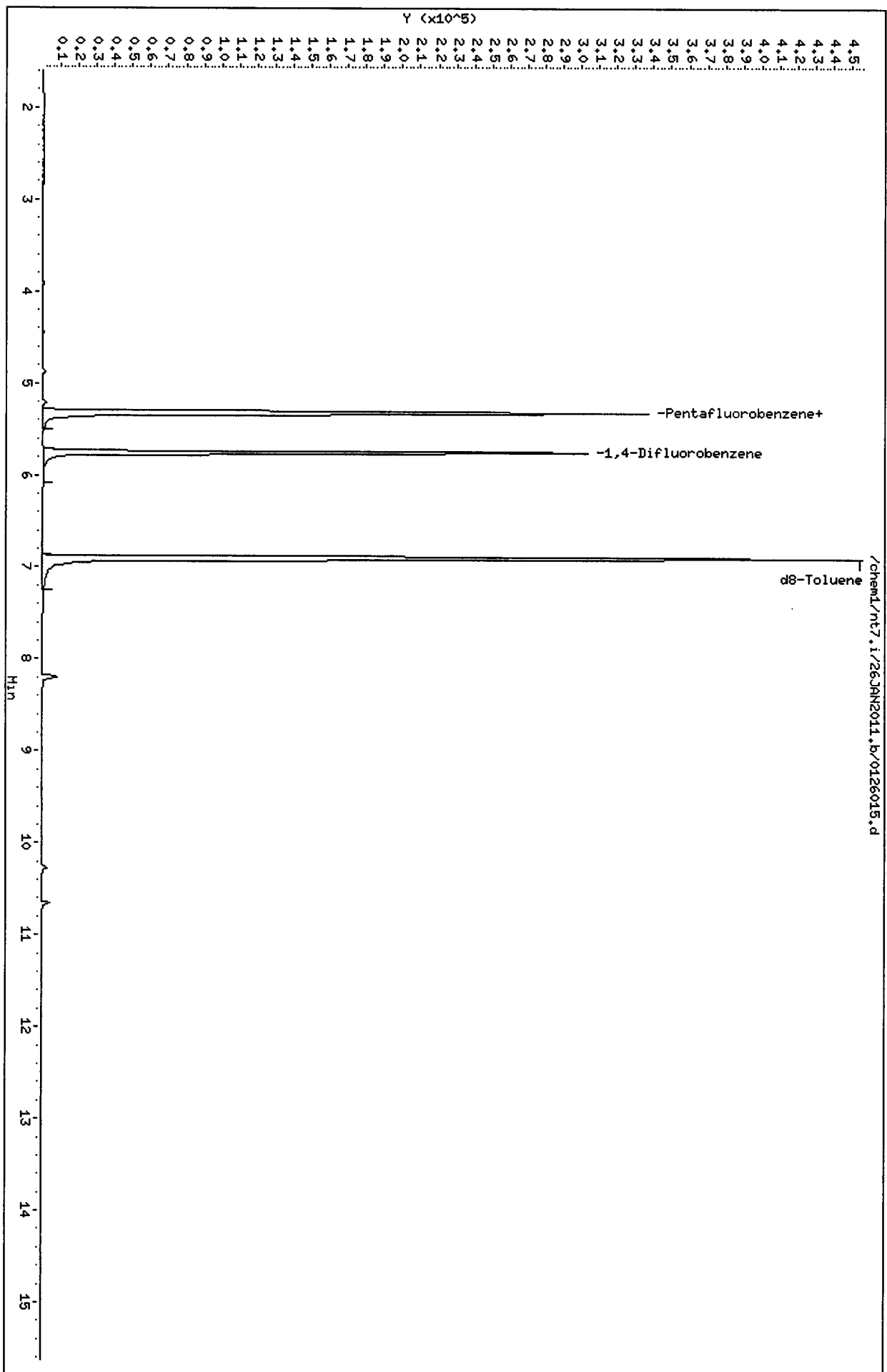
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-09-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	973.65	97.37	80-126
\$ 9 d8-Toluene	1000.0	989.05	98.91	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126015.d
Date : 26-JAN-2011 15:40
Client ID: MM-09-012111
Sample Info: SF76E,10,10,0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



000000:000000

CO-ELUTION SUMMARY FOR FILE - 0126015.d

Lab ID: SF76E, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Handwritten: 1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126016.d
 Lab Smp Id: SF76F Client Smp ID: MW-08-012111
 Inj Date : 26-JAN-2011 16:06
 Operator : PC Inst ID: nt7.i
 Smp Info : SF76F,10,10,0
 Misc Info : 11-1423
 Comment :
 Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
 Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
175 Trans-1,2-Dichloroethene	96						
3 cis-1,2-dichloroethene	96						
6 Benzene	78						
* 4 Pentafluorobenzene	168	5.317	5.316	(1.000)	323026	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.326	(1.002)	183975	1065.61	1065.6
176 1,2-Dichloroethane	62						
8 Trichloroethene	130						
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	497240	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	552424	991.070	991.07
10 Tetrachloroethene	166						
11 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 26-JAN-2011
Lab File ID: 0126016.d	Calibration Time: 09:58
Lab Smp Id: SF76F	Client Smp ID: MW-08-012111
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: PC	
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m	
Misc Info: 11-1423	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	323026	-3.37
7 1,4-Difluorobenze	528497	264248	1056994	497240	-5.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.21

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: SF76F
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1423

Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-08-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1065.6	106.56	80-126
\$ 9 d8-Toluene	1000.0	991.07	99.11	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126016.d

Date: 26-JAN-2011 16:06

Client ID: HM-08-012111

Sample Info: SF76F,10,10,0

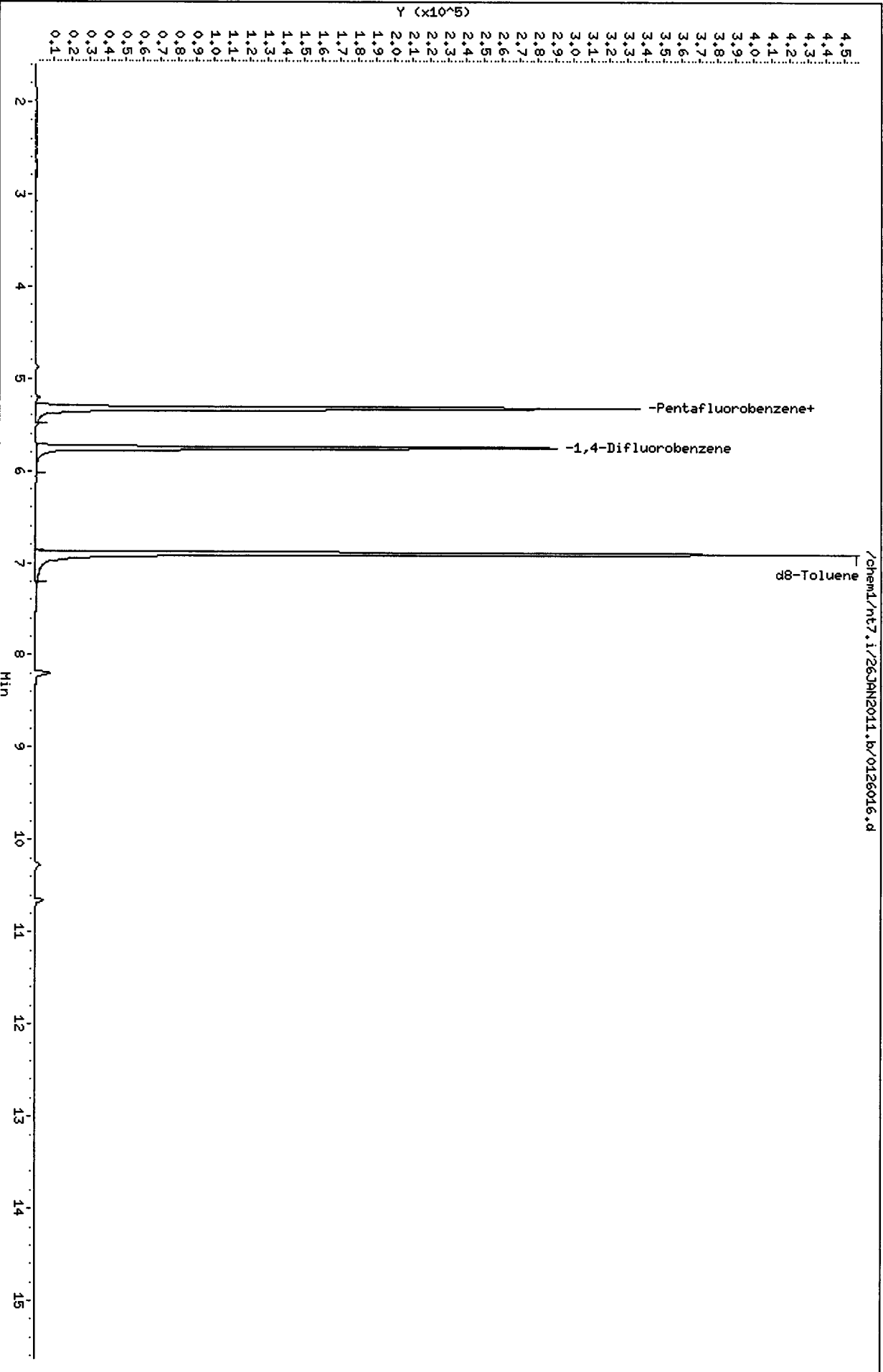
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

Page 4



SF25 : 00570

CO-ELUTION SUMMARY FOR FILE - 0126016.d

Lab ID: SF76F, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126017.d
 Lab Smp Id: SF76G Client Smp ID: MW-01-012111
 Inj Date : 26-JAN-2011 16:32
 Operator : PC Inst ID: nt7.i
 Smp Info : SF76G,10,10,0
 Misc Info : 11-1424
 Comment :
 Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
 Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
 Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.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				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.564	1.550	(0.294)	11716	46.2357	46.236
2 1,1-Dichloroethene	96	2.511	2.505	(0.472)	1950	10.3699	10.370
175 Trans-1,2-Dichloroethene	96	3.290	3.284	(0.619)	12298	58.9952	58.995 ✓
3 cis-1,2-dichloroethene	96	4.440	4.434	(0.835)	56110	262.807	262.81 ✓
6 Benzene	78	5.211	5.203	(0.907)	526782	553.273	553.27
* 4 Pentafluorobenzene	168	5.315	5.316	(1.000)	324999	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.326	(1.002)	183874	1058.56	1058.6
176 1,2-Dichloroethane	62	5.381	5.383	(1.012)	9596	36.9133	36.913 ✓
8 Trichloroethene	130	5.710	5.709	(0.994)	26336	125.090	125.09 (Q) ✓
* 7 1,4-Difluorobenzene	114	5.744	5.743	(1.000)	509077	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.202)	572443	1003.11	1003.1
10 Tetrachloroethene	166	7.271	7.259	(1.266)	4503	24.6243	24.624 ✓
11 1,1,2,2-Tetrachloroethane	83	9.412	9.446	(1.638)	3218	25.8165	25.816 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 26-JAN-2011
Lab File ID: 0126017.d	Calibration Time: 09:58
Lab Smp Id: SF76G	Client Smp ID: MW-01-012111
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: PC	
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m	
Misc Info: 11-1424	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	324999	-2.78
7 1,4-Difluorobenze	528497	264248	1056994	509077	-3.67

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	-0.02
7 1,4-Difluorobenze	5.74	5.24	6.24	5.74	0.02

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: SF76G
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1424

Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-01-012111
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	1058.6	105.86	80-126
\$ 9 d8-Toluene	1000.0	1003.1	100.31	80-120

Data File: /chem1/nt7.1/26JAN2011.b/0126017.d
Date : 26-JAN-2011 16:32
Client ID: MW-01-012111
Sample Info: SF76G,10,10,0

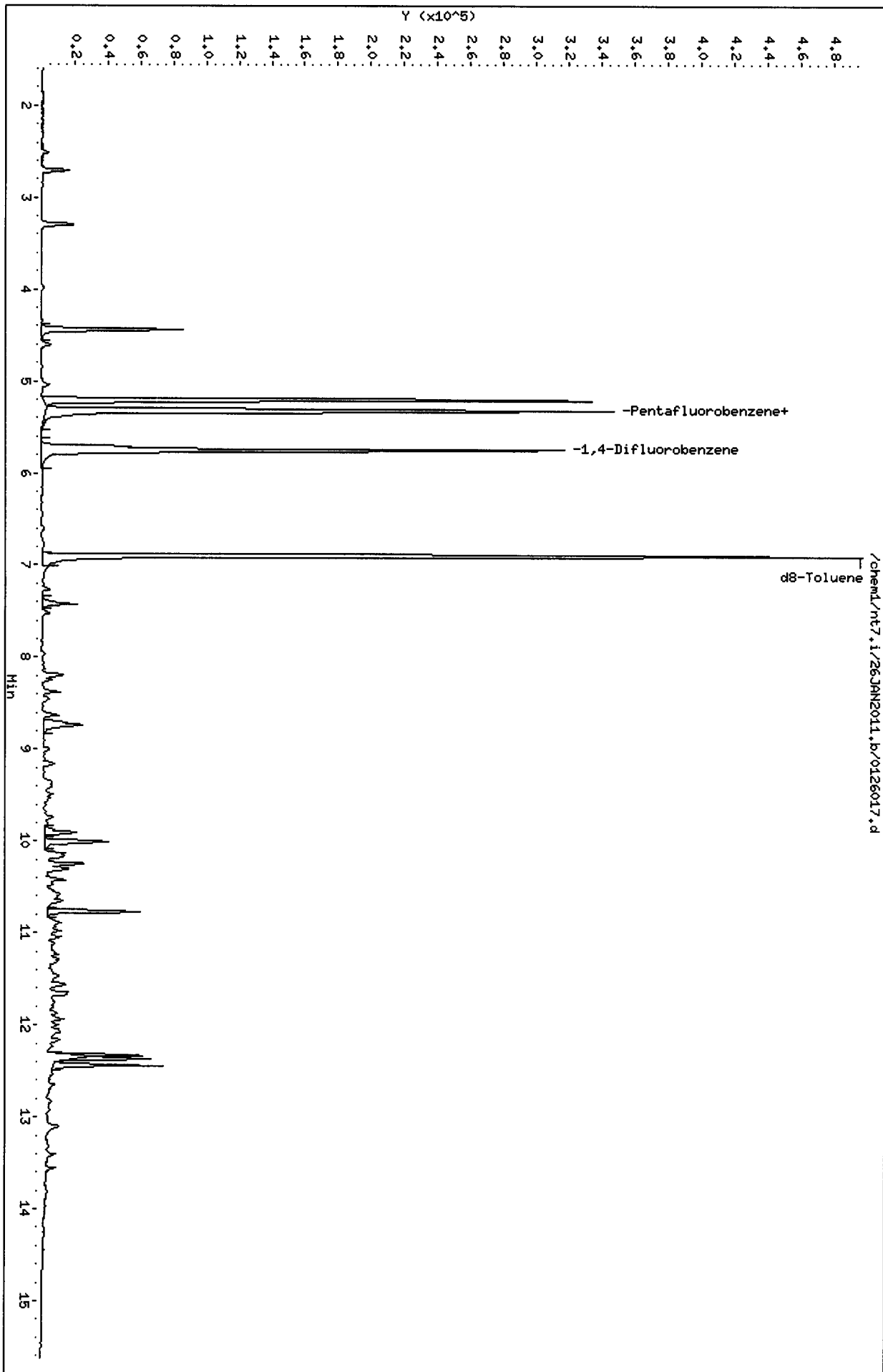
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

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SF26 : 80570

Date : 26-JAN-2011 16:32

Client ID: MW-01-012111

Instrument: nt7.i

Sample Info: SF76G,10,10,0

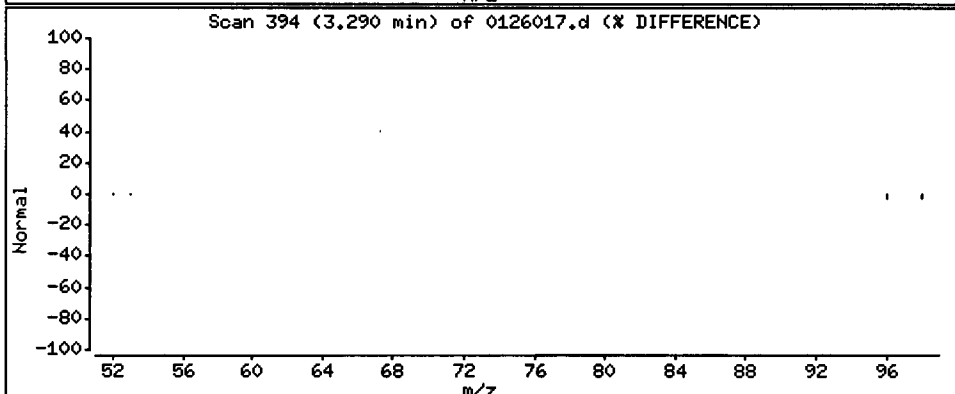
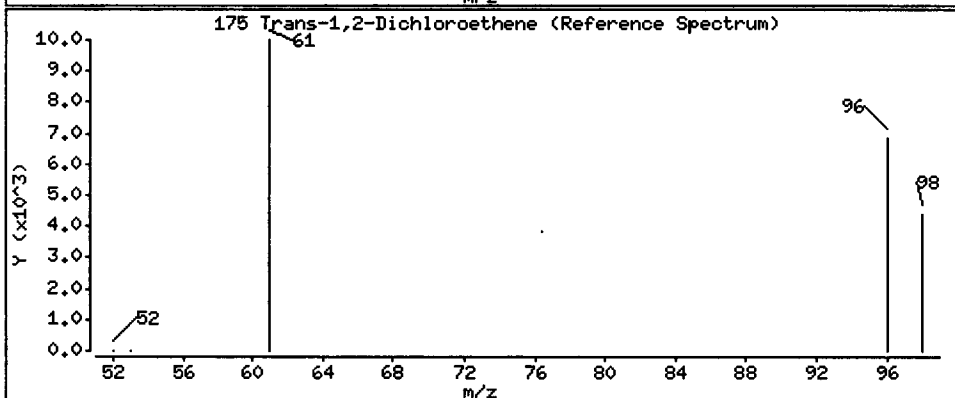
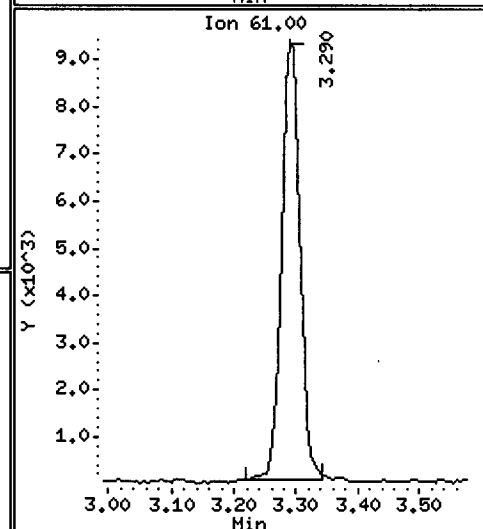
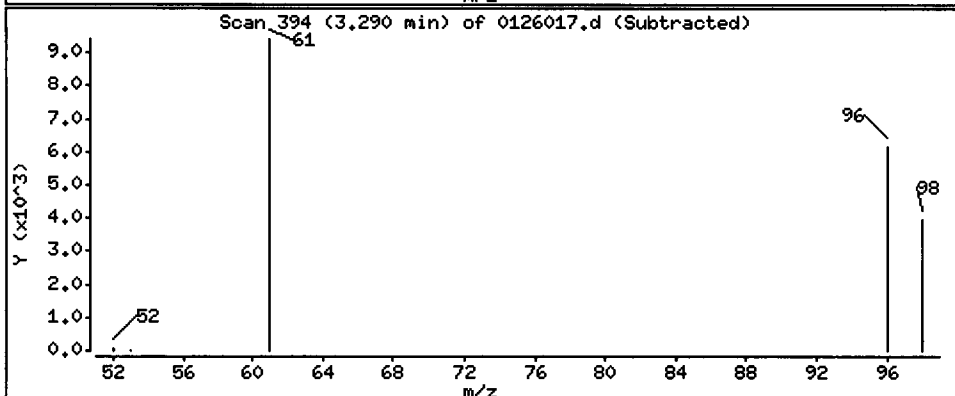
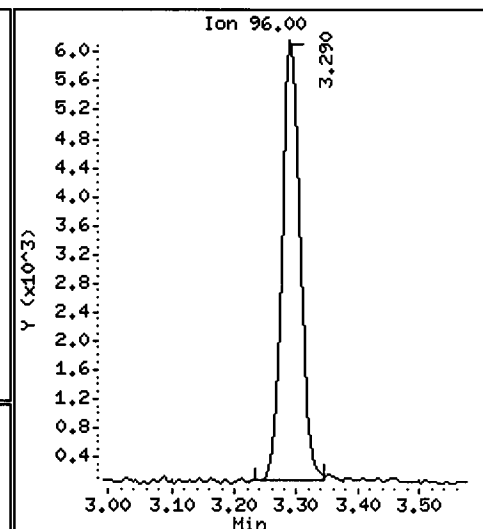
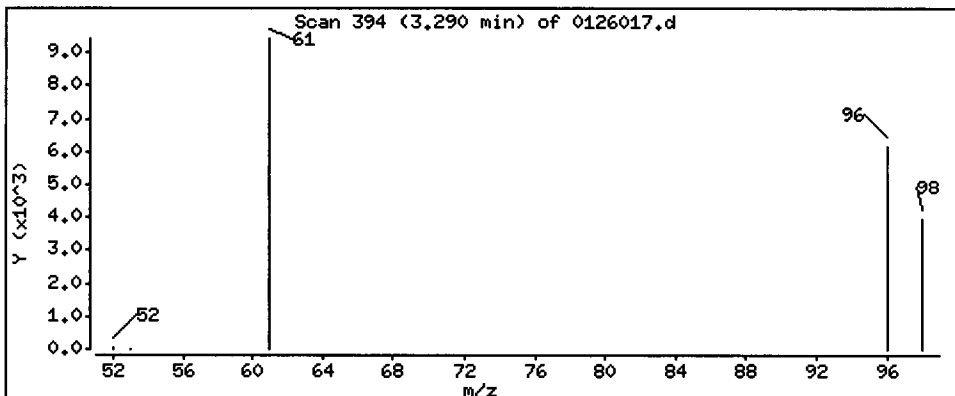
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

175 Trans-1,2-Dichloroethene

Concentration: 58.995 ug/L



Date : 26-JAN-2011 16:32

Client ID: MW-01-012111

Instrument: nt7.i

Sample Info: SF76G,10,10,0

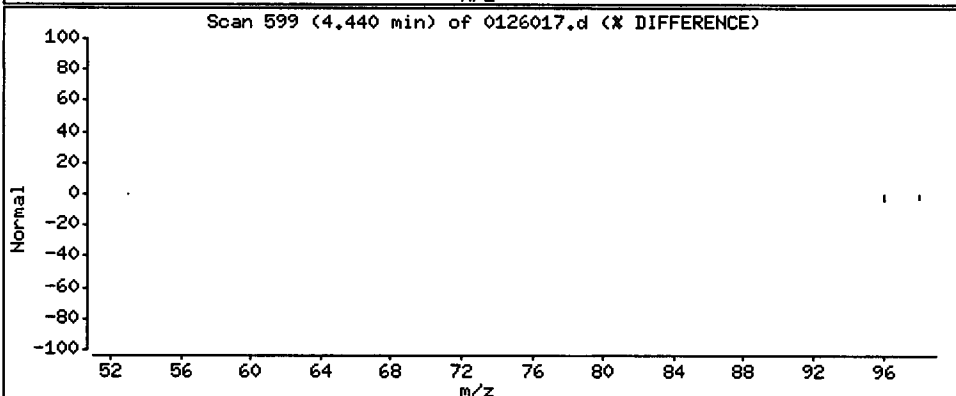
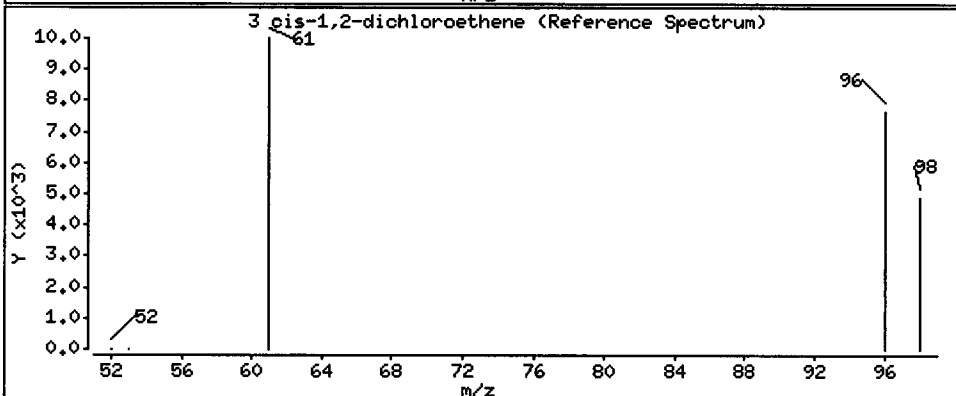
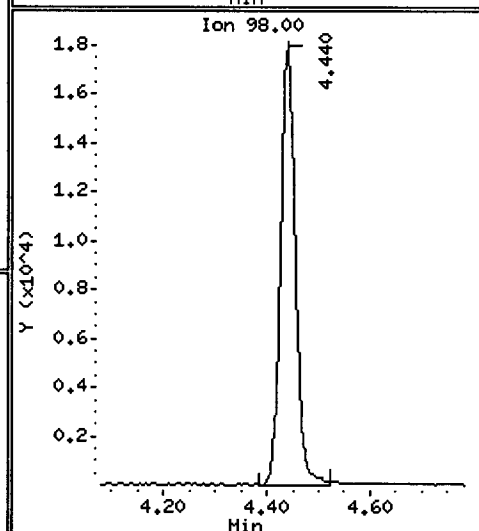
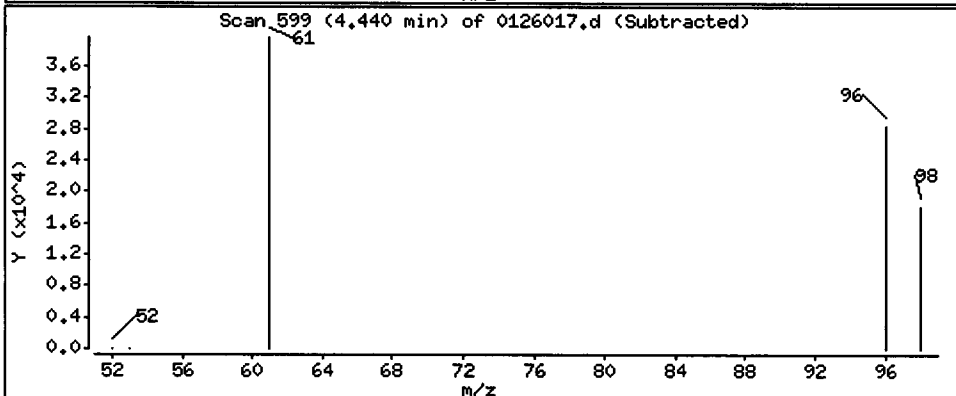
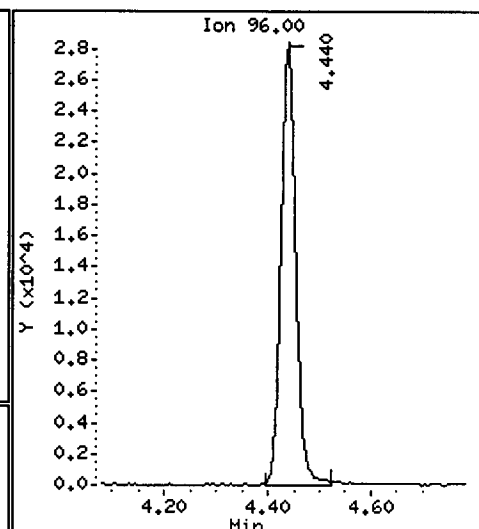
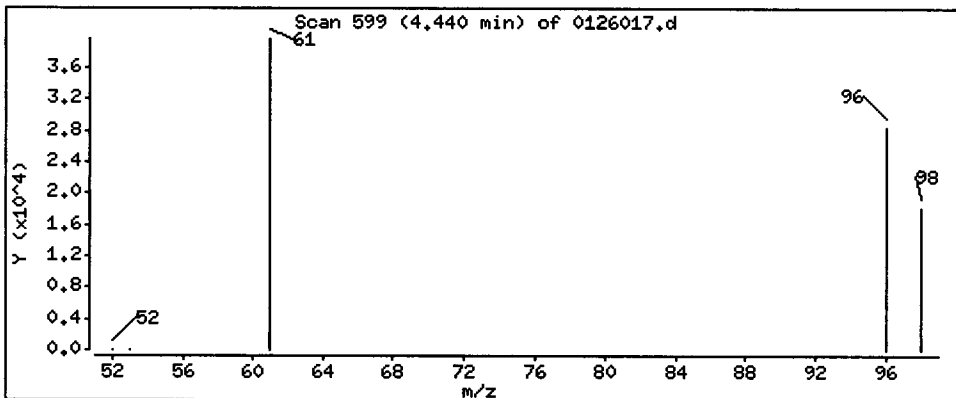
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

3 cis-1,2-dichloroethene

Concentration: 262.81 ug/L



Date : 26-JAN-2011 16:32

Client ID: MW-01-012111

Instrument: nt7.i

Sample Info: SF76G,10,10,0

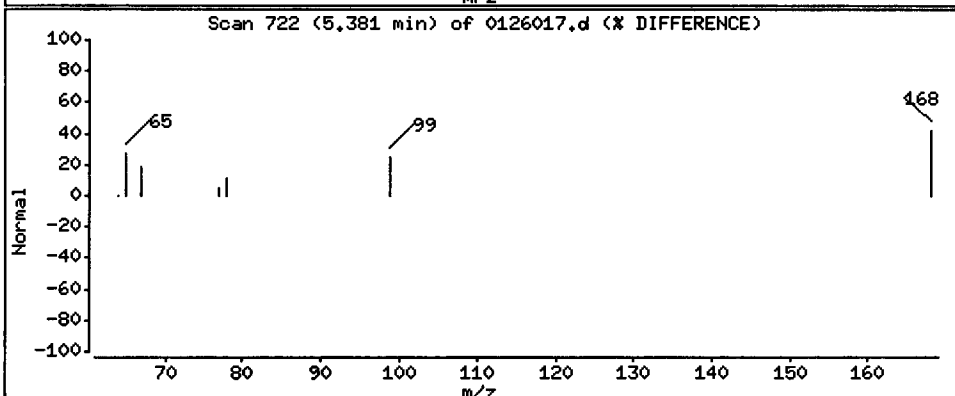
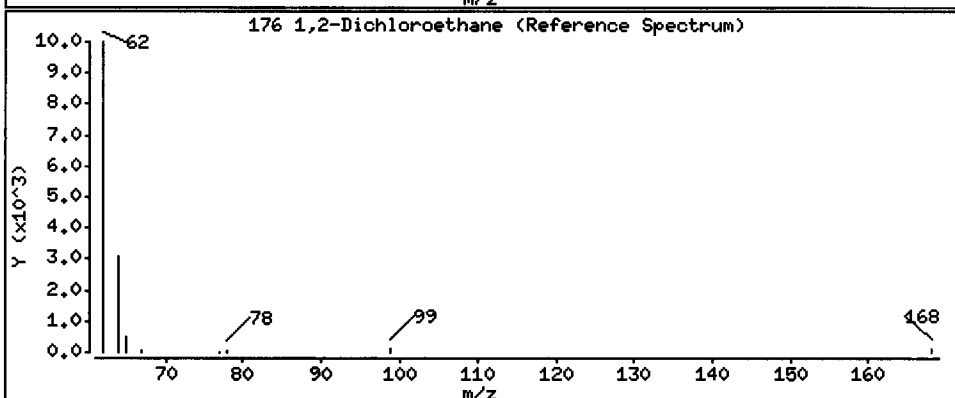
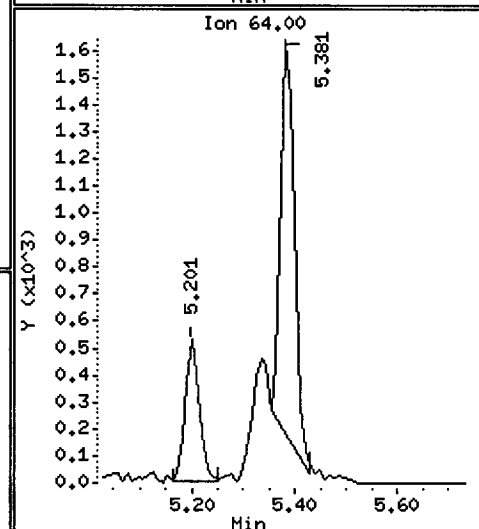
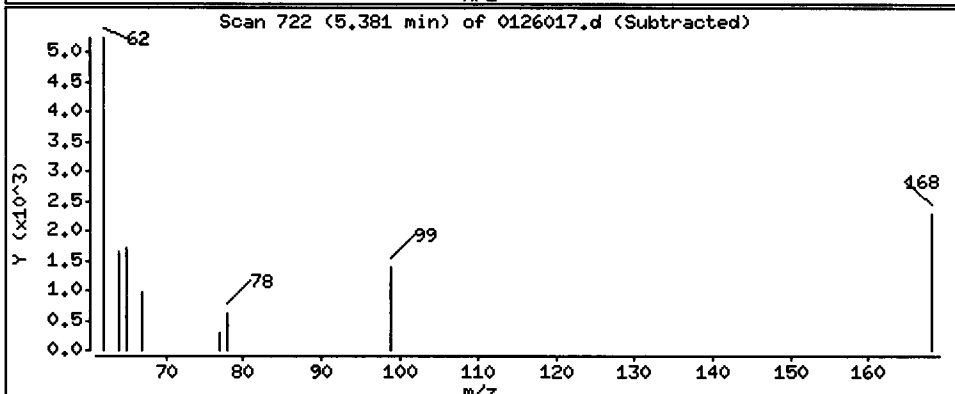
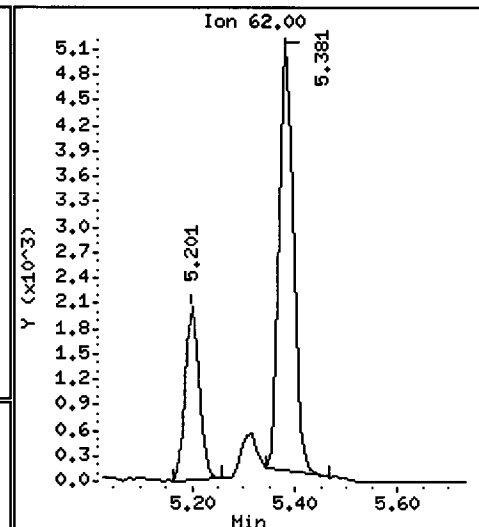
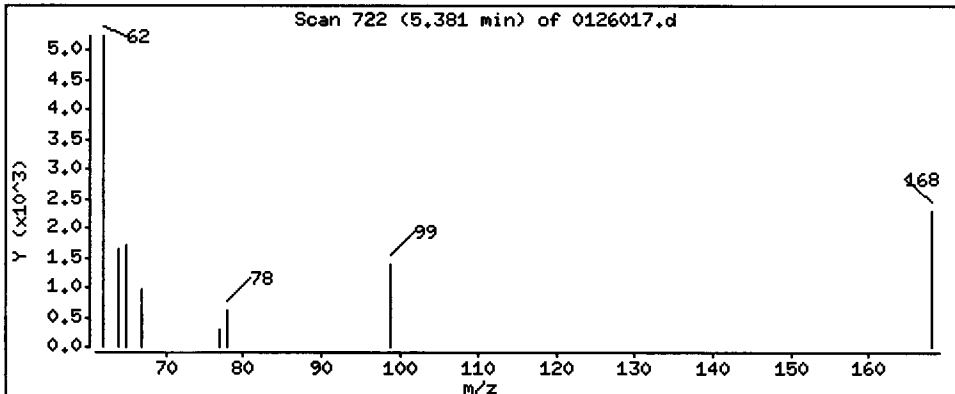
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

176 1,2-Dichloroethane

Concentration: 36.913 ug/L



Date : 26-JAN-2011 16:32

Client ID: MW-01-012111

Instrument: nt7,i

Sample Info: SF76G,10,10,0

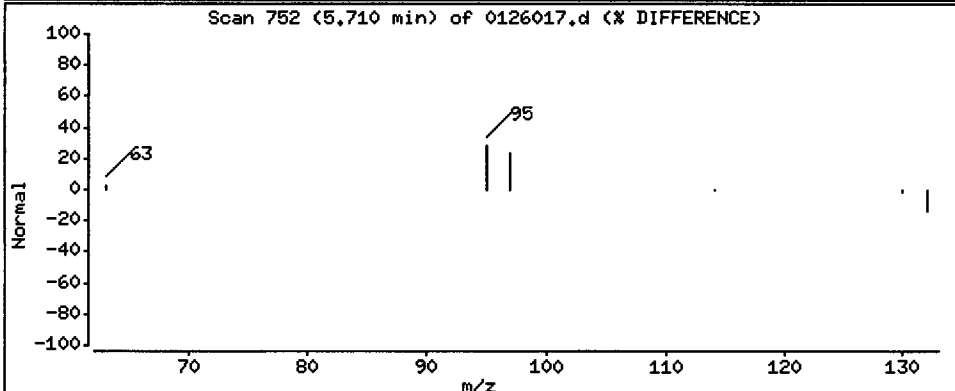
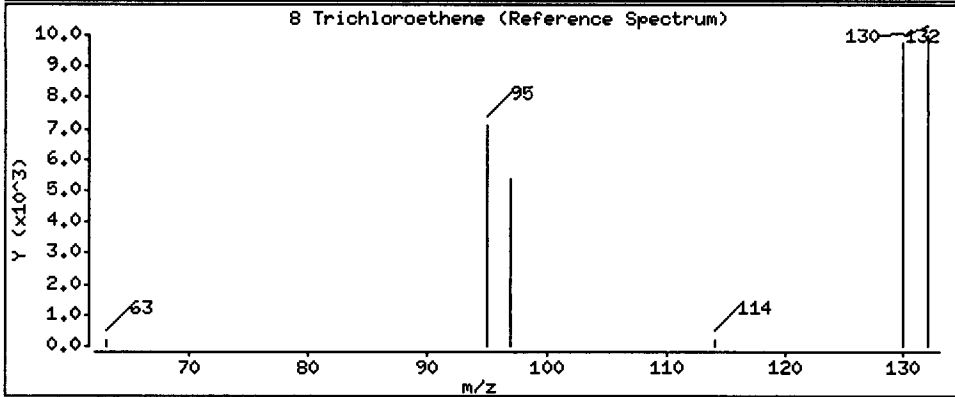
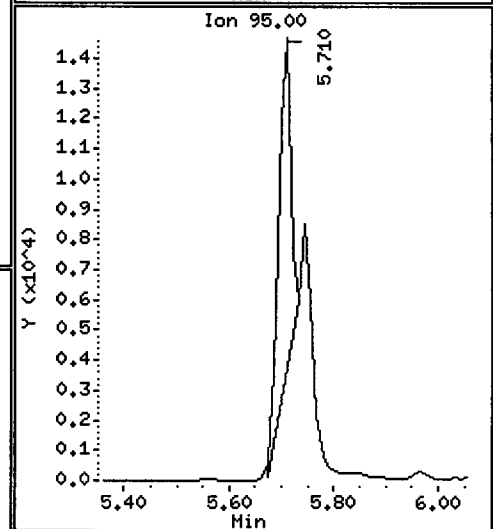
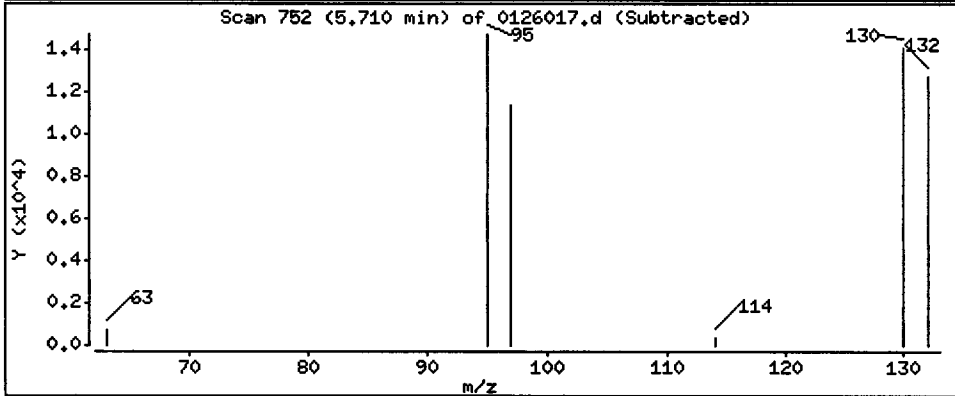
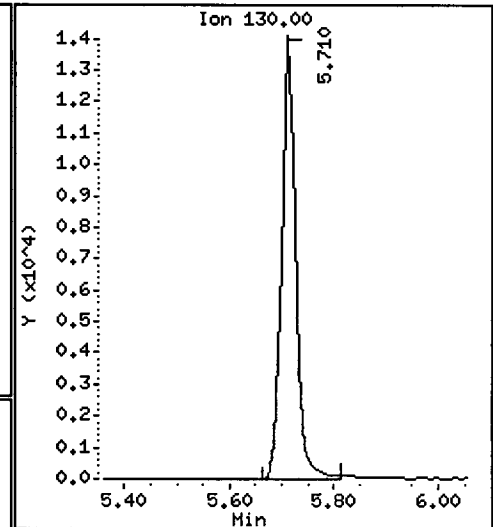
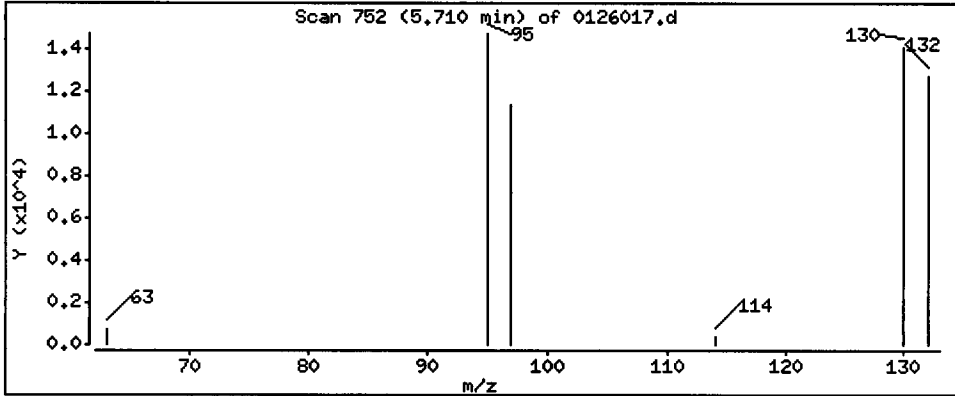
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

8 Trichloroethene

Concentration: 125.09 ug/L



Date : 26-JAN-2011 16:32

Client ID: MW-01-012111

Instrument: nt7.i

Sample Info: SF76G,10,10,0

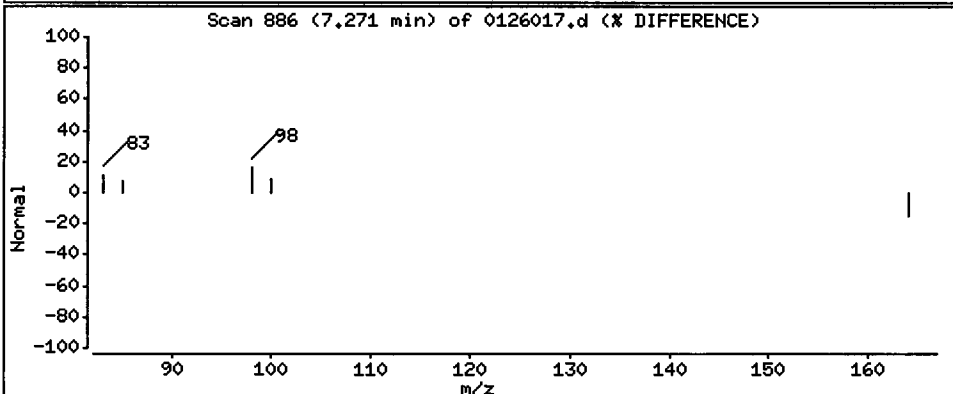
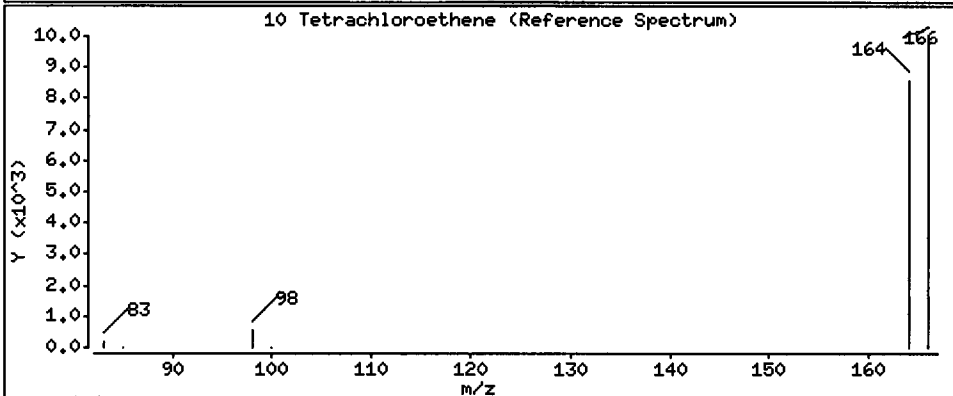
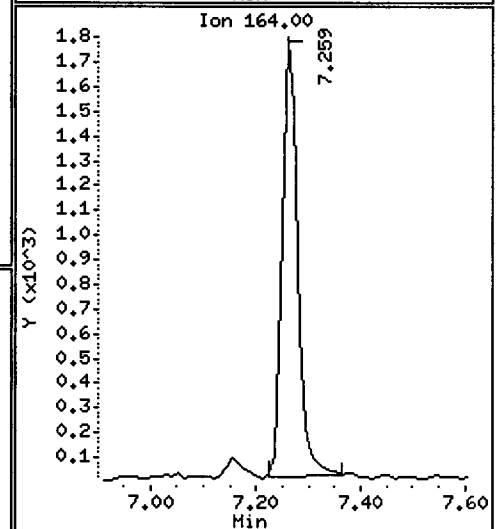
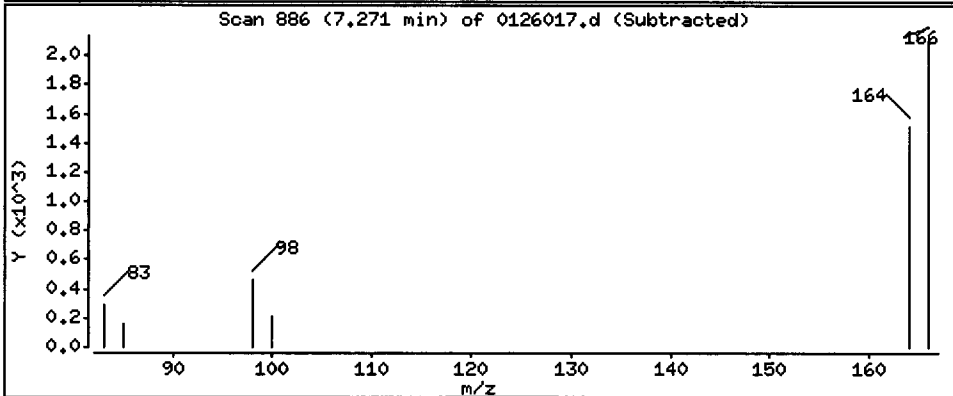
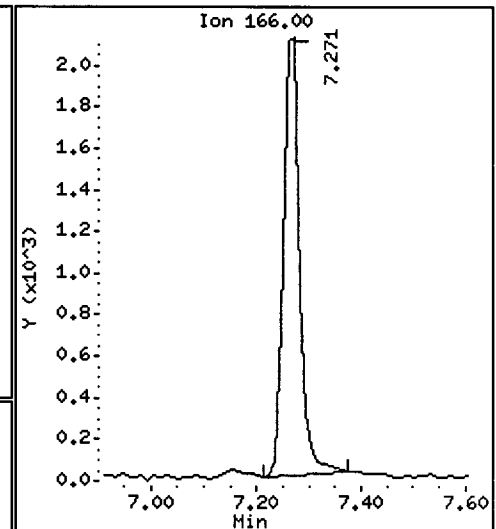
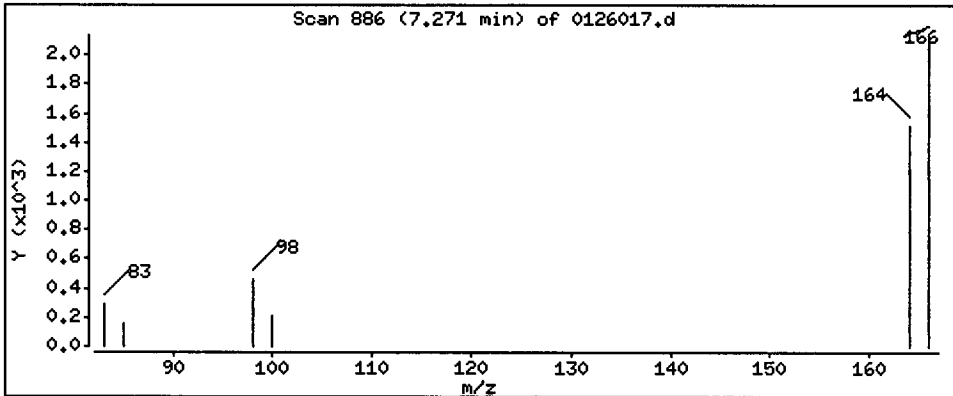
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

10 Tetrachloroethene

Concentration: 24.624 ug/L



CO-ELUTION SUMMARY FOR FILE - 0126017.d

Lab ID: SF76G, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PG
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126018.d
Lab Smp Id: SF76H Client Smp ID: MW-01-012111-D
Inj Date : 26-JAN-2011 16:57
Operator : PC Inst ID: nt7.i
Smp Info : SF76H,10,10,0
Misc Info : 11-1425
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.554	1.550	(0.292)	11170	41.5560	41.556
2 1,1-Dichloroethene	96	2.515	2.505	(0.473)	2036	10.2053	10.205
175 Trans-1,2-Dichloroethene	96	3.294	3.284	(0.620)	11556	52.2593	52.259 ✓
3 cis-1,2-dichloroethene	96	4.438	4.434	(0.835)	53405	235.803	235.80 ✓
6 Benzene	78	5.212	5.203	(0.906)	502302	498.275	498.27
* 4 Pentafluorobenzene	168	5.316	5.316	(1.000)	344757	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.325	5.326	(1.002)	183934	998.223	998.22 ✓
176 1,2-Dichloroethane	62	5.382	5.383	(1.012)	8967	32.5165	32.516 ✓
8 Trichloroethene	130	5.709	5.709	(0.992)	27164	121.859	121.86 (Q) ✓
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	538999	1000.00	
\$ 9 d8-Toluene	98	6.903	6.902	(1.200)	603566	998.929	998.93 ✓
10 Tetrachloroethene	166	7.271	7.259	(1.264)	4669	24.1141	24.114 ✓
11 1,1,2,2-Tetrachloroethane	83	9.412	9.446	(1.636)	2756	20.8805	20.881 (Q) ✓

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i	Calibration Date: 26-JAN-2011
Lab File ID: 0126018.d	Calibration Time: 09:58
Lab Smp Id: SF76H	Client Smp ID: MW-01-012111-D
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: PC	
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m	
Misc Info: 11-1425	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	344757	3.13
7 1,4-Difluorobenze	528497	264248	1056994	538999	1.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.00
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.20

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: SF76H
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: sim12dca.sub
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1425

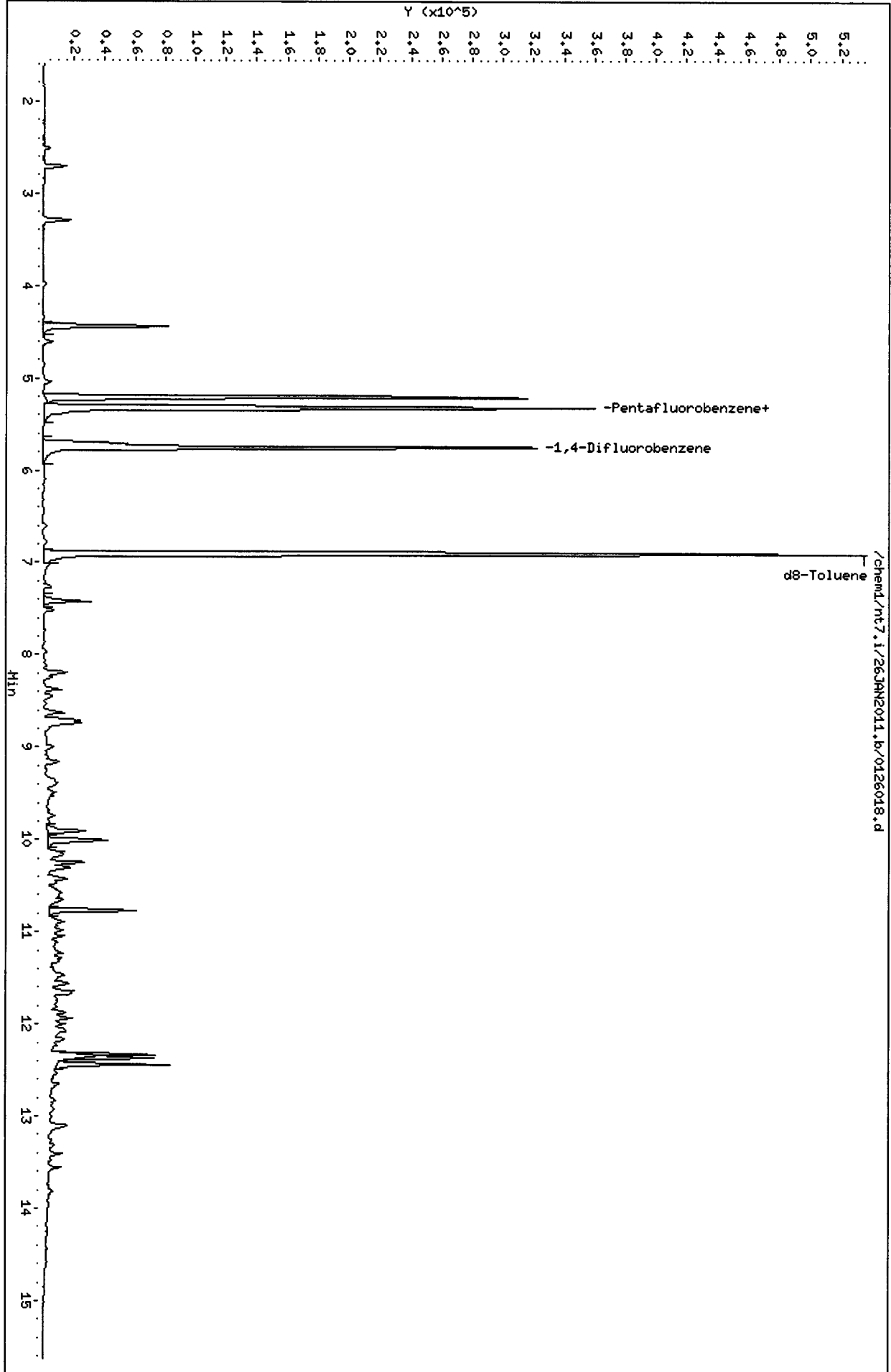
Client SDG: SF76
Fraction: VOA
Client Smp ID: MW-01-012111-D
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	998.22	99.82	80-126
\$ 9 d8-Toluene	1000.0	998.93	99.89	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126018.d
Date : 26-JAN-2011 16:57
Client ID: HM-01-012111-D
Sample Info: SF76H,10,10,0

Column phase: RTXVMS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



1201556 : 00 21 15

Date : 26-JAN-2011 16:57

Client ID: MW-01-012111-D

Instrument: nt7.i

Sample Info: SF76H,10,10,0

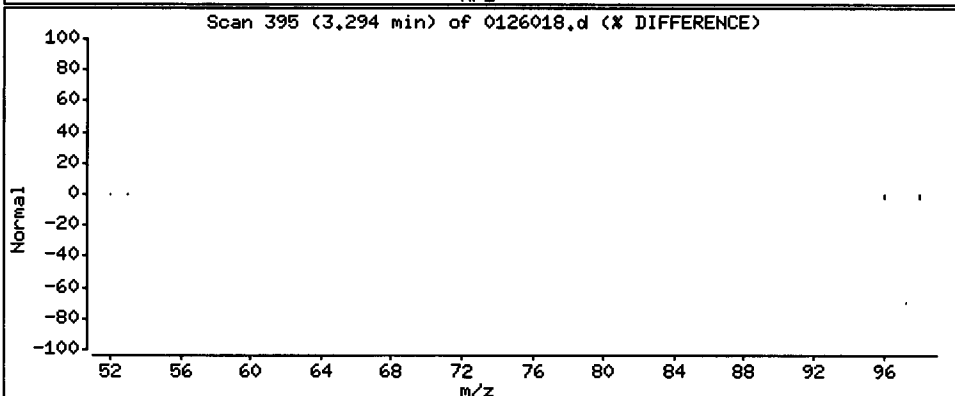
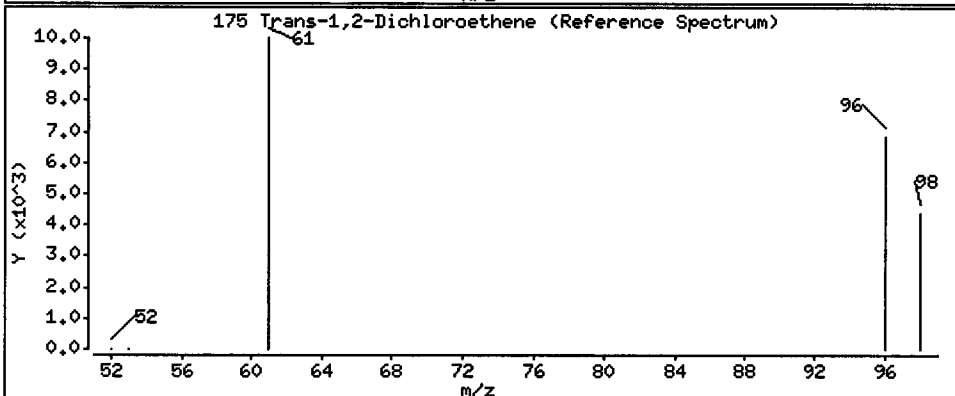
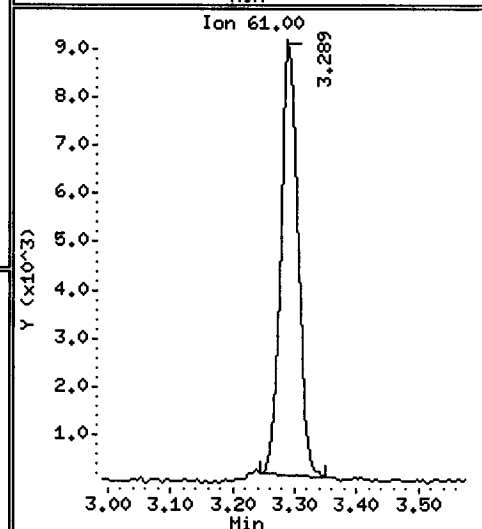
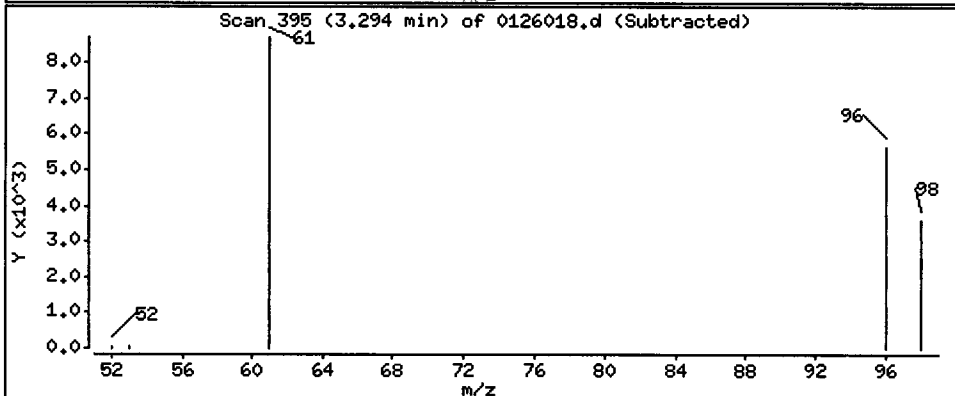
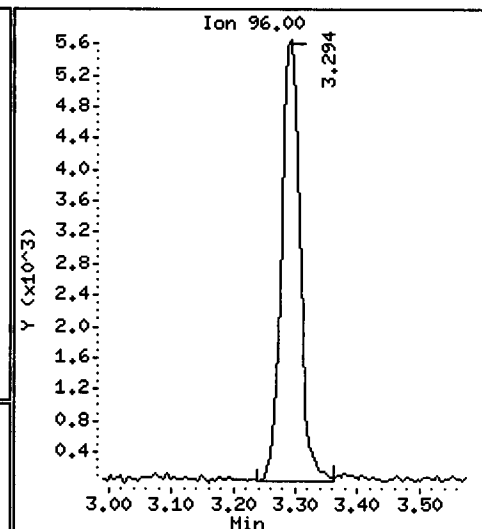
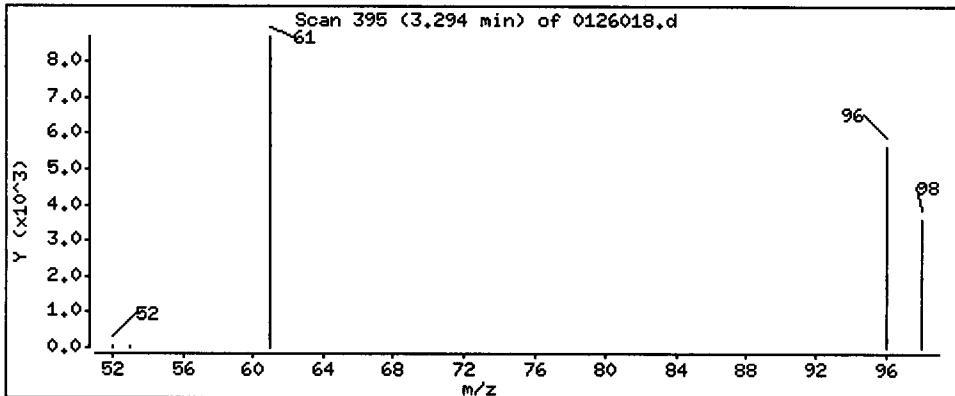
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

175 Trans-1,2-Dichloroethene

Concentration: 52.259 ug/L



Date : 26-JAN-2011 16:57

Client ID: MW-01-012111-D

Instrument: nt7.i

Sample Info: SF76H,10,10,0

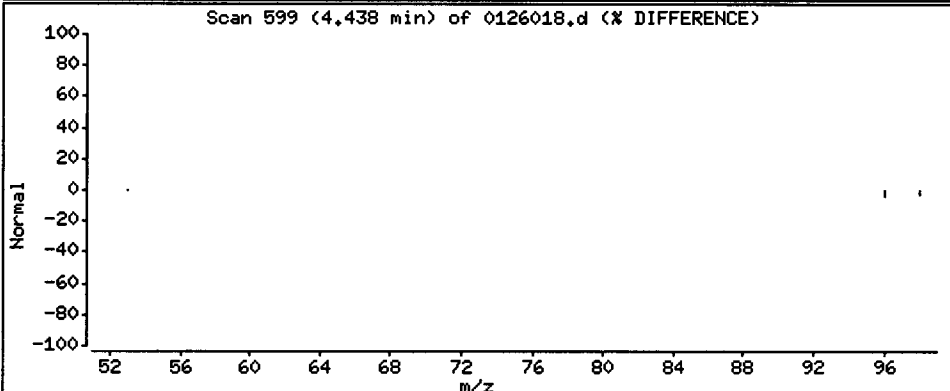
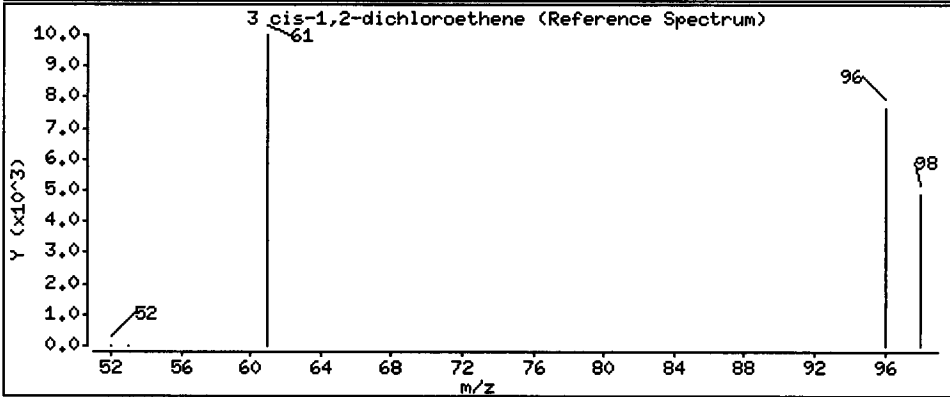
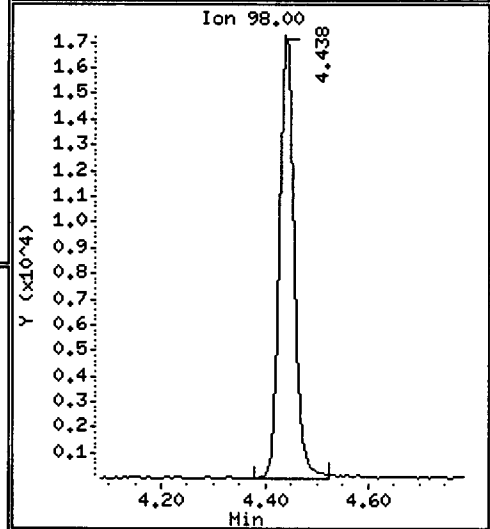
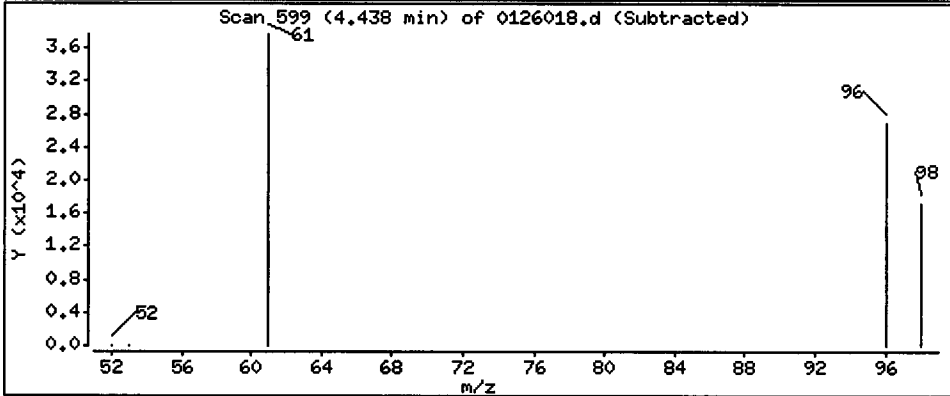
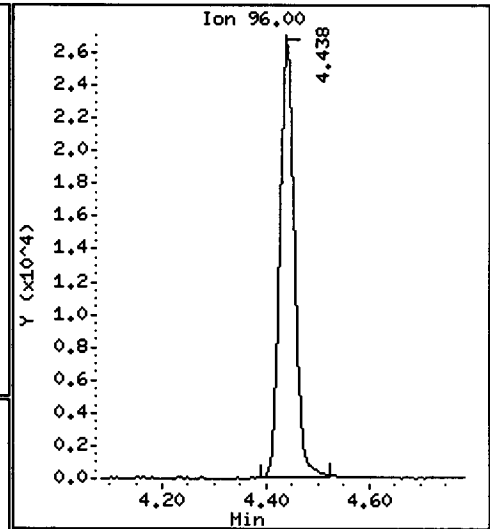
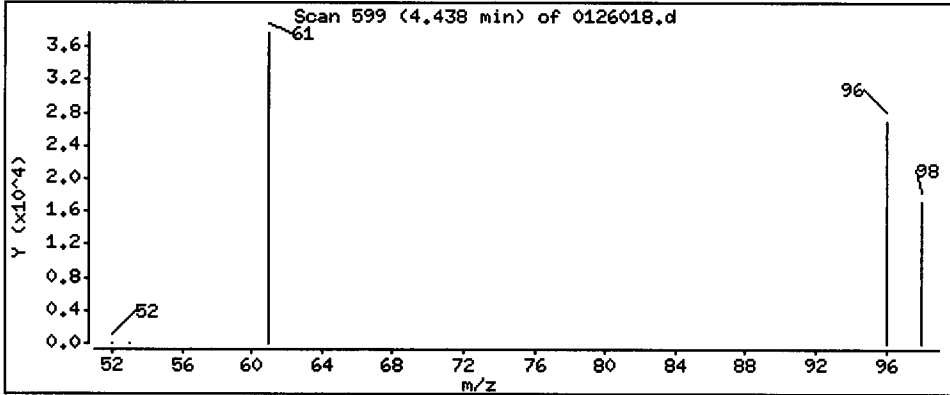
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

3 cis-1,2-dichloroethene

Concentration: 235.80 ug/L



Date : 26-JAN-2011 16:57

Client ID: MW-01-012111-D

Instrument: nt7.i

Sample Info: SF76H,10,10,0

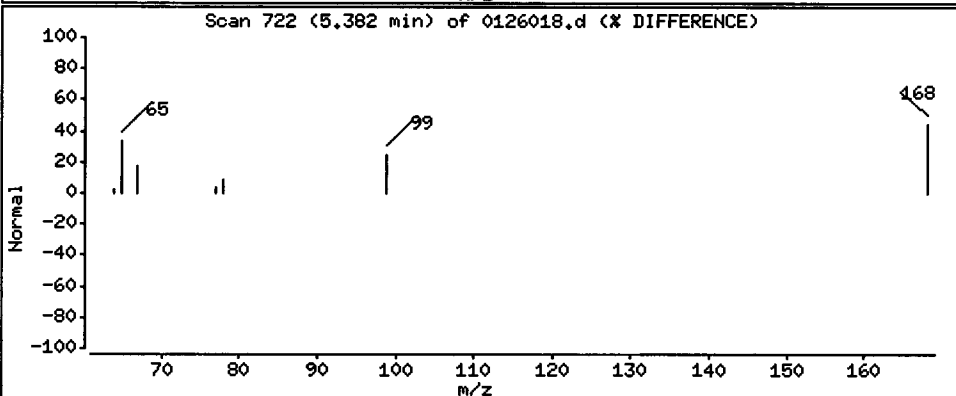
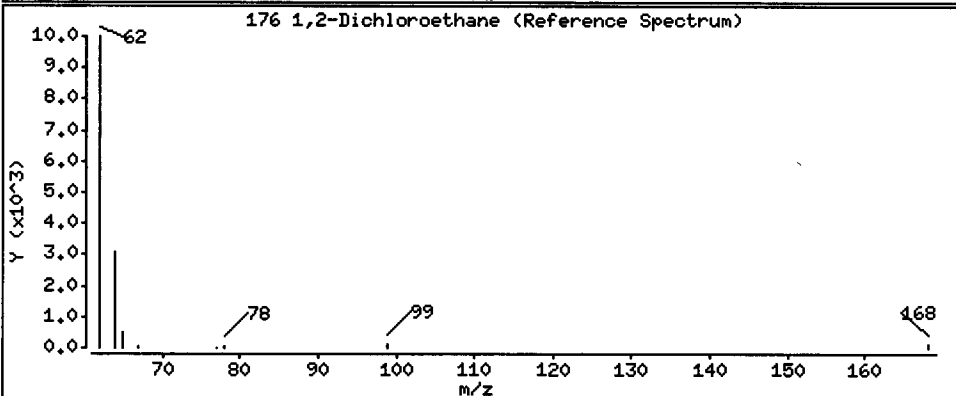
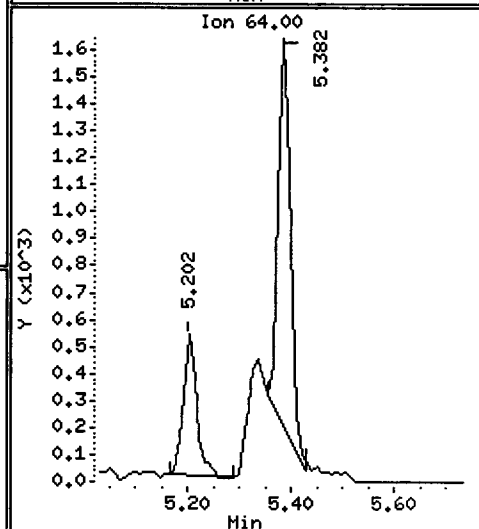
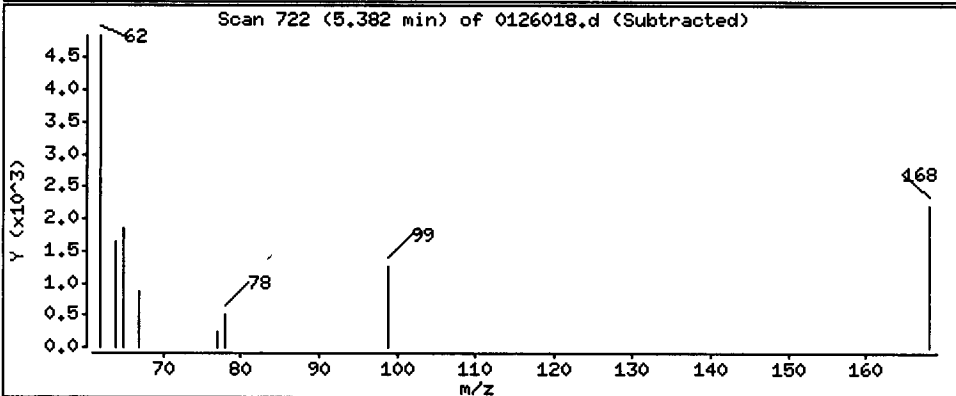
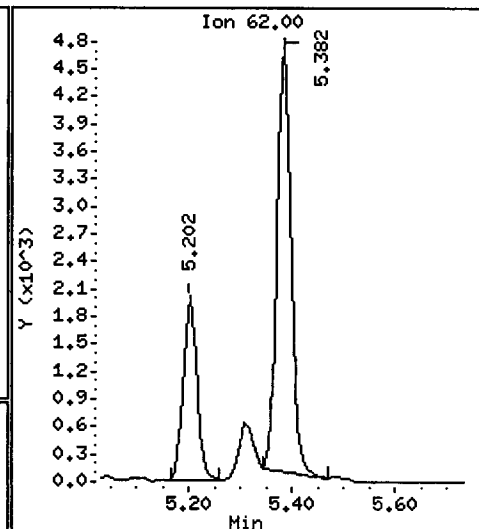
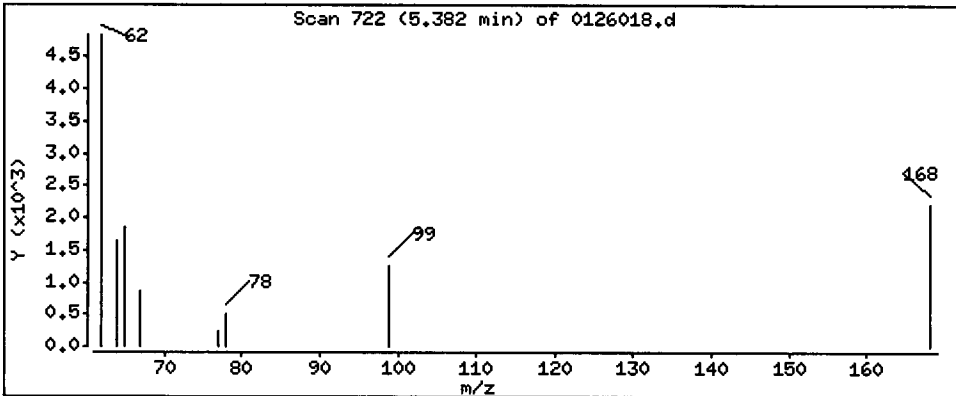
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

176 1,2-Dichloroethane

Concentration: 32.516 ug/L



Date : 26-JAN-2011 16:57

Client ID: MW-01-012111-D

Instrument: nt7,i

Sample Info: SF76H,10,10,0

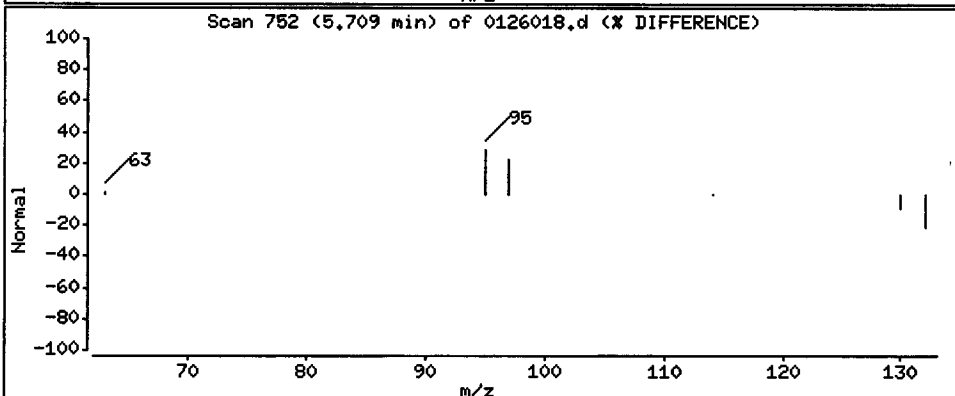
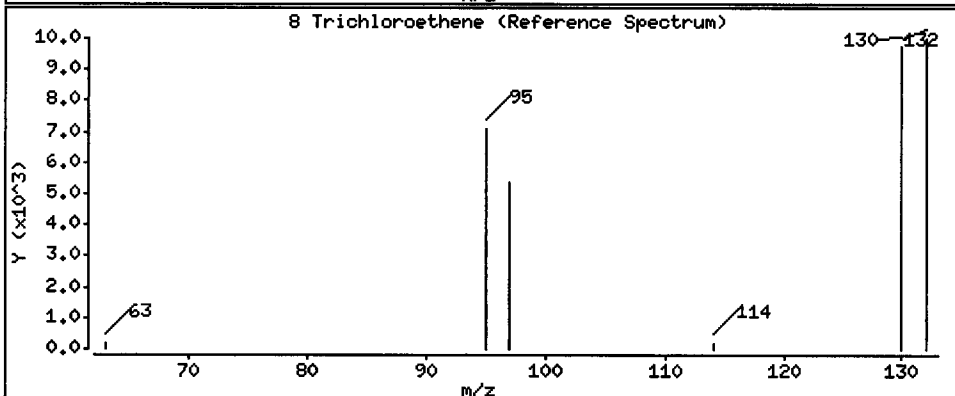
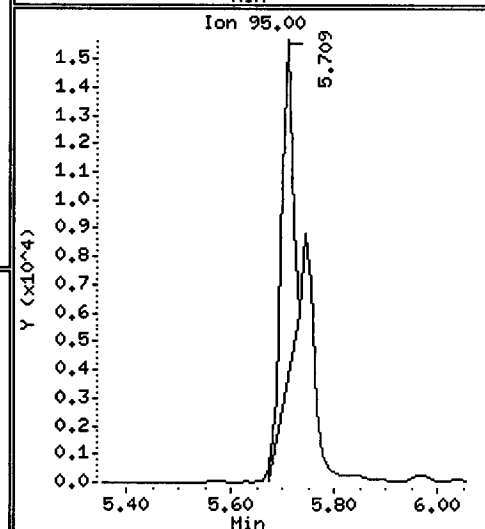
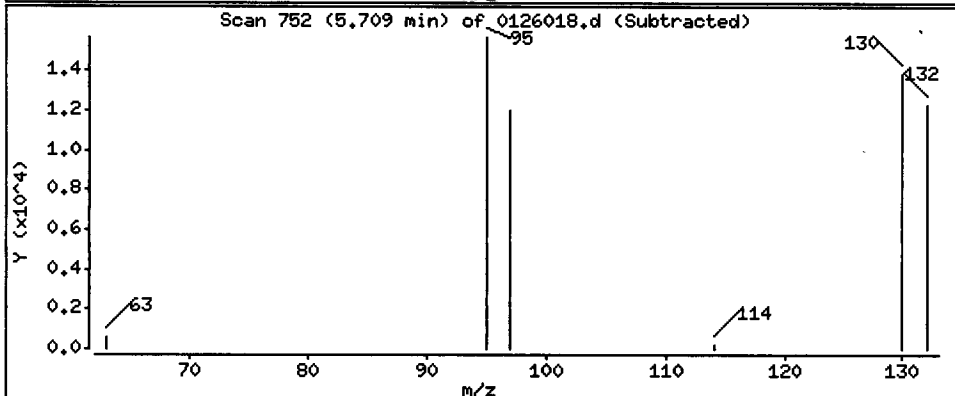
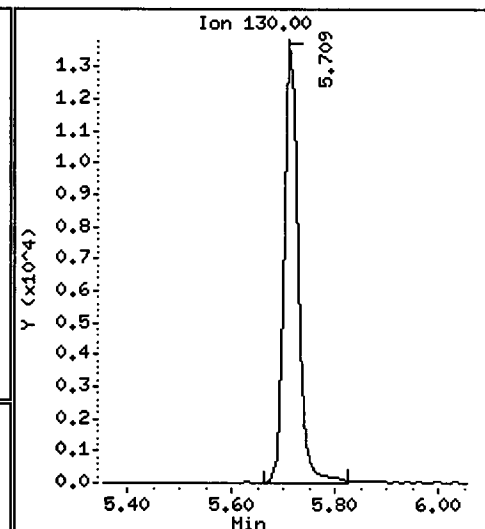
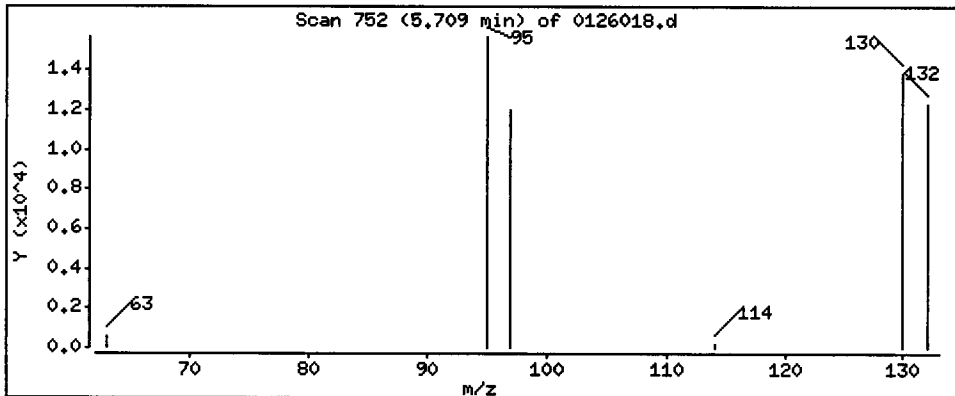
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

8 Trichloroethene

Concentration: 121.86 ug/L



Date : 26-JAN-2011 16:57

Client ID: MW-01-012111-D

Instrument: nt7.i

Sample Info: SF76H,10,10,0

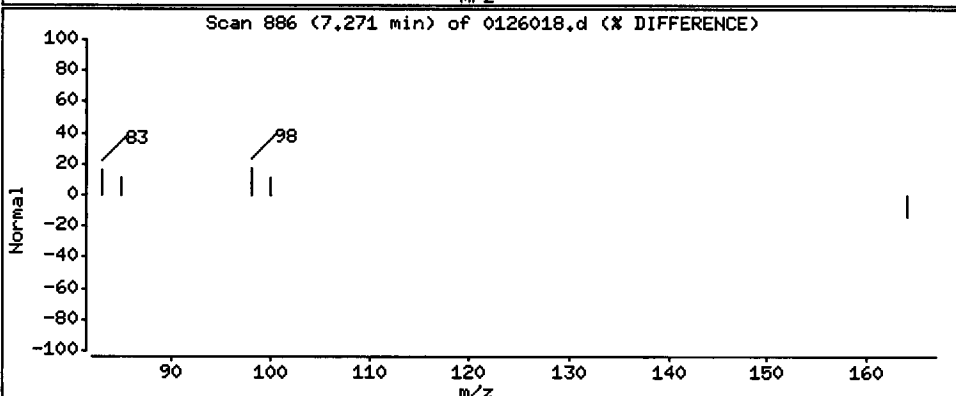
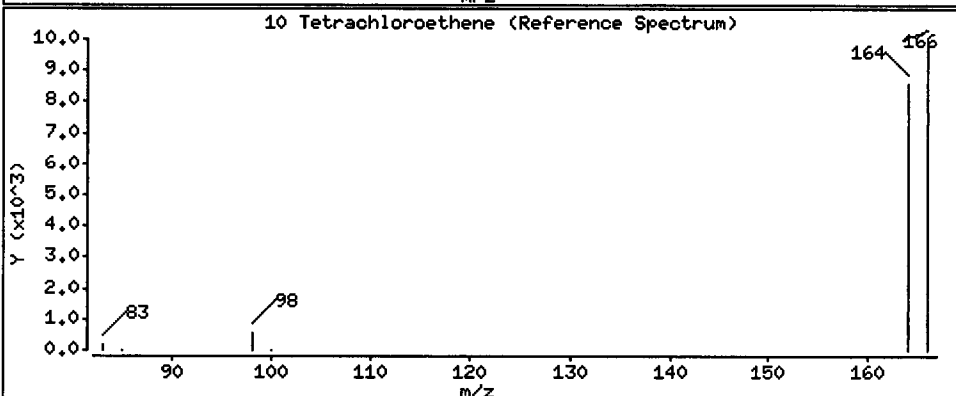
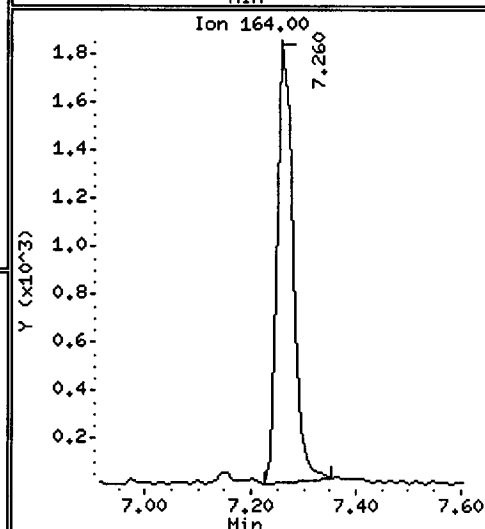
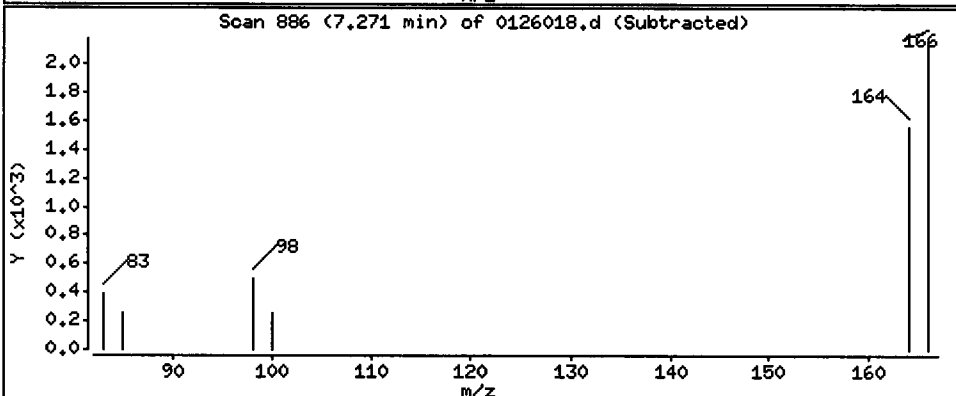
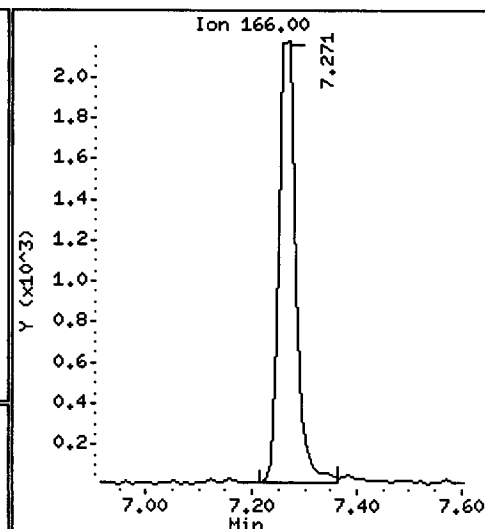
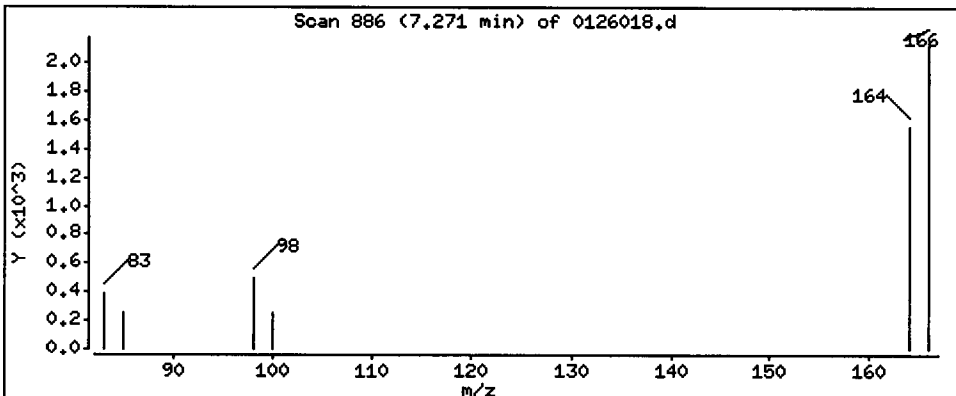
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

10 Tetrachloroethene

Concentration: 24,114 ug/L



CO-ELUTION SUMMARY FOR FILE - 0126018.d

Lab ID: SF76H, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126019.d
Lab Smp Id: SF76BMS Client Smp ID: MW-05-012111 MS
Inj Date : 26-JAN-2011 17:23
Operator : PC Inst ID: nt7.i
Smp Info : SF76BMS,10,10,0
Misc Info : 11-1419
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.551	1.550	(0.292)	307607	1167.69	1167.7
2 1,1-Dichloroethene	96	2.510	2.505	(0.472)	201200	1028.79	1028.8
175 Trans-1,2-Dichloroethene	96	3.290	3.284	(0.619)	225476	1040.43	1040.4
3 cis-1,2-dichloroethene	96	4.439	4.434	(0.835)	233229	1050.83	1050.8
6 Benzene	78	5.212	5.203	(0.906)	989756	997.594	997.59
* 4 Pentafluorobenzene	168	5.317	5.316	(1.000)	337851	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.326	5.326	(1.002)	161648	895.208	895.21
176 1,2-Dichloroethane	62	5.383	5.383	(1.012)	292840	1083.58	1083.6
8 Trichloroethene	130	5.709	5.709	(0.992)	221646	1010.28	1010.3
* 7 1,4-Difluorobenzene	114	5.755	5.743	(1.000)	530477	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	603022	1014.06	1014.1
10 Tetrachloroethene	166	7.258	7.259	(1.261)	196922	1033.33	1033.3
11 1,1,2,2-Tetrachloroethane	83	9.445	9.446	(1.641)	145414	1119.23	1119.2

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0126019.d
Lab Smp Id: SF76BMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
Misc Info: 11-1419

Calibration Date: 26-JAN-2011
Calibration Time: 09:58
Client Smp ID: MW-05-012111 MS
Level: LOW
Sample Type: Groundwater

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	337851	1.06
7 1,4-Difluorobenze	528497	264248	1056994	530477	0.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.01
7 1,4-Difluorobenze	5.74	5.24	6.24	5.75	0.20

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: SF76BMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1419

Client SDG: SF76
 Fraction: VOA
 Client Smp ID: MW-05-012111 MS
 Operator: PC
 SampleType: MS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1167.7	116.77	76-120
176 1,2-Dichloroethane	1000.0	1083.6	108.36	80-128
175 Trans-1,2-Dichloro	1000.0	1040.4	104.04	80-120
2 1,1-Dichloroethene	1000.0	1028.8	102.88	80-120
3 cis-1,2-dichloroet	1000.0	1050.8	105.08	80-120
6 Benzene	1000.0	997.59	99.76	80-120
8 Trichloroethene	1000.0	1010.3	101.03	80-120
10 Tetrachloroethene	1000.0	1033.3	103.33	80-122
11 1,1,2,2-Tetrachlor	1000.0	1119.2	111.92	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	895.21	89.52	80-126
\$ 9 d8-Toluene	1000.0	1014.1	101.41	80-120

CO-ELUTION SUMMARY FOR FILE - 0126019.d

Lab ID: SF76BMS, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

PC
1/27/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26JAN2011.b/0126020.d
Lab Smp Id: SF76BMSD Client Smp ID: MW-05-012111 MSD
Inj Date : 26-JAN-2011 17:49
Operator : PC Inst ID: nt7.i
Smp Info : SF76BMSD,10,10,0
Misc Info : 11-1419
Comment :
Method : /chem1/nt7.i/26JAN2011.b/sim012511.m
Meth Date : 27-Jan-2011 16:11 paul Quant Type: ISTD
Cal Date : 25-JAN-2011 15:10 Cal File: 0125011.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.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 (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.564	1.550	(0.294)	265047	1028.79	1028.8
2 1,1-Dichloroethene	96	2.517	2.505	(0.473)	196643	1028.13	1028.1
175 Trans-1,2-Dichloroethene	96	3.296	3.284	(0.619)	218746	1032.10	1032.1
3 cis-1,2-dichloroethene	96	4.440	4.434	(0.834)	226888	1045.28	1045.3
6 Benzene	78	5.211	5.203	(0.905)	960495	993.856	993.86
* 4 Pentafluorobenzene	168	5.324	5.316	(1.000)	330412	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.324	5.326	(1.000)	154791	876.534	876.53
176 1,2-Dichloroethane	62	5.381	5.383	(1.011)	288538	1091.70	1091.7
8 Trichloroethene	130	5.710	5.709	(0.992)	213180	997.541	997.54
* 7 1,4-Difluorobenzene	114	5.756	5.743	(1.000)	516730	1000.00	
\$ 9 d8-Toluene	98	6.902	6.902	(1.199)	584477	1009.02	1009.0
10 Tetrachloroethene	166	7.259	7.259	(1.261)	189560	1021.16	1021.2
11 1,1,2,2-Tetrachloroethane	83	9.446	9.446	(1.641)	144130	1138.86	1138.9

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0126020.d
 Lab Smp Id: SF76BMSD
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1419

Calibration Date: 26-JAN-2011
 Calibration Time: 09:58
 Client Smp ID: MW-05-012111 MSD
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	334294	167147	668588	330412	-1.16
7 1,4-Difluorobenze	528497	264248	1056994	516730	-2.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.32	4.82	5.82	5.32	0.15
7 1,4-Difluorobenze	5.74	5.24	6.24	5.76	0.22

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: SF76BMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/26JAN2011.b/sim012511.m
 Misc Info: 11-1419

Client SDG: SF76
 Fraction: VOA
 Client Smp ID: MW-05-012111 MSD
 Operator: PC
 SampleType: MSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1028.8	102.88	76-120
176 1,2-Dichloroethane	1000.0	1091.7	109.17	80-128
175 Trans-1,2-Dichloro	1000.0	1032.1	103.21	80-120
2 1,1-Dichloroethene	1000.0	1028.1	102.81	80-120
3 cis-1,2-dichloroet	1000.0	1045.3	104.53	80-120
6 Benzene	1000.0	993.86	99.39	80-120
8 Trichloroethene	1000.0	997.54	99.75	80-120
10 Tetrachloroethene	1000.0	1021.2	102.12	80-122
11 1,1,2,2-Tetrachlor	1000.0	1138.9	113.89	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	876.53	87.65	80-126
\$ 9 d8-Toluene	1000.0	1009.0	100.90	80-120

Data File: /chem1/nt7.i/26JAN2011.b/0126020.d

Date: 26-JAN-2011 17:49

Client ID: MM-05-012111 MSD

Sample Info: SF76BMSD,10,10,0

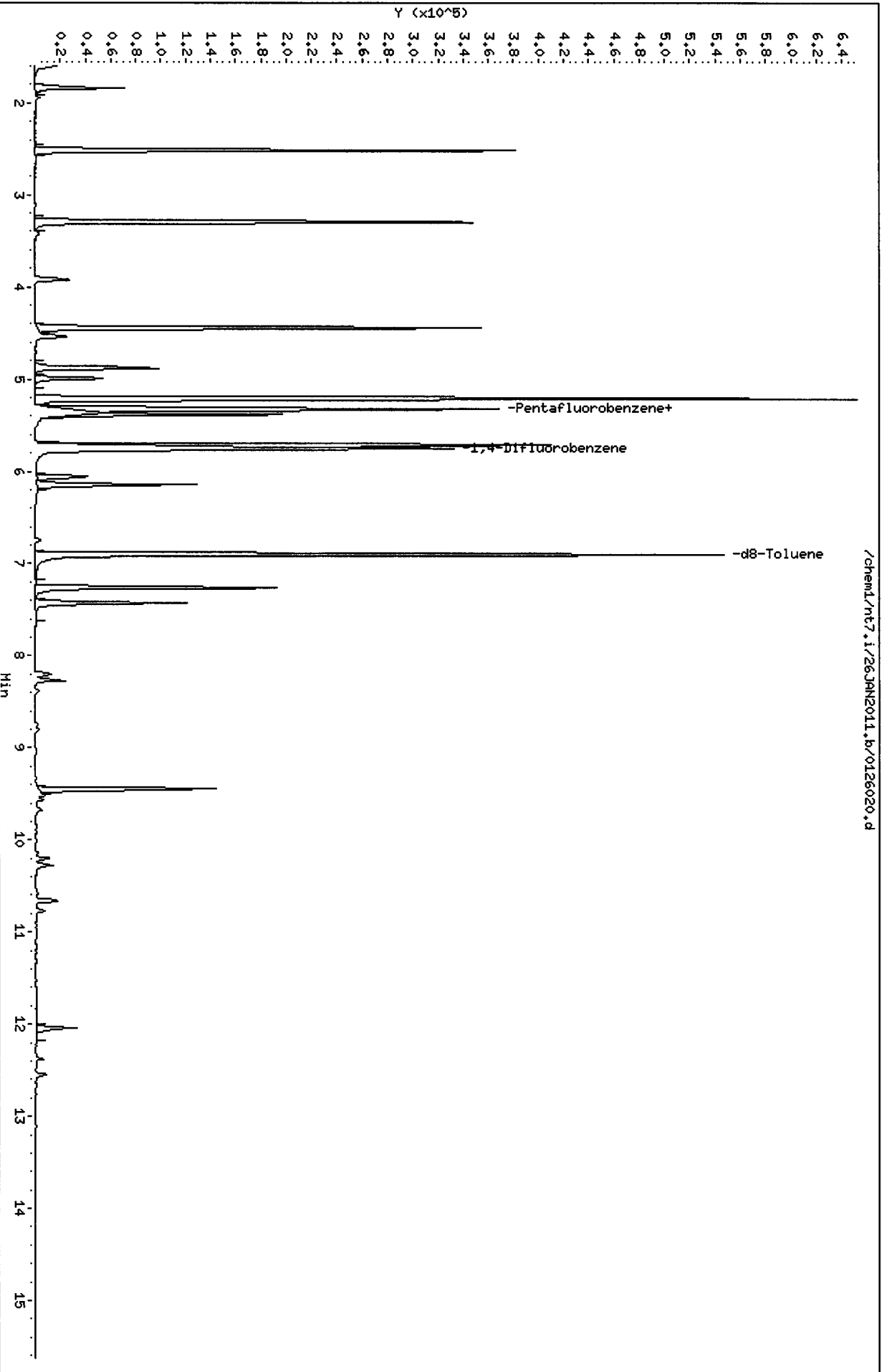
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/26JAN2011.b/0126020.d



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CO-ELUTION SUMMARY FOR FILE - 0126020.d

Lab ID: SF76BMSD, Method: sim012511.m, Instrument: nt7.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

**SIM PAH Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: SF26, SF50, SF76



SIM PNA-Water
Separatory Funnel (3510C) (SOP # 3311S)
Low Level (0.01ppb)
Batch set up by: JH

Preparation Test SIM PNA # 6
ARI Job No(s) SF78, SF26, SF54, SF76

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD Exchange to Hexane (X2)	Turbo Vap 123	(REQ) Silica Gel Clean (1:1) Y N	Turbo Vap 123	Final Effective Volume	Volume to Lab	Comments
	SF78 MBW	Date 1/25/11	500mL					0.5mL	0.5mL	
	SBW		↓					↓	↓	
	SBW Dup.		↓					↓	↓	
	QLS		↓					↓	↓	
7	A	check	500mL							
6	B									
10	SF26 A									
12	B									
12	C									
25	D									
15	SF54 A									
16	Ams									
17	Amsd									
6	B									
	C									
6	D									
6	E									
5	F									
12	SF76 A									
13	B									
10	C									
11	D									
13	E									
11	F									
13	G									
11	H			4L						
Analyst/Date:		AR 01/25/11		1/25/11	AC 1-25-11			01/26/11	01/26/11	01/26/11

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	1	100µL	10/05/11	AR	SP
Spike	18	100µL	1/04/12	AR	SP
QLS Spike	2	50µL	1/04/12	AR	SP

Extraction Time: 1065

- SPECIAL INSTRUCTIONS: 1. Rinse all glassware with Low Level DCM. 2. Extract 3X with 30mL Low Level DCM.
3. KD (no drying column) to ~8mL at 80°. 4. Exchange (2 X with 10mL) to Low Level Hexane at 100°. 5. TurboVap.
6. Silica Clean-up=REQUIRED. 6. TurboVap. 7. Vial in Low Level DCM. 8. Post screen extracts with any color.

**SIM PAH Raw Data
Initial Calibration**

ARI Job ID: SF26, SF50, SF76



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: Low SIM curve Client ID: ARI

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): Low SIM PNA

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 01/21/11 Analysis Start Date: _____

DFTPP Tune Meets Criteria? YES/NO Internal Standard Meets Criteria? YES/NO

DDT Breakdown <20%? YES/NO/NA Method Blank In Control? YES/NO

Peak Tailing Factor ≤2? YES/NO/NA LCS / LCSD Recovery In Control? YES/NO

ICal acceptable? YES/NO CCal acceptable? YES/NO

Q flag applied? YES/NO Q flag applied? YES/NO

~~Surrogate Recovery in Control? YES/NO~~ Special Analysis Criteria Met? YES/NO/NA

Manual Integrations for ICal? YES/NO Manual Integrations for Samples? Yes/NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 parts curve. For Benzo(a)pyrene quadratic fit used.

Additional Details on Reverse: Yes No

Analyst: YE Date: 01/24/11

Reviewer: VJS Date: 1/25/11

Analytical Resources Inc.: Organics Instrument Log

NT-11 Serial No.:GC=US10140004, MS=US10481502

Date: 01/21/11 Analysis: Low SIM/ANA Analyst: YZ

GC Program: Low SIM Column No: 180397 Column Type: ZB5 msi

Instrument Tune (.U or .CT.): 10060501 EM Voltage: 2600

Calibration File: DF 0121 Curve Date: 1/21/11

IS/SS	Ical/Ccal	LCS/ICV
<u>1754-5</u>	<u>1819-2</u>	<u>1773-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt11.i/20110121.b

Time	Filename	LabID	ClientID	DF										
1516	df0121.d	DF0121		1	NO ISTDS FOUND									
1530	ic0121a.d	IC0121A		1	5.71	342549	7.87	185015	9.69	320966	12.98	212759	14.70	156605
1554	ic0121b.d	IC0121B		1	5.71	385441	7.87	205110	9.68	351105	12.98	257165	14.70	186977
1617	ic0121c.d	IC0121C		1	5.71	342785	7.87	171103	9.69	285496	12.98	187340	14.70	140074
1641	ic0121d.d	IC0121D		1	5.71	364437	7.87	193161	9.68	330240	12.98	220238	14.70	158725
1704	ic0121e.d	IC0121E		1	5.71	343807	7.87	174830	9.69	283946	12.98	171339	14.70	126579
1728	ic0121f.d	IC0121F		1	5.71	343528	7.87	178276	9.69	296912	12.98	192041	14.70	145718
1752	icv0121.d	ICV0121		1	5.71	326179	7.87	172138	9.69	295834	12.98	177727	14.70	119063
1815	se72mb.d	SE72MB		1	5.71	323747	7.87	173177	9.69	296647	12.98	198904	14.70	152361
1839	se72sb.d	SE72SB		1	5.71	358848	7.87	209041	9.69	371328	12.98	270325	14.70	206709
1902	se72sbd.d	SE72SBD		1	5.71	375521	7.87	208168	9.69	362421	12.98	238254	14.70	186272
1926	se92qlc.d	SE72QLC		1	5.71	376268	7.87	203644	9.69	356568	12.98	242979	14.70	194542
1949	se72a.d	SE72A		1	5.71	359304	7.87	200379	9.69	368275	12.98	253053	14.70	197989
2013	se72b.d	SE72B		1	5.71	415567	7.87	223803	9.69	411269	12.98	288871	14.70	215588
2037	se60a.d	SE60A		1	5.71	396949	7.87	224051	9.68	403672	12.98	316117	14.70	246135
2100	se60b.d	SE60B		1	5.71	411494	7.87	236820	9.68	390059	12.98	269182	14.69	206699
2124	se60c.d	SE60C		1	5.71	463296	7.87	284747	9.68	492543	12.98	318979	14.71	247632

none

YZ 01/24/11

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC ANA
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt11.i/20110121.b

ARI Job No.: IC01 Method: lowsim.m Instrument: nt11.i Date: 21-JAN-2011

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1530	ic0121a.d	IC0121A		1	Acenaphthene, Phenanthrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, 2-Methylnaphthalene-d10, Dibenzo(a,h)anthracene-d14,
1554	ic0121b.d	IC0121B		1	Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene-d14,
1617	ic0121c.d	IC0121C		1	Acenaphthylene, Phenanthrene-d10, Fluoranthene, Chrysene-d12, Perylene-d12, Total Benzofluoranthenes,
1641	ic0121d.d	IC0121D		1	Phenanthrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene-d14,
1704	ic0121e.d	IC0121E		1	Chrysene, Benzo(g,h,i)perylene, Total Benzofluoranthenes, 2-Methylnaphthalene-d10,
1728	ic0121f.d	IC0121F		1	Acenaphthene, Phenanthrene-d10, Phenanthrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Total Benzofluoranthenes, Dibenzo(a,h)anthracene-d14,

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt11.i/20110121.b/lowsim.m
Batch File: /chem3/nt11.i/20110121.b
Inst ID: nt11.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: ic0121a ic0121b ic0121c ic0121d ic0121e ic0121f
INJ. DATE: 21-JAN-2011 21-JAN-2011 21-JAN-2011 21-JAN-2011 21-JAN-2011 21-JAN-2011
INJ. TIME: 15:30 15:54 16:17 16:41 17:04 17:28

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 DS-Phenol	+++++	+++++	+++++	+++++	+++++	+++++	3.150	2.900-3.400	+++++	+++++
2 Phenol	+++++	+++++	+++++	+++++	+++++	+++++	3.160	2.910-3.410	+++++	+++++
3 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	6.639	6.389-6.889	+++++	+++++
* 4 Naphthalene-d8	5.709	5.709	5.709	5.709	5.709	5.709	5.709	5.459-5.959	5.709	0.000
5 Naphthalene	5.732	5.732	5.732	5.732	5.732	5.732	5.732	5.482-5.982	5.732	0.000
\$ 6 2-Methylnaphthalene-d1	6.537	6.526	6.537	6.526	6.537	6.537	6.537	6.287-6.787	6.533	0.006
7 2-Methylnaphthalene	6.572	6.560	6.572	6.560	6.572	6.572	6.572	6.322-6.822	6.568	0.006
8 1-Methylnaphthalene	6.698	6.698	6.698	6.698	6.698	6.698	6.698	6.448-6.948	6.698	0.000
9 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	10.433	10.183-10.683	+++++	+++++
10 Acenaphthylene	7.680	7.680	7.680	7.680	7.680	7.680	7.680	7.430-7.930	7.680	0.000
* 11 Acenaphthene-d10	7.867	7.867	7.867	7.868	7.867	7.867	7.867	7.617-8.117	7.867	0.000
12 Acenaphthene	7.908	7.908	7.908	7.894	7.908	7.908	7.908	7.658-8.158	7.905	0.005
13 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	11.543	11.293-11.793	+++++	+++++
14 Dibenzofuran	8.109	8.109	8.122	8.109	8.109	8.109	8.109	7.859-8.359	8.111	0.005
15 Fluorene	8.524	8.524	8.538	8.524	8.524	8.524	8.524	8.274-8.774	8.527	0.005
\$ 16 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	12.499	12.249-12.749	+++++	+++++
17 Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	13.381	13.131-13.631	+++++	+++++

Reviewer 1 Y2 Date: 01/24/11
Reviewer 2 V17 Date: 1/25/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt11.i/20110121.b/lowsim.m
Batch File: /chem3/nt11.i/20110121.b
Inst ID: nt11.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 18 Phenanthrene-d10	9.691	9.677	9.691	9.677	9.691	9.691	9.691	9.441-9.941	9.686	0.007
19 Phenanthrene	9.718	9.704	9.718	9.704	9.718	9.704	9.718	9.468-9.968	9.711	0.007
20 Anthracene	9.771	9.758	9.771	9.771	9.771	9.771	9.771	9.521-10.021	9.769	0.005
21 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	14.153	13.903-14.403	+++++	+++++
22 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	14.533	14.283-14.783	+++++	+++++
\$ 23 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	14.682	14.432-14.932	+++++	+++++
24 Fluoranthene	11.192	11.192	11.206	11.193	11.192	11.192	11.192	10.942-11.442	11.195	0.005
25 Pyrene	11.474	11.461	11.474	11.474	11.474	11.474	11.474	11.224-11.724	11.472	0.005
26 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	16.528	16.278-16.778	+++++	+++++
27 Bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	17.320	17.070-17.570	+++++	+++++
28 Benzo(a)anthracene	12.963	12.949	12.963	12.949	12.963	12.963	12.963	12.713-13.213	12.958	0.007
* 29 Chrysene-d12	12.976	12.976	12.976	12.976	12.976	12.976	12.976	12.726-13.226	12.976	0.000
30 Chrysene	13.003	13.003	13.016	13.003	13.016	13.003	13.003	12.753-13.253	13.007	0.007
31 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	18.607	18.357-18.857	+++++	+++++
43 Total Benzofluoranthene	14.251	14.251	14.262	14.251	14.251	14.251	14.251	14.001-14.501	14.253	0.005
34 Benzo(a)pyrene	14.619	14.619	14.631	14.619	14.631	14.619	14.619	14.369-14.869	14.623	0.006
* 35 Perylene-d12	14.700	14.700	14.700	14.700	14.700	14.700	14.700	14.450-14.950	14.700	0.000
\$ 36 Dibenzo(a,h)anthracene	16.268	16.268	16.295	16.268	16.281	16.268	16.268	16.018-16.518	16.275	0.011
37 Indeno(1,2,3-cd)pyrene	16.308	16.295	16.335	16.308	16.322	16.308	16.308	16.058-16.558	16.313	0.014
38 Dibenzo(a,h)anthracene	16.322	16.322	16.349	16.322	16.335	16.322	16.322	16.072-16.572	16.328	0.011
39 Benzo(g,h,i)perylene	16.778	16.764	16.791	16.778	16.791	16.778	16.778	16.528-17.028	16.780	0.010

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Averaged

Start Cal Date : 21-JAN-2011 15:30
 End Cal Date : 21-JAN-2011 17:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt11.i/20110121.b/lowsim.m
 Cal Date : 24-Jan-2011 13:55 yev
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/nt11.i/20110121.b/ic0121c.d
 Level 2: /chem3/nt11.i/20110121.b/ic0121e.d
 Level 3: /chem3/nt11.i/20110121.b/ic0121f.d
 Level 4: /chem3/nt11.i/20110121.b/ic0121a.d
 Level 5: /chem3/nt11.i/20110121.b/ic0121d.d
 Level 6: /chem3/nt11.i/20110121.b/ic0121b.d

Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
2 Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Naphthalene	0.84158	0.84117	0.78823	0.75140	0.84077	0.79388	0.80950	4.649
7 2-Methylnaphthalene	0.41151	0.45315	0.45145	0.45995	0.50766	0.49996	0.46395	7.618
8 1-Methylnaphthalene	0.47943	0.45370	0.43371	0.45056	0.50725	0.48887	0.46892	5.869
9 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Acenaphthylene	1.16199	1.24132	1.15597	1.28035	1.44438	1.49403	1.29634	11.020
12 Acenaphthene	0.88824	0.91453	0.82809	0.84807	0.91848	0.91979	0.88620	4.459
13 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Dibenzofuran	1.29898	1.32437	1.23097	1.24866	1.41010	1.36480	1.31298	5.200
15 Fluorene	0.83552	0.85942	0.80779	0.85707	0.97052	0.96080	0.88185	7.665
17 Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Phenanthrene	0.76386	0.84999	0.76054	0.77489	0.85678	0.83642	0.80708	5.608
20 Anthracene	0.75861	0.79502	0.69933	0.73300	0.87600	0.80860	0.77843	8.006
21 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Fluoranthene	0.66614	0.71671	0.66100	0.77038	0.84040	0.91412	0.76146	13.237
25 Pyrene	1.10313	1.25933	1.13249	1.26044	1.36352	1.31169	1.23843	8.192
26 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Benzo(a)anthracene	0.67706	0.76653	0.67501	0.88590	0.89451	0.93821	0.80620	14.363

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-2011 15:30
 End Cal Date : 21-JAN-2011 17:28
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt11.i/20110121.b/lowsim.m
 Cal Date : 24-Jan-2011 13:55 yev
 Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
30 Chrysene	1.20957	1.24156	1.07655	1.04764	1.26846	1.20692	1.17512	7.733
31 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Total Benzofluoranthenes	0.96171	1.12562	0.96987	1.17420	1.30297	1.32425	1.14310	13.696
34 Benzo(a)pyrene	0.60925	0.77845	0.67186	0.92071	1.03560	1.08622	0.85035	22.928 <-
37 Indeno(1,2,3-cd)pyrene	0.81700	1.10748	0.96149	1.19097	1.35044	1.38369	1.13518	19.436
38 Dibenzo(a,h)anthracene	0.67050	0.79384	0.69790	0.87984	0.97842	1.02327	0.84063	17.270
39 Benzo(g,h,i)perylene	0.87511	1.01846	0.88437	1.13759	1.21277	1.24342	1.06195	15.169
\$ 1 D5-Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 6 2-Methylnaphthalene-d10	0.45054	0.48142	0.46649	0.47178	0.50788	0.49976	0.47965	4.459
\$ 16 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 23 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 36 Dibenzo(a,h)anthracene-d14	0.51501	0.67657	0.58004	0.76840	0.83920	0.85686	0.70601	19.790

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-2011 15:30
 End Cal Date : 21-JAN-2011 17:28
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method File : /chem3/nt11.i/20110121.b/lowsim.m
 Cal Date : 24-Jan-2011 13:55 yev

Calibration File Names:
 Level 1: /chem3/nt11.i/20110121.b/ic0121c.d
 Level 2: /chem3/nt11.i/20110121.b/ic0121e.d
 Level 3: /chem3/nt11.i/20110121.b/ic0121f.d
 Level 4: /chem3/nt11.i/20110121.b/ic0121a.d
 Level 5: /chem3/nt11.i/20110121.b/ic0121d.d
 Level 6: /chem3/nt11.i/20110121.b/ic0121b.d

Compound	10	50	100	250	500	1000	Curve	b	Coefficients ml	m2	\$RSD or R ²
2 Phenol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
3 Hexachloroethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
5 Naphthalene	0.84158	0.84117	0.78823	0.75140	0.84077	0.79388	AVRG		0.80350		4.64879
7 2-Methylnaphthalene	0.41151	0.45315	0.45145	0.45995	0.50766	0.45996	AVRG		0.46395		7.61812
8 1-Methylnaphthalene	0.47943	0.45370	0.43371	0.45056	0.50725	0.48887	AVRG		0.46892		5.86878
9 Dimethylphtalate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
10 Acenaphthylene	1.16199	1.24132	1.15597	1.28035	1.44438	1.49403	AVRG		1.29634		11.01969
12 Acenaphthene	0.88824	0.91453	0.82809	0.84807	0.91848	0.91979	AVRG		0.88620		4.45946
13 Diethylphtalate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
14 Dibenzofuran	1.29898	1.32437	1.23097	1.24866	1.41010	1.36480	AVRG		1.31298		5.19993
15 Fluorene	0.83552	0.85942	0.80779	0.85707	0.97052	0.96080	AVRG		0.88185		7.66478
17 Pentachlorophenol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
19 Phenanthrene	0.76386	0.84999	0.76054	0.77489	0.85678	0.83642	AVRG		0.80708		5.60792
20 Anthracene	0.75861	0.79502	0.69933	0.73300	0.87600	0.80860	AVRG		0.77843		8.00612

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-2011 15:30
 End Cal Date : 21-JAN-2011 17:28
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt11.i/20110121.b/lowsim.m
 Cal Date : 24-Jan-2011 13:55 yev

Compound	Level						Curve	b	Coefficients		%RSD or R ²
	10	50	100	250	500	1000			m1	m2	
21 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
22 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
24 Fluoranthene	0.66614	0.71671	0.66100	0.77038	0.84040	0.91412	AVRG	0.76146		13.23663	
25 Pyrene	1.10313	1.25933	1.13249	1.26044	1.36352	1.31169	AVRG	1.23843		8.19216	
26 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
27 Bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
28 Benzo(a)anthracene	0.67706	0.76653	0.67501	0.88590	0.89451	0.93821	AVRG	0.80620		14.36252	
30 Chrysene	1.20957	1.24156	1.07655	1.04764	1.26846	1.20692	AVRG	1.17512		7.73332	
31 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
43 Total Benzofluoranthenes	0.96171	1.12562	0.96987	1.17420	1.30297	1.32425	AVRG	1.14310		13.69637	
34 Benzo(a)pyrene	4267	24634	48951	180235	410941	1015493	QUAD	1.06731	-0.02751	0.99882	
37 Indeno(1,2,3-cd)pyrene	0.81700	1.10748	0.96149	1.19097	1.35044	1.38369	AVRG	1.13518		19.43552	
38 Dibenzo(a,h)anthracene	0.67050	0.79384	0.69790	0.87984	0.97842	1.02327	AVRG	0.84063		17.27035	
39 Benzo(g,h,i)perylene	0.87511	1.01846	0.88437	1.13759	1.21277	1.24342	AVRG	1.06195		15.16856	
1 DS-Phenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
6 2-Methylnaphthalene-d10	0.45054	0.48142	0.46649	0.47178	0.50788	0.49976	AVRG	0.47965		4.45876	
16 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
23 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+00		0.000e+00	
36 Dibenzo(a,h)anthracene-d14	0.51501	0.67657	0.58004	0.76840	0.83920	0.85686	AVRG	0.70601		19.78953	

11 10 9 8 7 6 5 4 3 2 1

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-2011 15:30
End Cal Date : 21-JAN-2011 17:28
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt11.i/20110121.b/lowsim.m
Cal Date : 24-Jan-2011 13:55 yev

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

710055 5125

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

yz 01/24/11

Data file : /chem3/nt11.i/20110121.b/ic0121a.d
 Lab Smp Id: IC0121A
 Inj Date : 21-JAN-2011 15:30
 Operator : yz
 Smp Info : IC0121A
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110121.b/lowsim.m
 Meth Date : 24-Jan-2011 14:10 yev
 Cal Date : 21-JAN-2011 15:30
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt11.i
 Quant Type: ISTD
 Cal File: ic0121a.d
 Calibration Sample, Level: 4
 Compound Sublist: pna1mn.sub

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 4 Naphthalene-d8	136	==	5.709	5.709	(1.000)	342549	200.000		
5 Naphthalene	128		5.732	5.732	(1.004)	321741	250.000	232	
\$ 6 2-Methylnaphthalene-d10	152		6.537	6.526	(1.145)	202010	250.000	246 (M)	
7 2-Methylnaphthalene	142		6.572	6.560	(1.151)	196944	250.000	248	
8 1-Methylnaphthalene	142		6.698	6.698	(1.173)	192922	250.000	240	
10 Acenaphthylene	152		7.680	7.680	(0.976)	296105	250.000	247	
* 11 Acenaphthene-d10	164		7.867	7.867	(1.000)	185015	200.000		
12 Acenaphthene	153		7.908	7.894	(1.005)	196131	250.000	239 (M)	
14 Dibenzofuran	168		8.109	8.109	(1.031)	288777	250.000	238	
15 Fluorene	166		8.524	8.524	(1.083)	198213	250.000	243	
* 18 Phenanthrene-d10	188		9.691	9.691	(1.000)	320966	200.000		
19 Phenanthrene	178		9.718	9.704	(1.003)	310891	250.000	240 (M)	
20 Anthracene	178		9.771	9.771	(1.008)	294084	250.000	235	
24 Fluoranthene	202		11.192	11.192	(1.155)	309081	250.000	253	
25 Pyrene	202		11.474	11.474	(0.884)	335212	250.000	254	
28 Benzo(a)anthracene	228		12.963	12.963	(0.999)	235603	250.000	275	
* 29 Chrysene-d12	240		12.976	12.976	(1.000)	212759	200.000		
30 Chrysene	228		13.003	13.003	(1.002)	278618	250.000	223	
43 Total Benzofluoranthenes	252		14.251	14.251	(0.969)	459715	500.000	514	
34 Benzo(a)pyrene	252		14.619	14.619	(0.995)	180235	250.000	271	
* 35 Perylene-d12	264		14.700	14.700	(1.000)	156605	200.000		
37 Indeno(1,2,3-cd)pyrene	276		16.308	16.308	(1.109)	233139	250.000	262 (M)	
\$ 36 Dibenzo(a,h)anthracene-d14	292		16.268	16.268	(1.107)	150419	250.000	272 (M)	
38 Dibenzo(a,h)anthracene	278		16.322	16.322	(1.110)	172235	250.000	262 (M)	
39 Benzo(g,h,i)perylene	276		16.778	16.778	(1.141)	222691	250.000	268	

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: ic0121a.d
 Lab Smp Id: IC0121A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

Calibration Date: 21-JAN-2011
 Calibration Time: 17:52
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	342549	0.00
11 Acenaphthene-d10	185015	92508	370030	185015	0.00
18 Phenanthrene-d10	320966	160483	641932	320966	0.00
29 Chrysene-d12	212759	106380	425518	212759	0.00
35 Perylene-d12	156605	78302	313210	156605	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	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.

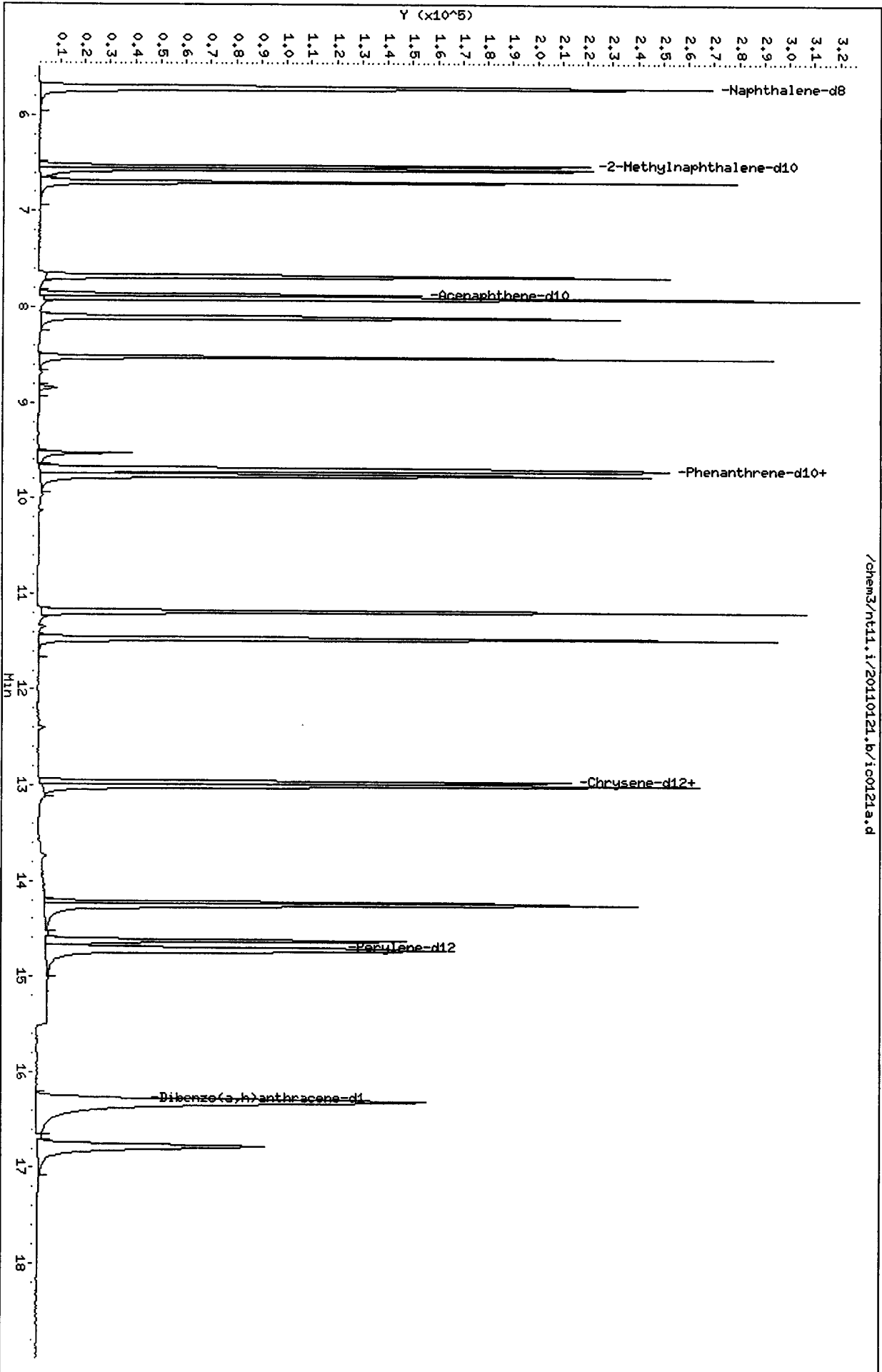
Data File: /chem3/nt11.i/20110121.b/ic0121a.d
Date: 21-JAN-2011 15:30

Client ID:
Sample Info: IC0121A

Column phase: ZB-5msi

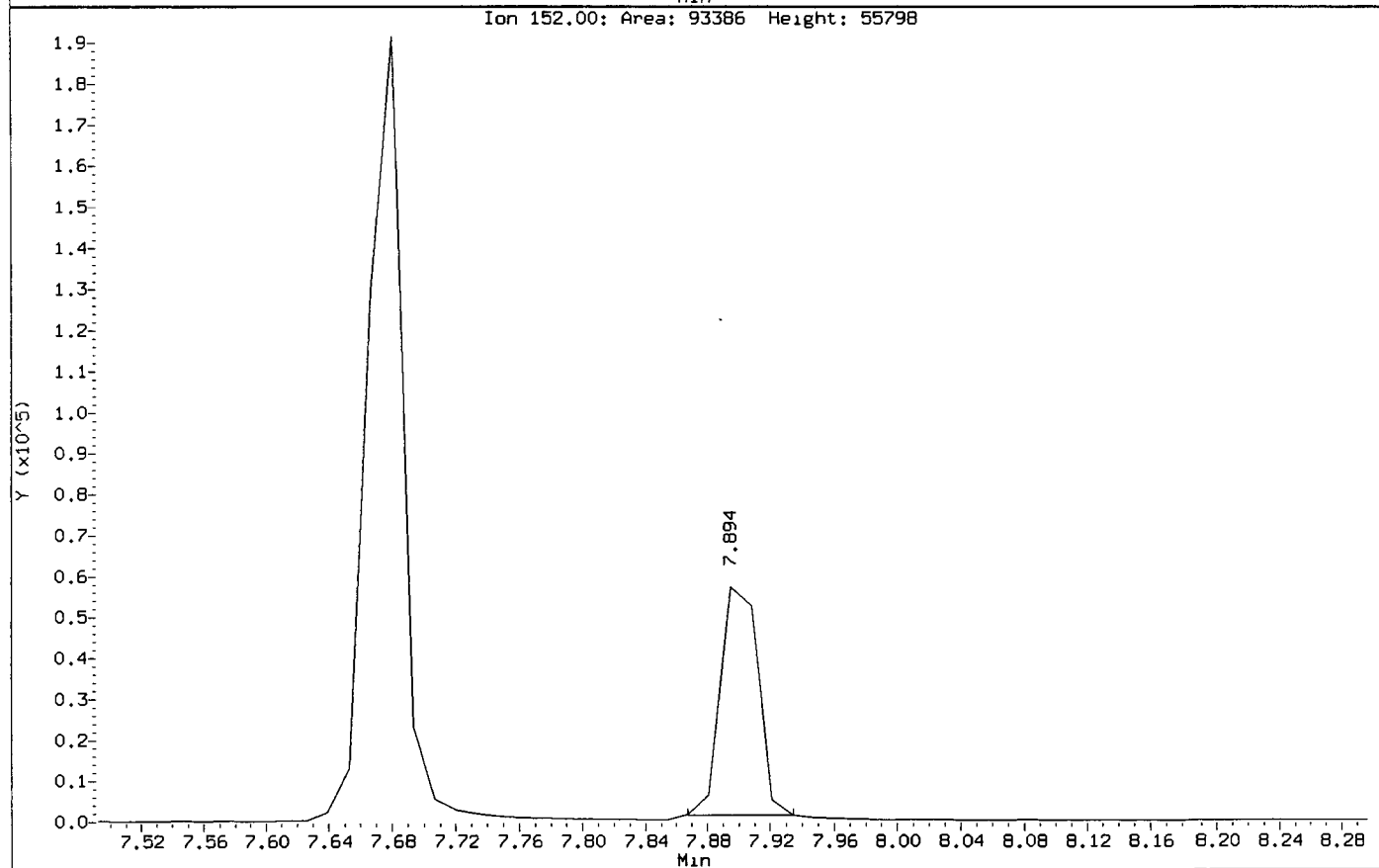
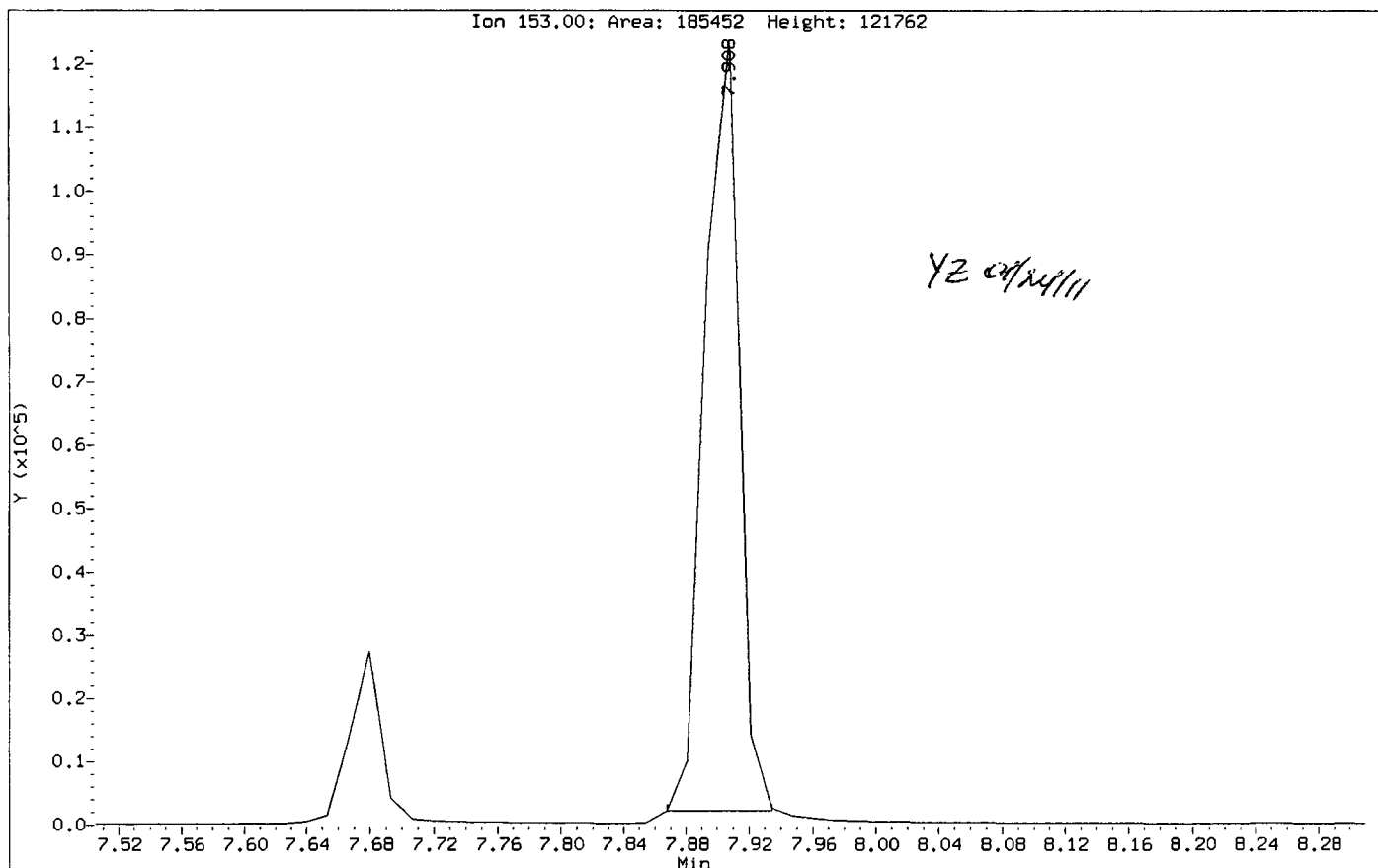
Instrument: nt11.i
Operator: jz
Column diameter: 0.25

/chem3/nt11.i/20110121.b/ic0121a.d



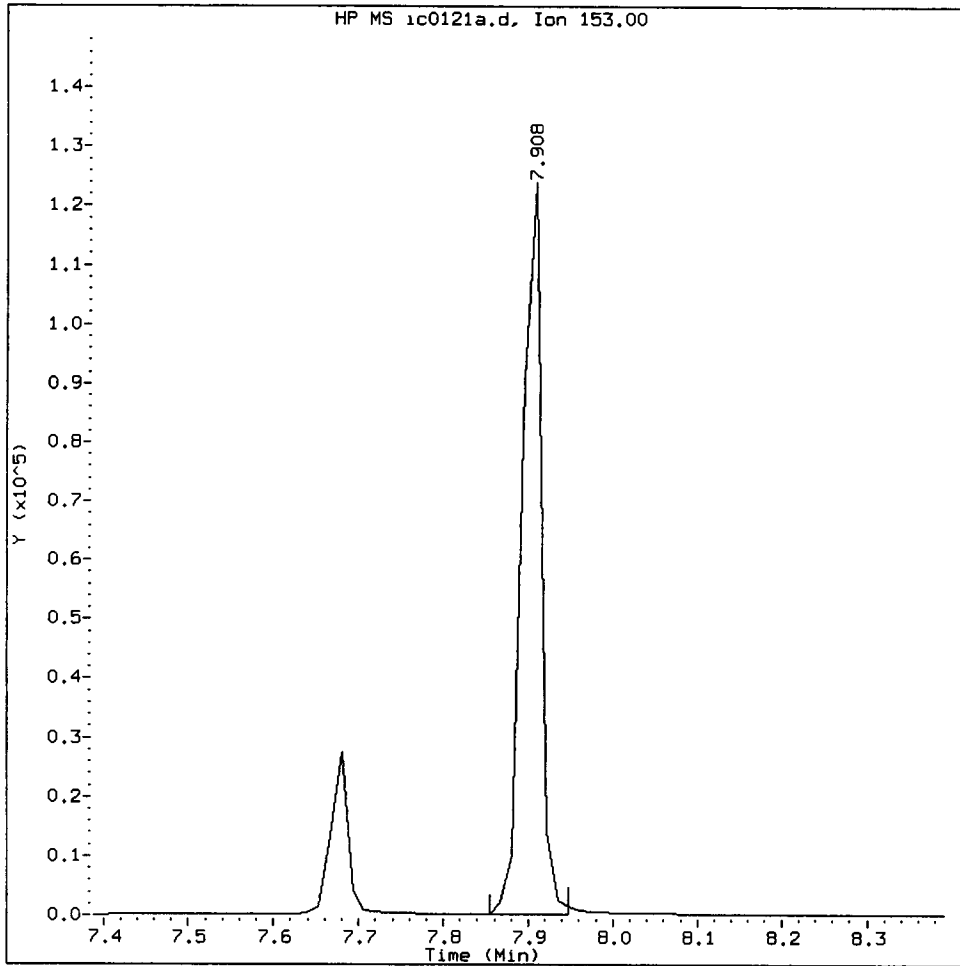
Data File: /chem3/nt11.1/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.1
Client Sample ID:

Compound: Acenaphthene
CAS Number:



IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

Acenaphthene Amount: 239.24 Area: 196131



MANUAL INTEGRATION for Acenaphthene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

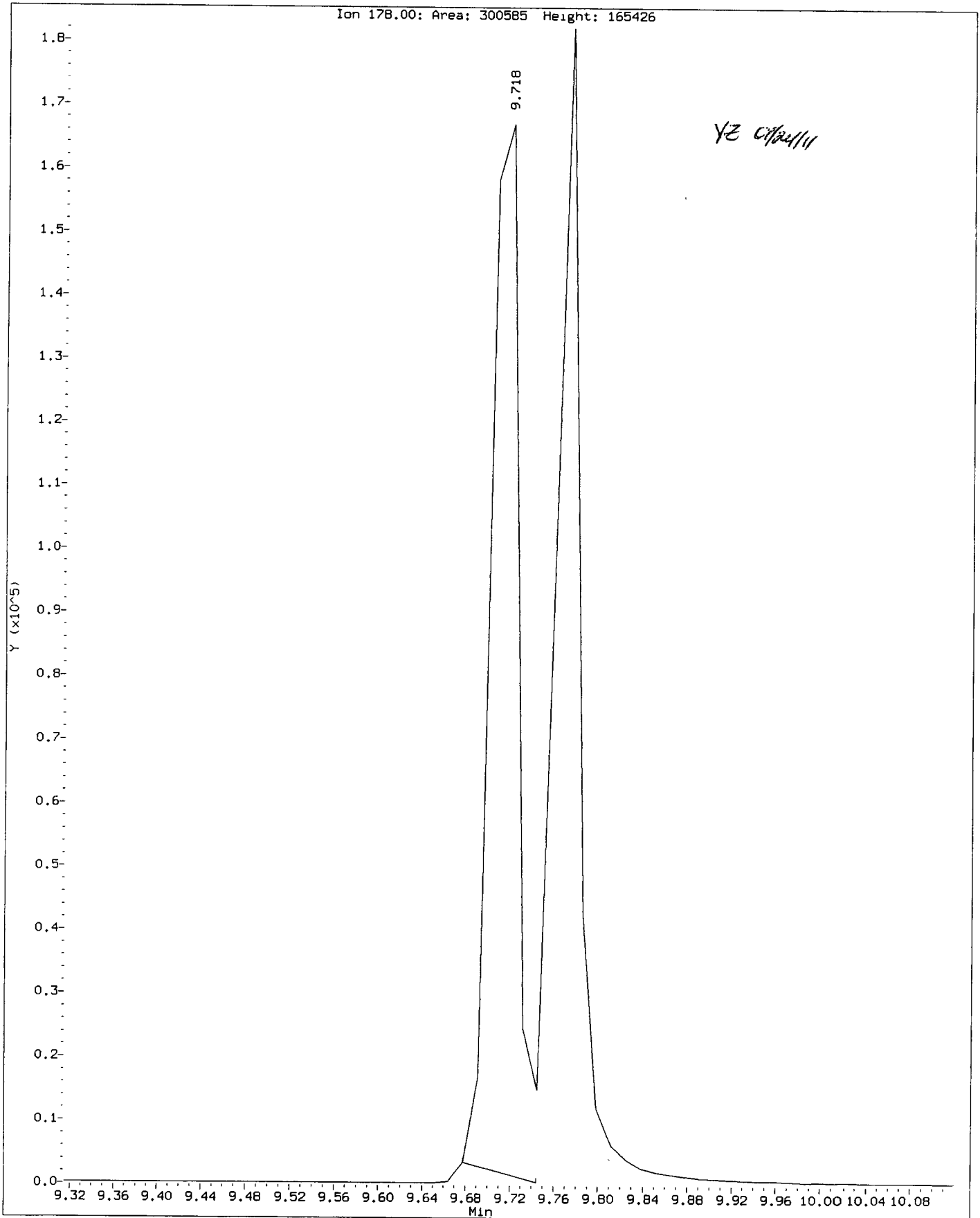
5. Other _____

Analyst: YZ

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.1
Client Sample ID:

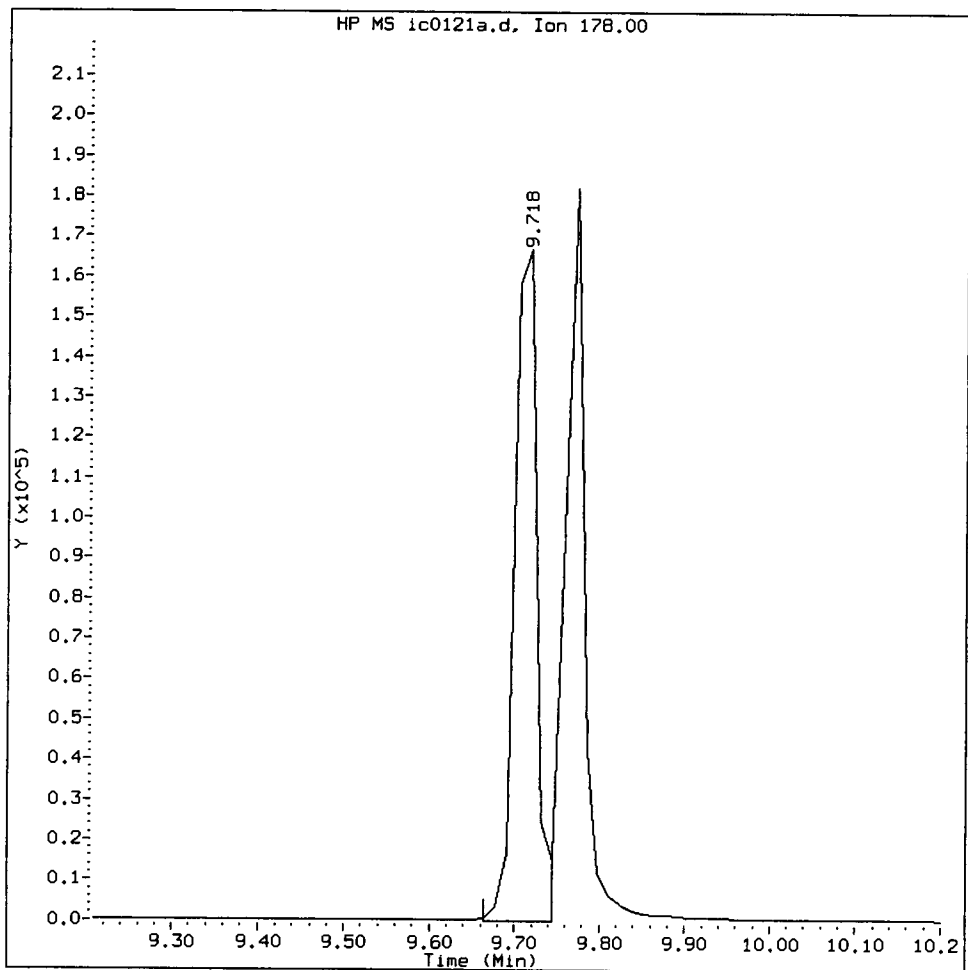
Compound: Phenanthrene
CAS Number:



SF 26 : 00624

IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

Phenanthrene Amount: 240.03 Area: 310891



MANUAL INTEGRATION for Phenanthrene

1. Baseline correction ✓
2. Poor chromatography ✓
3. Peak not found
4. Totals calculation

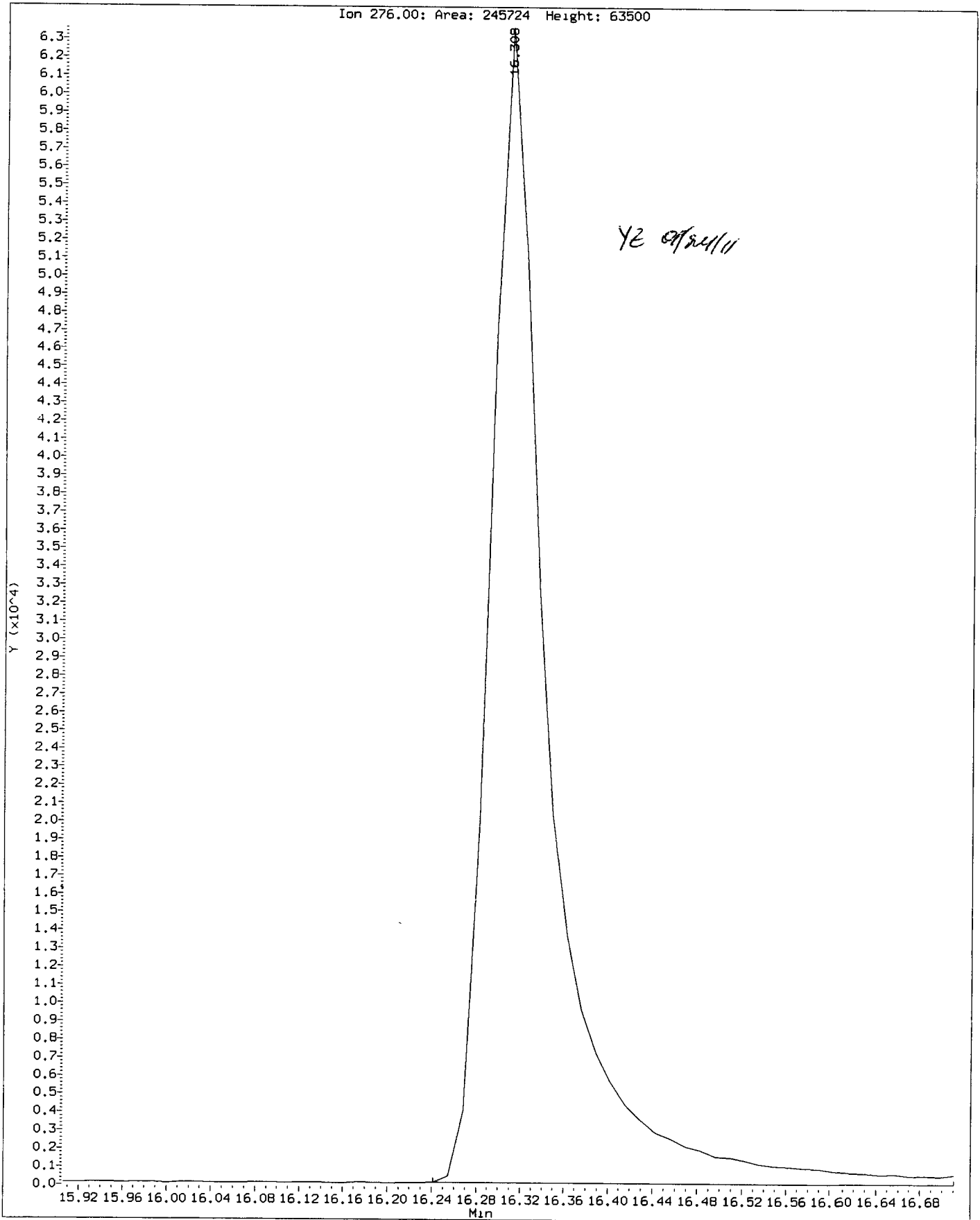
5. Other _____

Analyst: Y2

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.1
Client Sample ID:

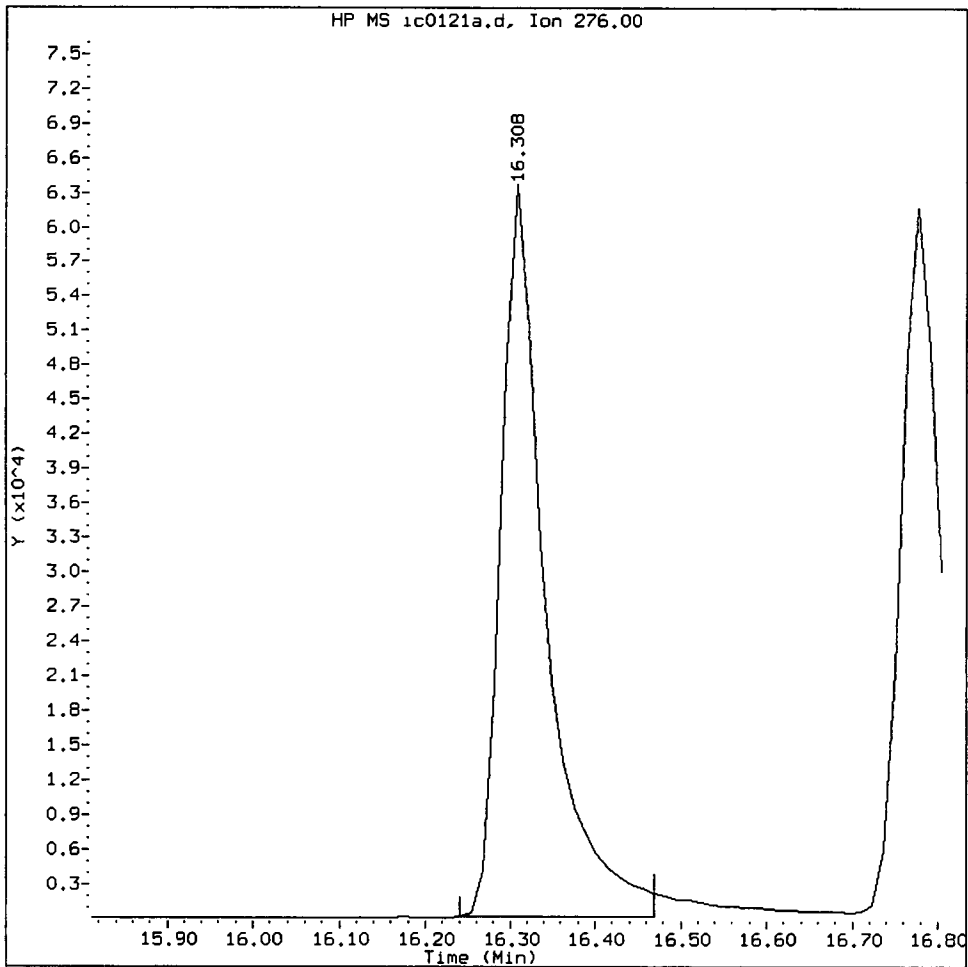
Compound: Indeno(1,2,3-cd)pyrene
CAS Number:



SF26:00626

IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

Indeno(1,2,3-cd)pyrene Amount: 262.29 Area: 233139



MANUAL INTEGRATION for Indeno(1,2,3-cd)pyrene

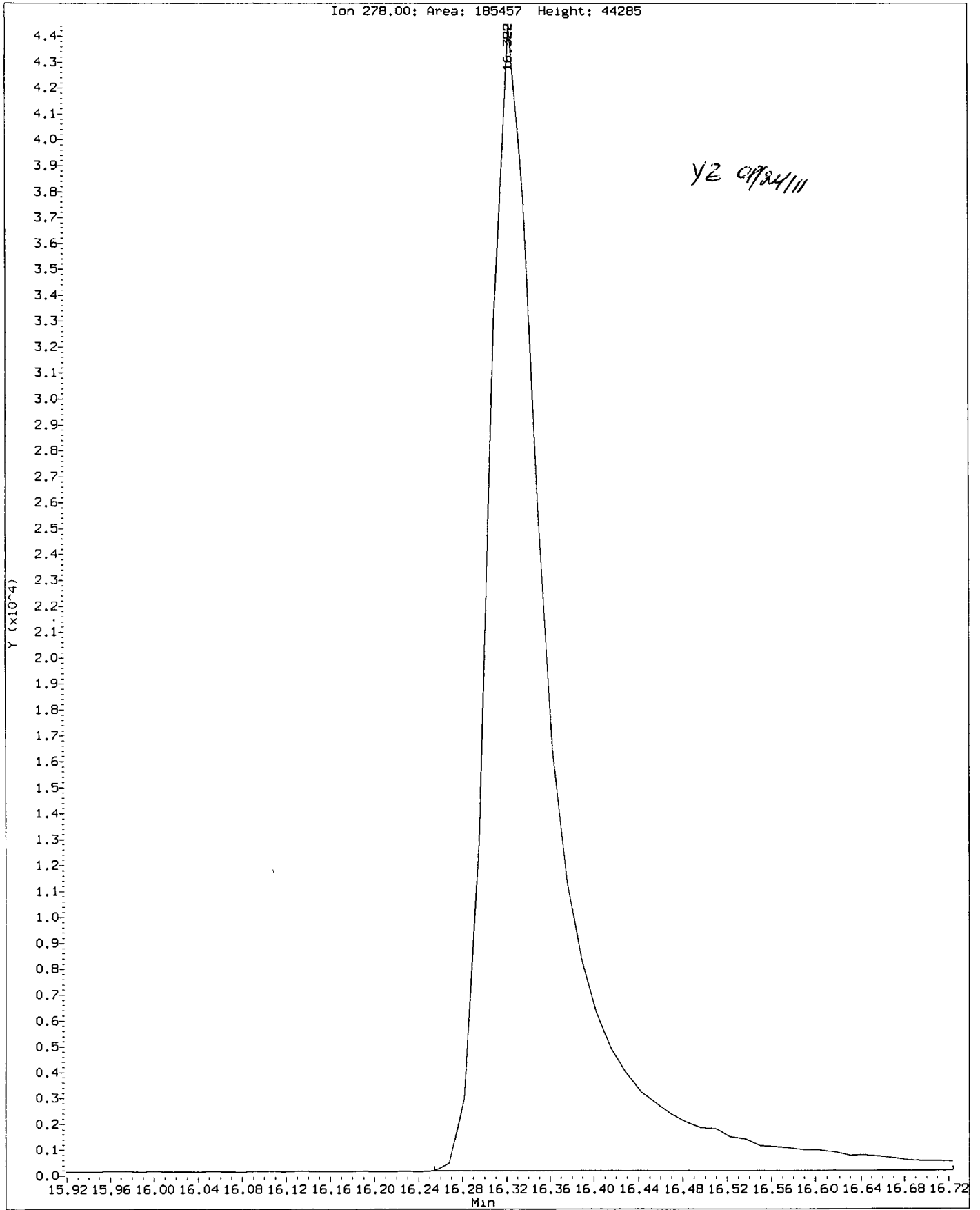
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YZ

Date: 09/24/11

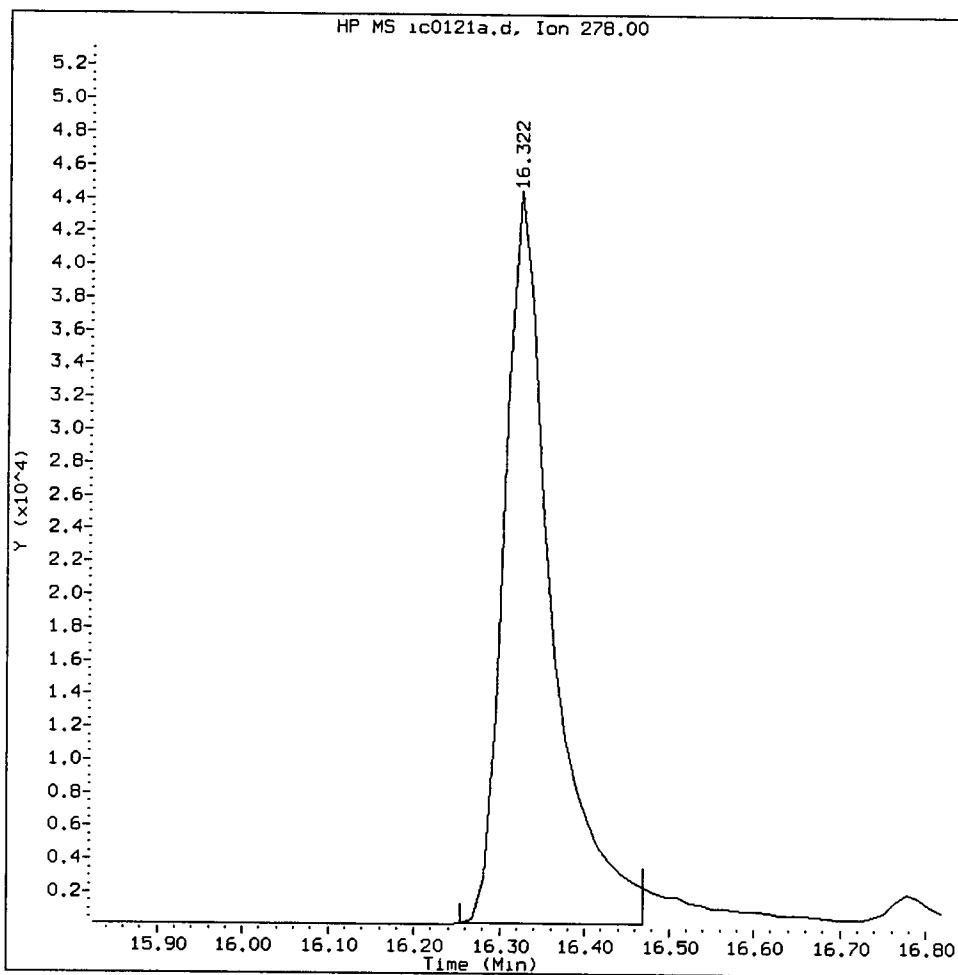
Data File: /chem3/nt11.1/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.1
Client Sample ID:

Compound: Dibenzo(a,h)anthracene
CAS Number:



IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

Dibenzo(a,h)anthracene Amount: 261.66 Area: 172235



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

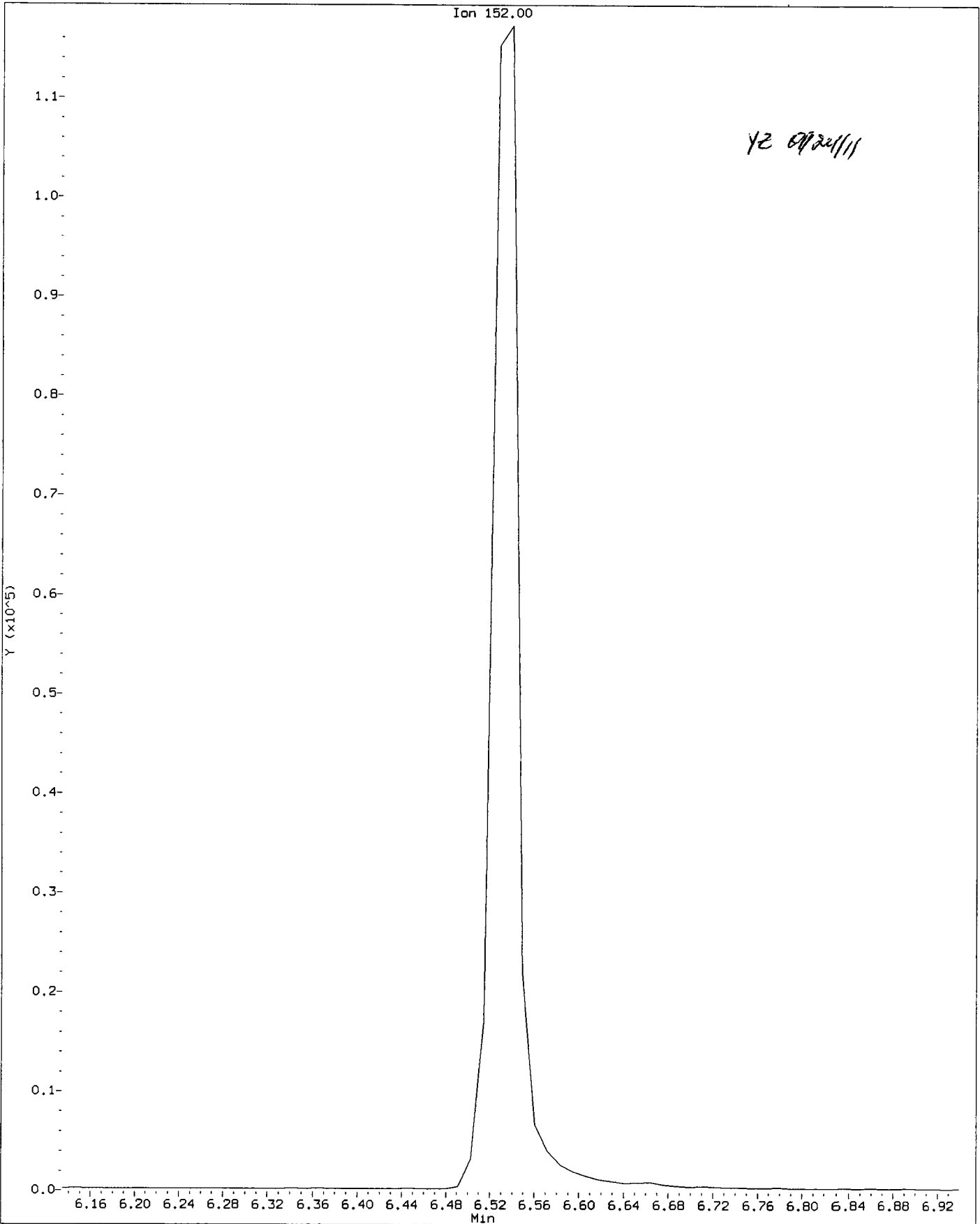
5. Other _____

Analyst: YZ

Date: 1/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.1
Client Sample ID:

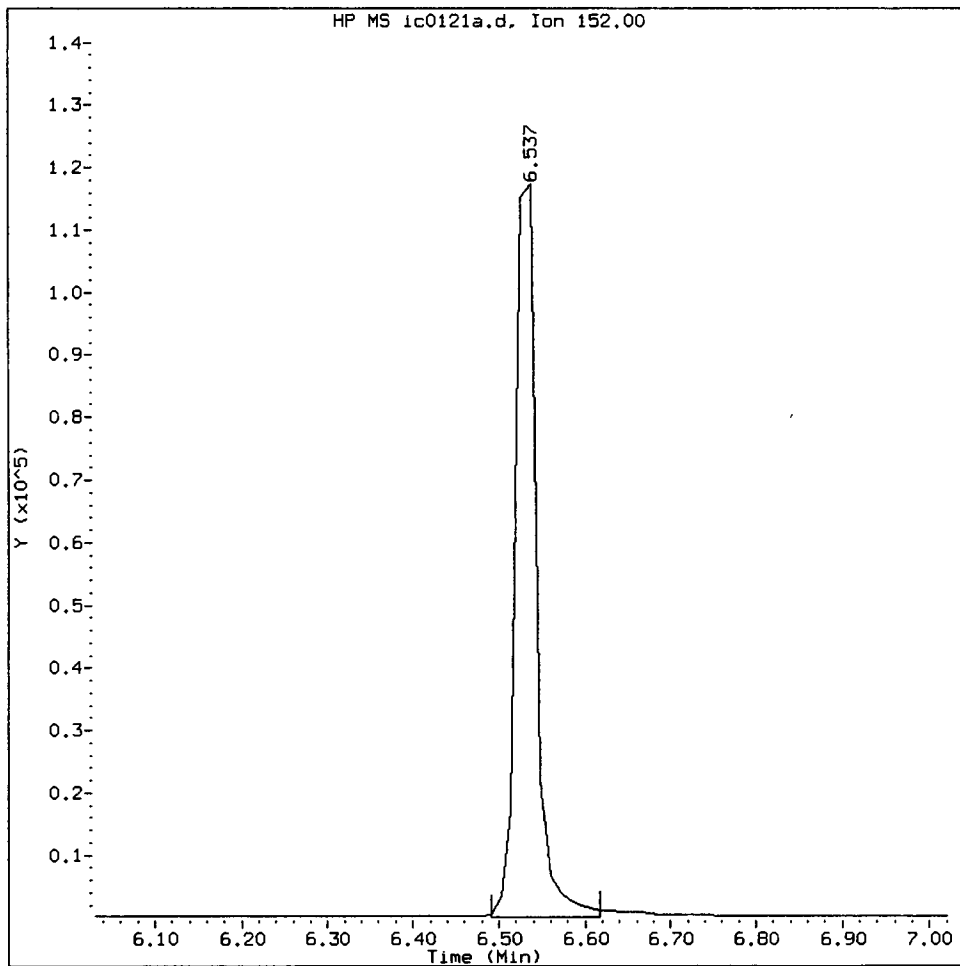
Compound: 2-Methylnaphthalene-d10
CAS Number:



SF26 : 00630

IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

2-Methylnaphthalene-d10 Amount: 245.90 Area: 202010



MANUAL INTEGRATION for 2-Methylnaphthalene-d10

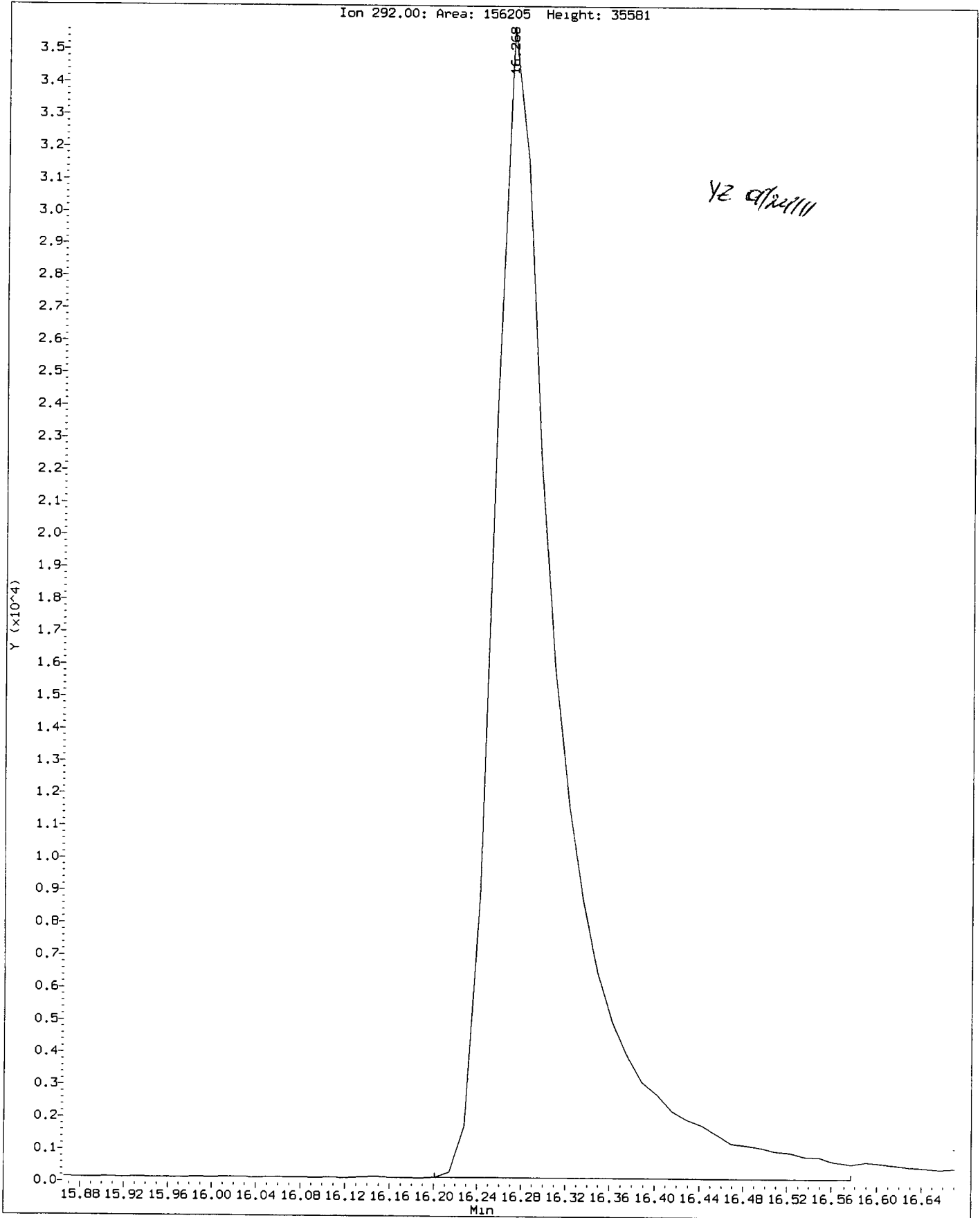
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: YZ

Date: 1/24/11

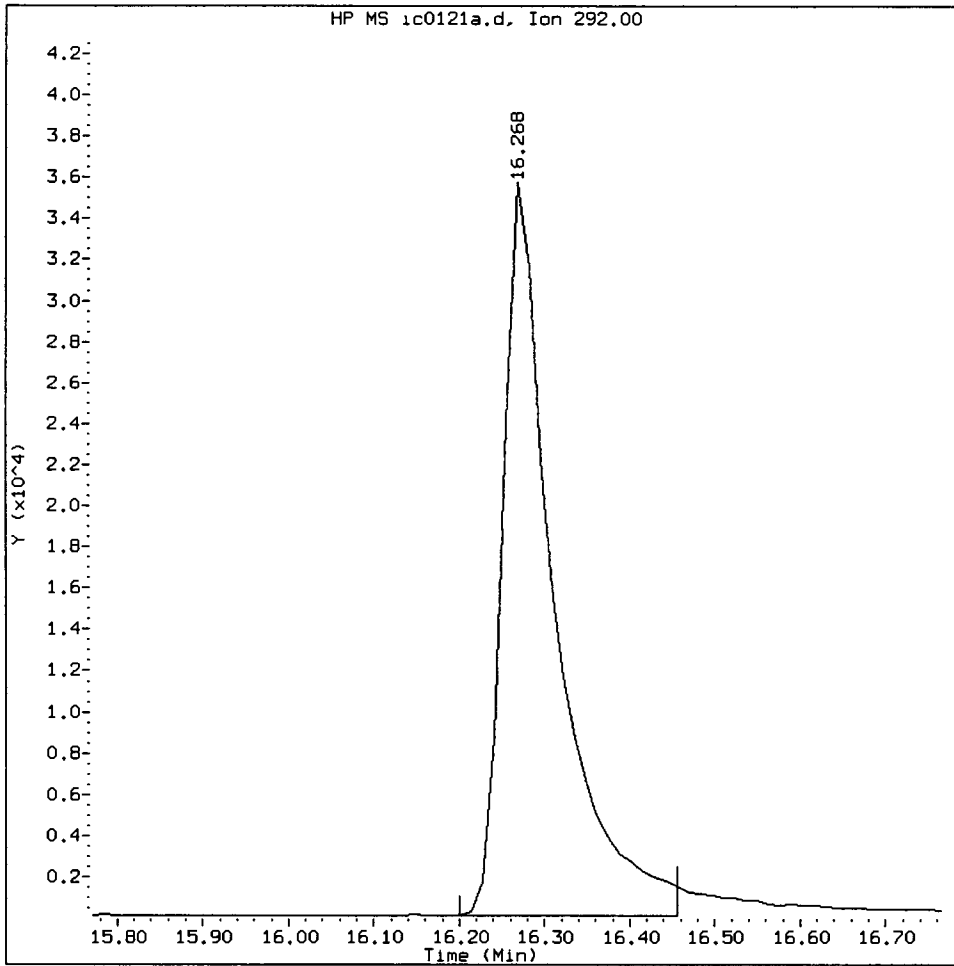
Data File: /chem3/nt11.i/20110121.b/ic0121a.d
Injection Date: 21-JAN-2011 15:30
Instrument: nt11.i
Client Sample ID:

Compound: Dibenzo(a,h)anthracene-d14
CAS Number:



IC0121A, /chem3/nt11.i/20110121.b/ic0121a.d

Dibenzo(a,h)anthracene-d14 Amount: 272.09 Area: 150419



MANUAL INTEGRATION for Dibenzo(a,h)anthracene-d14

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: yz

Date: 1/24/11

CO-ELUTION SUMMARY FOR FILE - ic0121a.d

Lab ID: IC0121A, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/24/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110121.b/ic0121b.d
Lab Smp Id: IC0121B
Inj Date : 21-JAN-2011 15:54
Operator : yz
Smp Info : IC0121B
Misc Info :
Comment :
Method : /chem3/nt11.i/20110121.b/lowsim.m
Meth Date : 24-Jan-2011 14:10 yev
Cal Date : 21-JAN-2011 15:54
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt11.i
Quant Type: ISTD
Cal File: ic0121b.d
Calibration Sample, Level: 6
Compound Sublist: pnalmn.sub

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)
* 4 Naphthalene-d8	136	====	5.709	5.709	(1.000)	385441	200.000	
5 Naphthalene	128		5.732	5.732	(1.004)	1529969	1000.00	981
\$ 6 2-Methylnaphthalene-d10	152		6.526	6.526	(1.143)	963142	1000.00	1040
7 2-Methylnaphthalene	142		6.560	6.560	(1.149)	963517	1000.00	1080
8 1-Methylnaphthalene	142		6.698	6.698	(1.173)	942159	1000.00	1040
10 Acenaphthylene	152		7.680	7.680	(0.976)	1532204	1000.00	1150
* 11 Acenaphthene-d10	164		7.867	7.867	(1.000)	205110	200.000	
12 Acenaphthene	153		7.908	7.894	(1.005)	943295	1000.00	1040
14 Dibenzofuran	168		8.109	8.109	(1.031)	1399672	1000.00	1040
15 Fluorene	166		8.524	8.524	(1.083)	985345	1000.00	1090
* 18 Phenanthrene-d10	188		9.677	9.691	(1.000)	351105	200.000	
19 Phenanthrene	178		9.704	9.704	(1.003)	1468360	1000.00	1040
20 Anthracene	178		9.758	9.771	(1.008)	1419511	1000.00	1040
24 Fluoranthene	202		11.192	11.192	(1.157)	1604755	1000.00	1200
25 Pyrene	202		11.461	11.474	(0.883)	1686598	1000.00	1060
28 Benzo(a)anthracene	228		12.949	12.963	(0.998)	1206368	1000.00	1160
* 29 Chrysene-d12	240		12.976	12.976	(1.000)	257165	200.000	
30 Chrysene	228		13.003	13.003	(1.002)	1551887	1000.00	1030
43 Total Benzofluoranthenes	252		14.251	14.251	(0.969)	2476051	2000.00	2320
34 Benzo(a)pyrene	252		14.619	14.619	(0.995)	1015493	1000.00	1280
* 35 Perylene-d12	264		14.700	14.700	(1.000)	186977	200.000	
37 Indeno(1,2,3-cd)pyrene	276		16.295	16.308	(1.109)	1293589	1000.00	1220 (M)
\$ 36 Dibenzo(a,h)anthracene-d14	292		16.268	16.268	(1.107)	801070	1000.00	1210 (M)
38 Dibenzo(a,h)anthracene	278		16.322	16.322	(1.110)	956638	1000.00	1220 (M)
39 Benzo(g,h,i)perylene	276		16.764	16.778	(1.140)	1162457	1000.00	1170 (M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: ic0121b.d
 Lab Smp Id: IC0121B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

Calibration Date: 21-JAN-2011
 Calibration Time: 17:52
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	385441	12.52
11 Acenaphthene-d10	185015	92508	370030	205110	10.86
18 Phenanthrene-d10	320966	160483	641932	351105	9.39
29 Chrysene-d12	212759	106380	425518	257165	20.87
35 Perylene-d12	156605	78302	313210	186977	19.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.68	-0.14
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	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: /chem3/nt11.i/20110121.b/ic0121b.d

Date: 21-JAN-2011 15:54

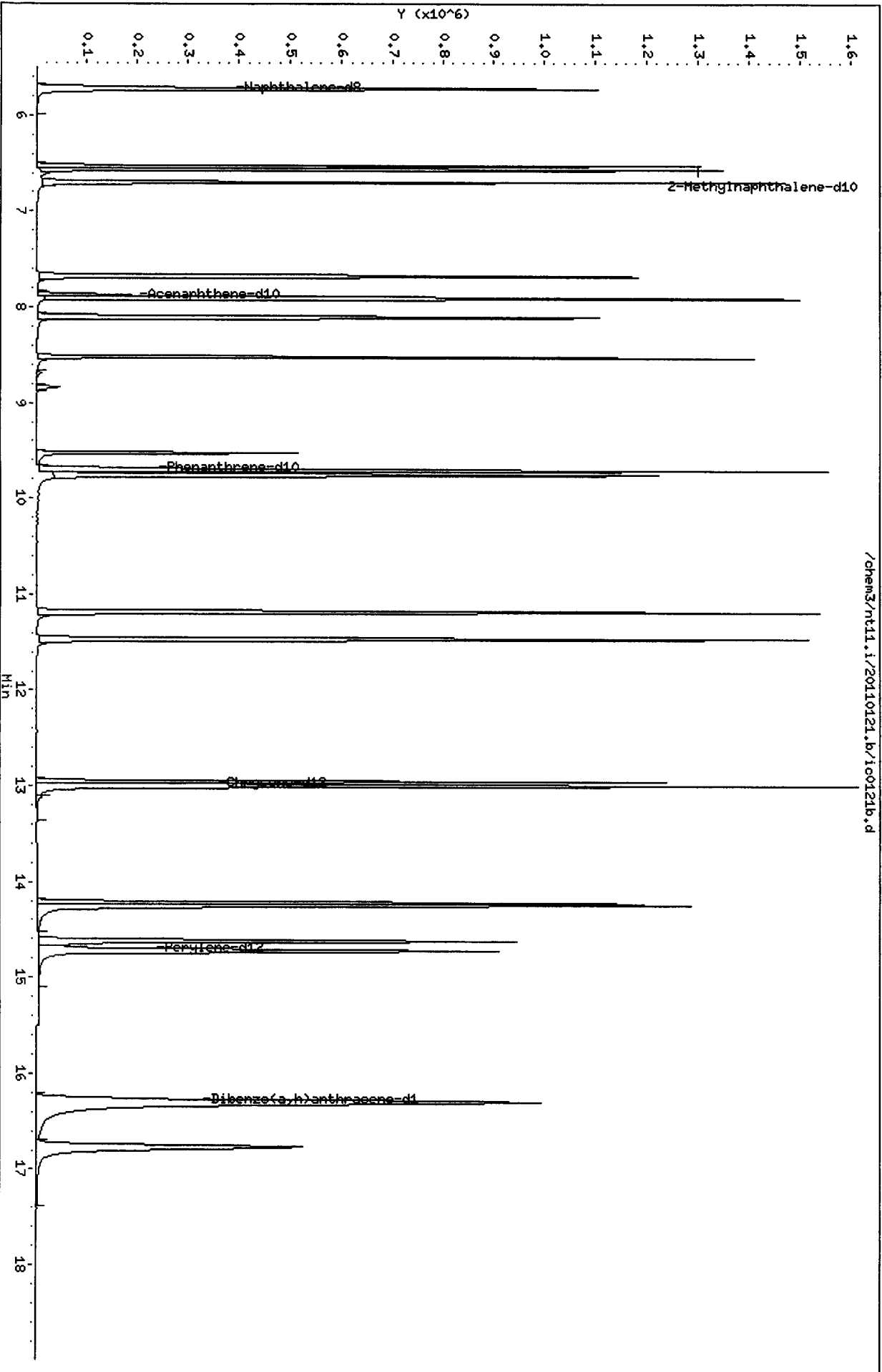
Client ID:

Instrument: nt11.i

Sample Info: IC0121B

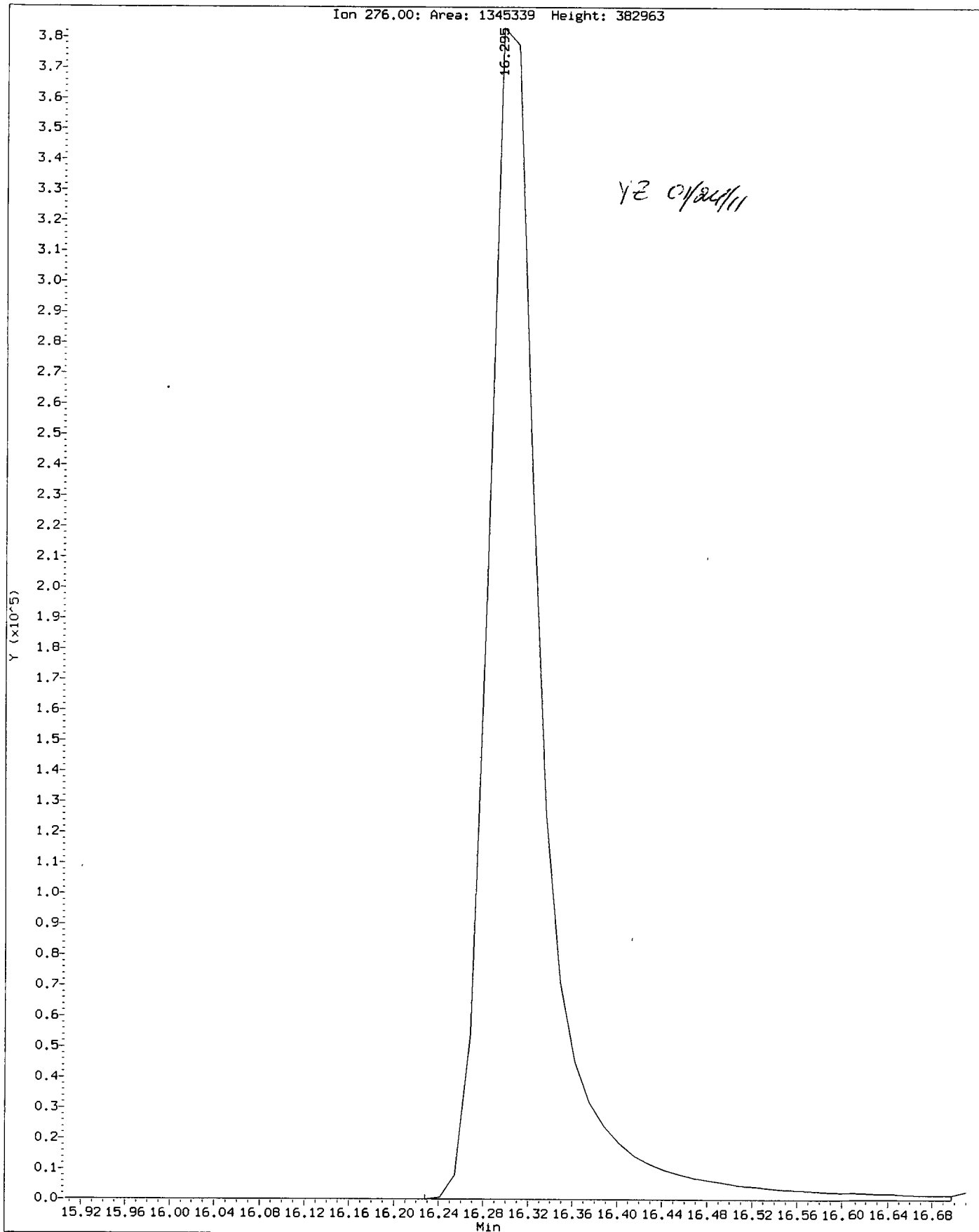
Column phase: ZB-5ms1

Operator: yz
Column diameter: 0.25



Data File: /chem3/nt11.1/20110121.b/1c0121b.d
Injection Date: 21-JAN-2011 15:54
Instrument: nt11.1
Client Sample ID:

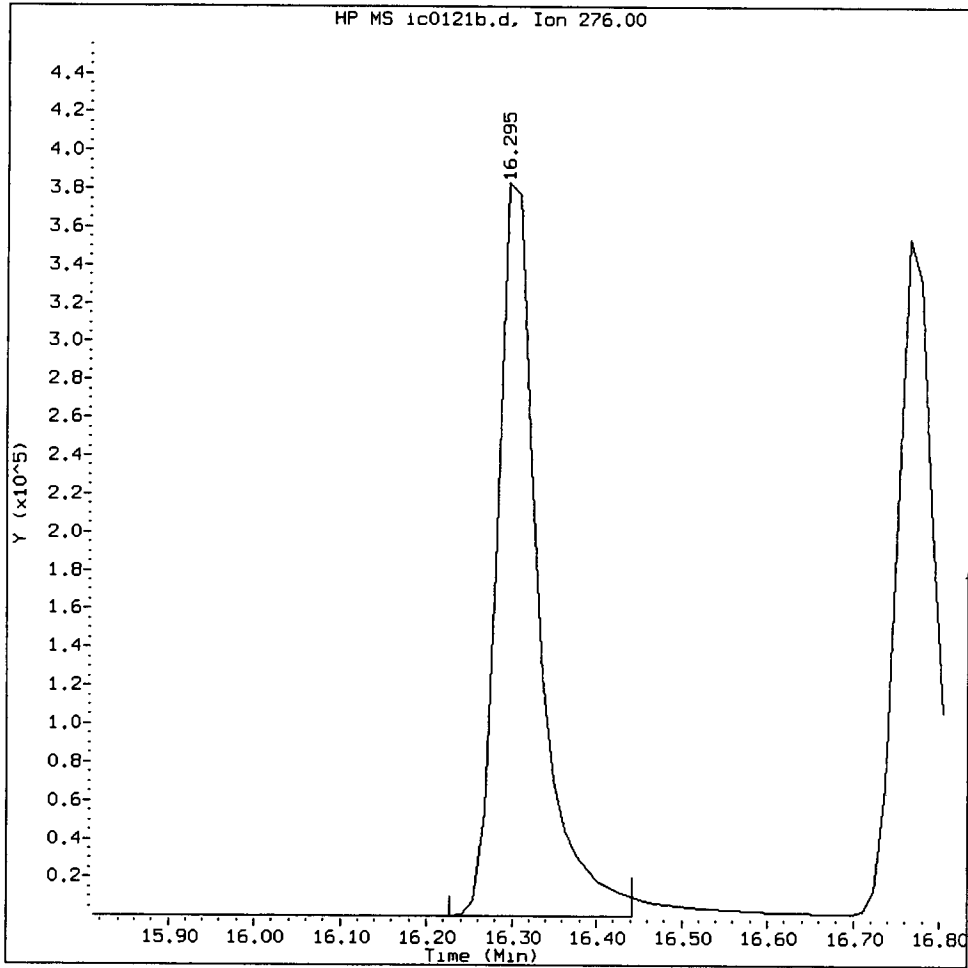
Compound: Indeno(1,2,3-cd)pyrene
CAS Number:



SF26 : 00639

IC0121B, /chem3/nt11.i/20110121.b/ic0121b.d

Indeno(1,2,3-cd)pyrene Amount: 1218.92 Area: 1293589



MANUAL INTEGRATION for Indeno(1,2,3-cd)pyrene

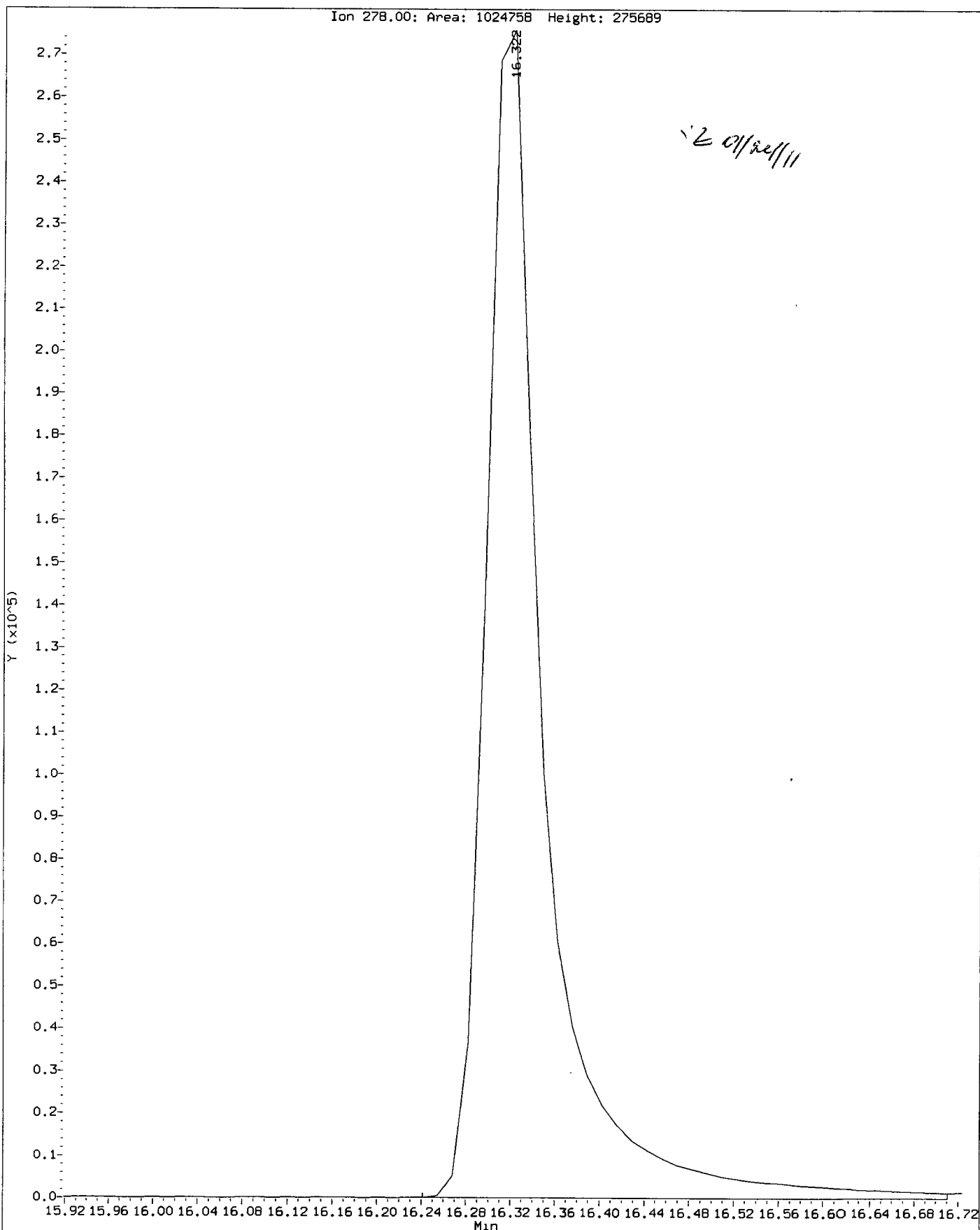
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: ye

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121b.d
Injection Date: 21-JAN-2011 15:54
Instrument: nt11.i
Client Sample ID:

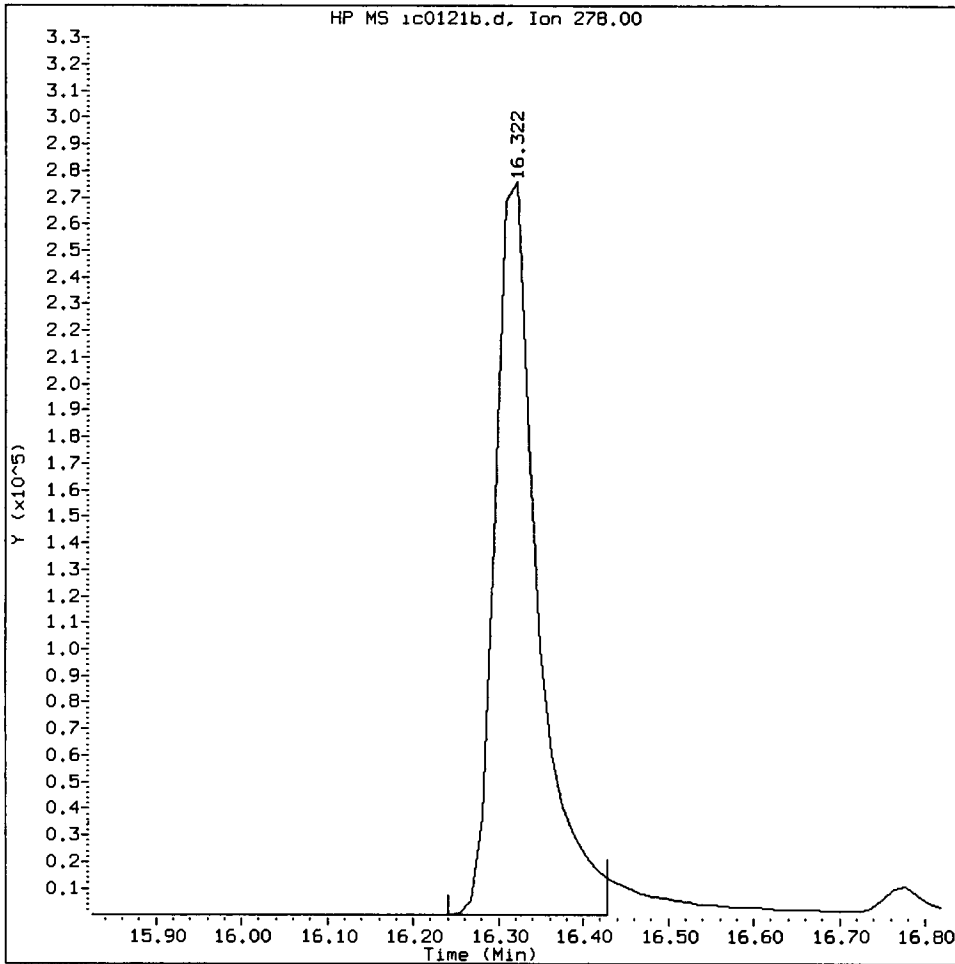
Compound: Dibenzo(a,h)anthracene
CAS Number:



SF26: 00641

IC0121B, /chem3/nt11.i/20110121.b/ic0121b.d

Dibenzo(a,h)anthracene Amount: 1217.26 Area: 956638



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

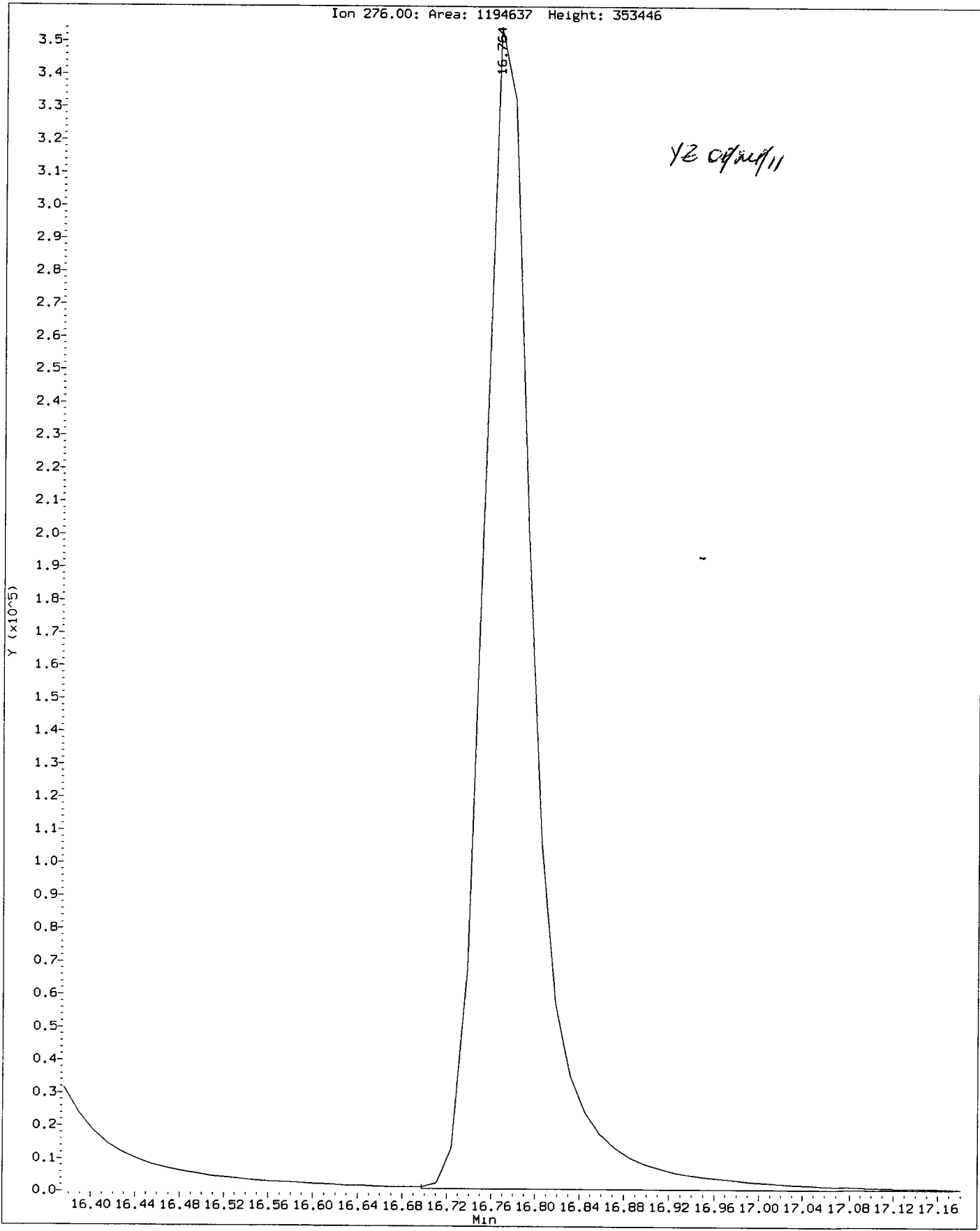
5. Other _____

Analyst: YZ

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/1c0121b.d
Injection Date: 21-JAN-2011 15:54
Instrument: nt11.1
Client Sample ID:

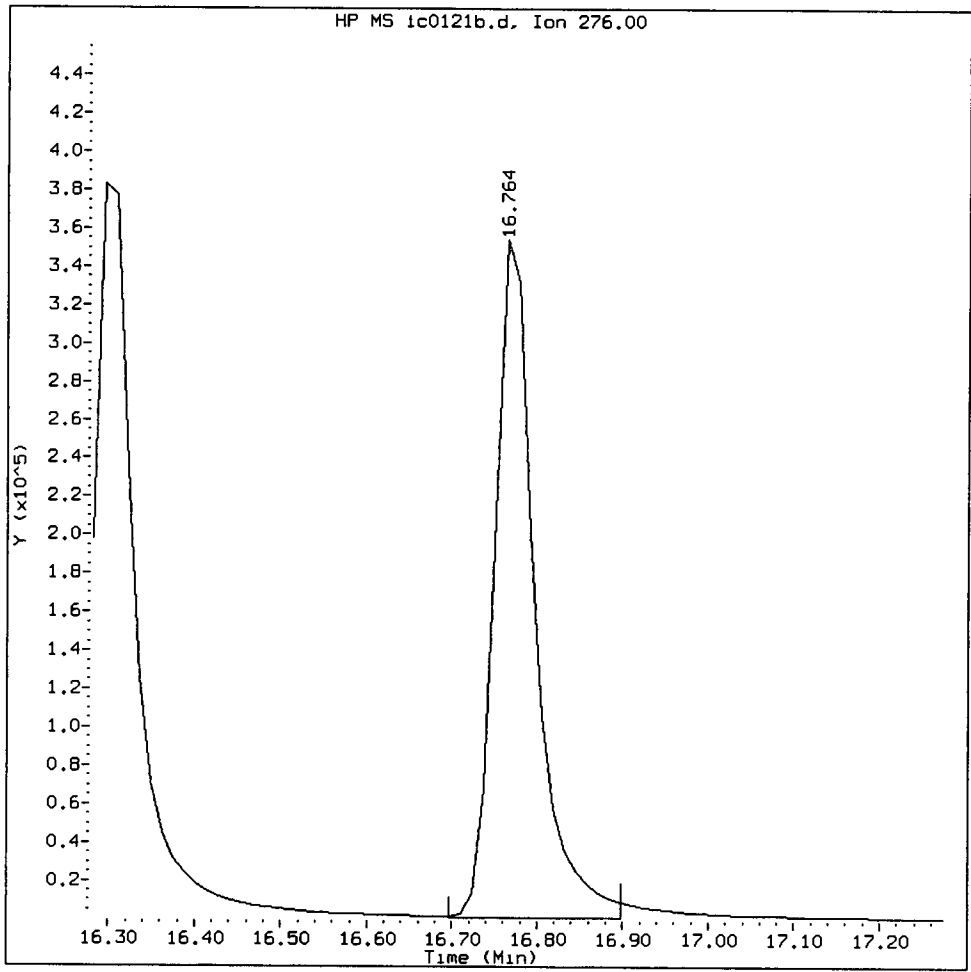
Compound: Benzo(g,h,i)perylene
CAS Number:



SF26 00643

IC0121B, /chem3/nt11.i/20110121.b/ic0121b.d

Benzo(g,h,i)perylene Amount: 1170.88 Area: 1162457



MANUAL INTEGRATION for Benzo(g,h,i)perylene

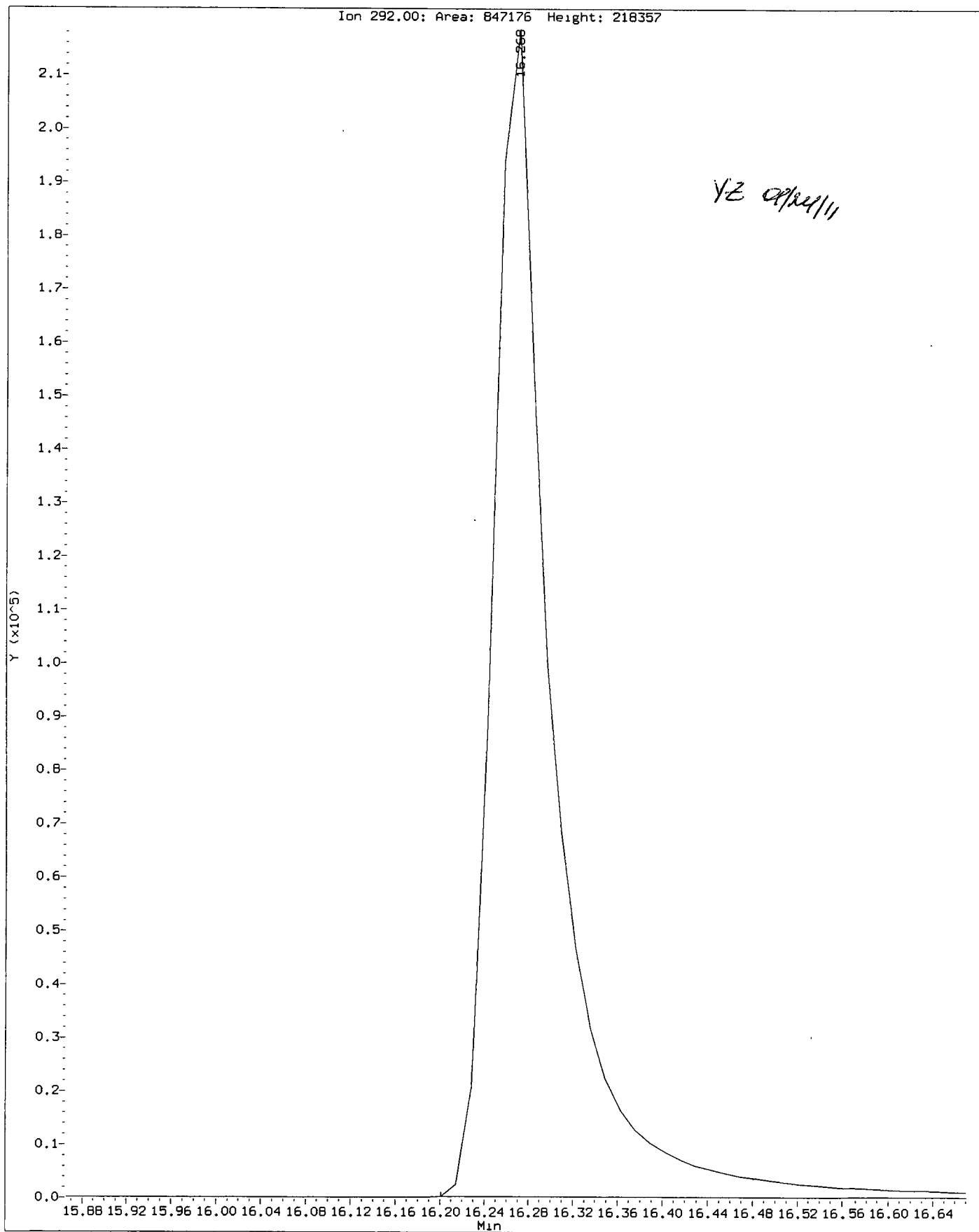
- 1. Baseline correction ✓
- 2. Poor chromatography ✓
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YE

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/lc0121b.d
Injection Date: 21-JAN-2011 15:54
Instrument: nt11.1
Client Sample ID:

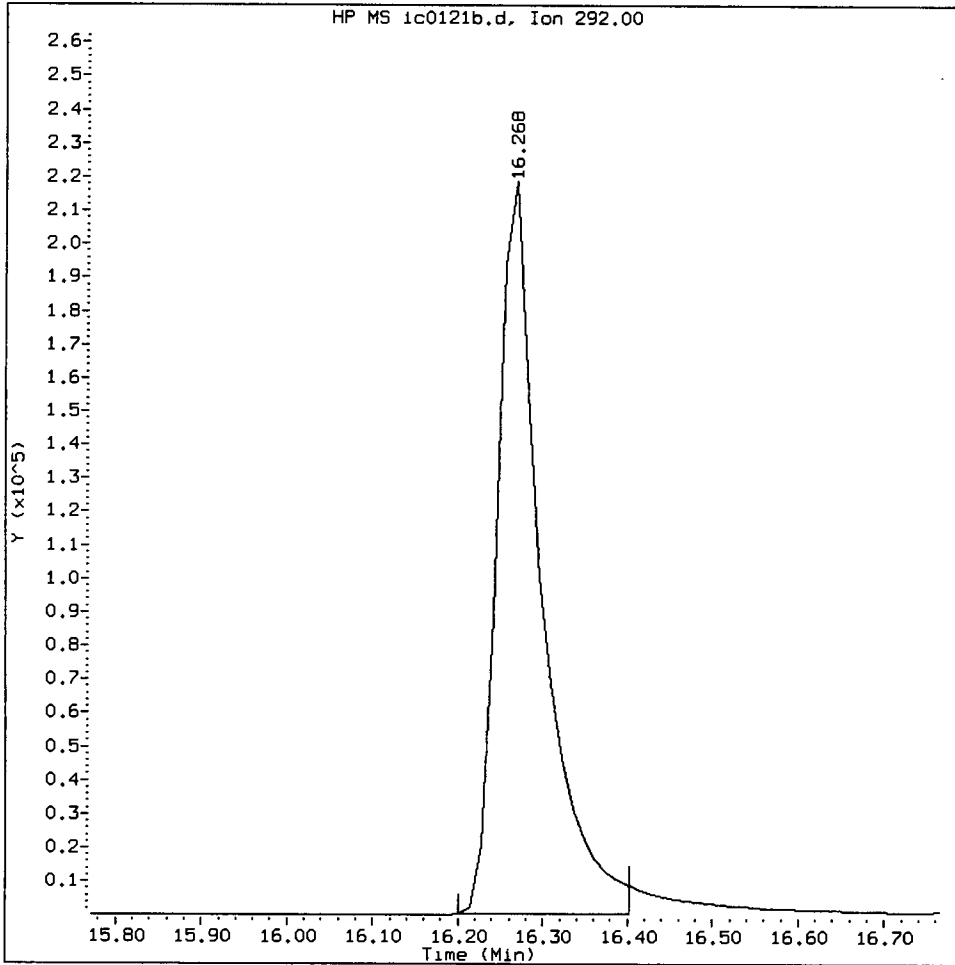
Compound: Dibenzo(a,h)anthracene-d14
CAS Number:



SF26:00645

IC0121B, /chem3/nt11.i/20110121.b/ic0121b.d

Dibenzo(a,h)anthracene-d14 Amount: 1213.66 Area: 801070



MANUAL INTEGRATION for Dibenzo(a,h)anthracene-d14

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YZ

Date: 09/24/11

CO-ELUTION SUMMARY FOR FILE - ic0121b.d

Lab ID: IC0121B, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

yz 01/24/11

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110121.b/ic0121c.d
 Lab Smp Id: IC0121C
 Inj Date : 21-JAN-2011 16:17
 Operator : yz
 Smp Info : IC0121C
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110121.b/lowsim.m
 Meth Date : 24-Jan-2011 14:10 yev
 Cal Date : 21-JAN-2011 16:17
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt11.i
 Quant Type: ISTD
 Cal File: ic0121c.d
 Calibration Sample, Level: 1
 Compound Sublist: pnalnm.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 4 Naphthalene-d8	136	5.709	5.709	(1.000)	342785	200.000	
5 Naphthalene	128	5.732	5.732	(1.004)	14424	10.0000	10.4
\$ 6 2-Methylnaphthalene-d10	152	6.537	6.526	(1.145)	7722	10.0000	9.39
7 2-Methylnaphthalene	142	6.572	6.560	(1.151)	7053	10.0000	8.87
8 1-Methylnaphthalene	142	6.698	6.698	(1.173)	8217	10.0000	10.2
10 Acenaphthylene	152	7.680	7.680	(0.976)	9941	10.0000	8.96 (M)
* 11 Acenaphthene-d10	164	7.868	7.867	(1.000)	171103	200.000	
12 Acenaphthene	153	7.908	7.894	(1.005)	7599	10.0000	10.0
14 Dibenzofuran	168	8.122	8.109	(1.032)	11113	10.0000	9.89
15 Fluorene	166	8.538	8.524	(1.085)	7148	10.0000	9.47
* 18 Phenanthrene-d10	188	9.691	9.691	(1.000)	285496	200.000	(M)
19 Phenanthrene	178	9.718	9.704	(1.000)	10904	10.0000	9.46
20 Anthracene	178	9.771	9.771	(1.000)	10829	10.0000	9.75
24 Fluoranthene	202	11.206	11.192	(1.156)	9509	10.0000	8.75 (M)
25 Pyrene	202	11.474	11.474	(1.000)	10333	10.0000	8.91
28 Benzo (a) anthracene	228	12.963	12.963	(1.000)	6342	10.0000	8.40
* 29 Chrysene-d12	240	12.976	12.976	(1.000)	187340	200.000	(M)
30 Chrysene	228	13.016	13.003	(1.000)	11330	10.0000	10.3
43 Total Benzofluoranthenes	252	14.262	14.251	(0.970)	13471	20.0000	16.8 (M)
34 Benzo (a) pyrene	252	14.631	14.619	(0.995)	4267	10.0000	7.16
* 35 Perylene-d12	264	14.700	14.700	(1.000)	140074	200.000	(M)
37 Indeno (1,2,3-cd) pyrene	276	16.335	16.308	(1.111)	5722	10.0000	7.20
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.295	16.268	(1.109)	3607	10.0000	7.29
38 Dibenzo (a,h) anthracene	278	16.349	16.322	(1.112)	4696	10.0000	7.98
39 Benzo (g,h,i) perylene	276	16.791	16.778	(1.142)	6129	10.0000	8.24

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: ic0121c.d
 Lab Smp Id: IC0121C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

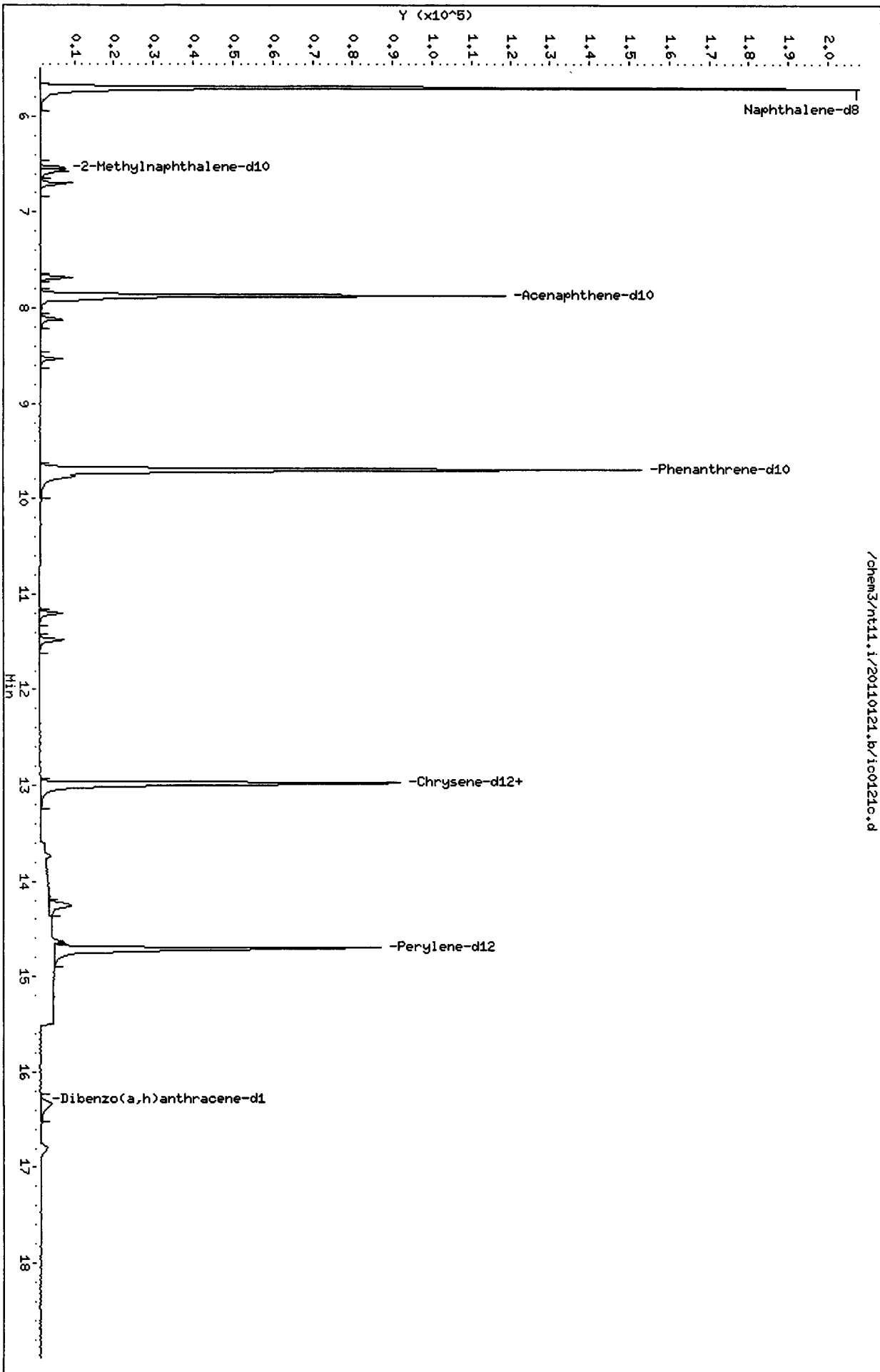
Calibration Date: 21-JAN-2011
 Calibration Time: 17:52
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	342785	0.07
11 Acenaphthene-d10	185015	92508	370030	171103	-7.52
18 Phenanthrene-d10	320966	160483	641932	285496	-11.05
29 Chrysene-d12	212759	106380	425518	187340	-11.95
35 Perylene-d12	156605	78302	313210	140074	-10.56

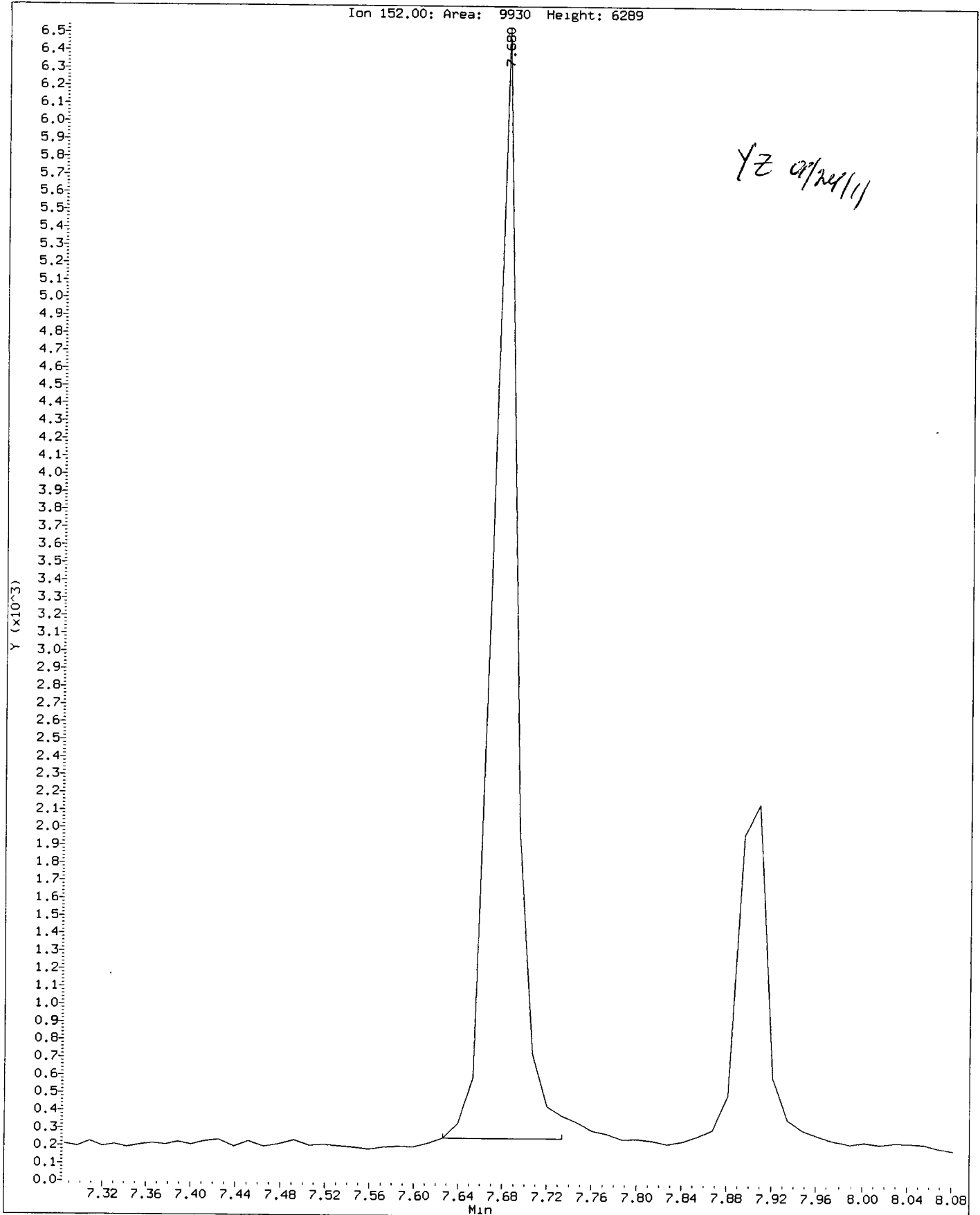
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	0.00

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: /chem3/nt11.1/20110121.b/ic0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.1
Client Sample ID:

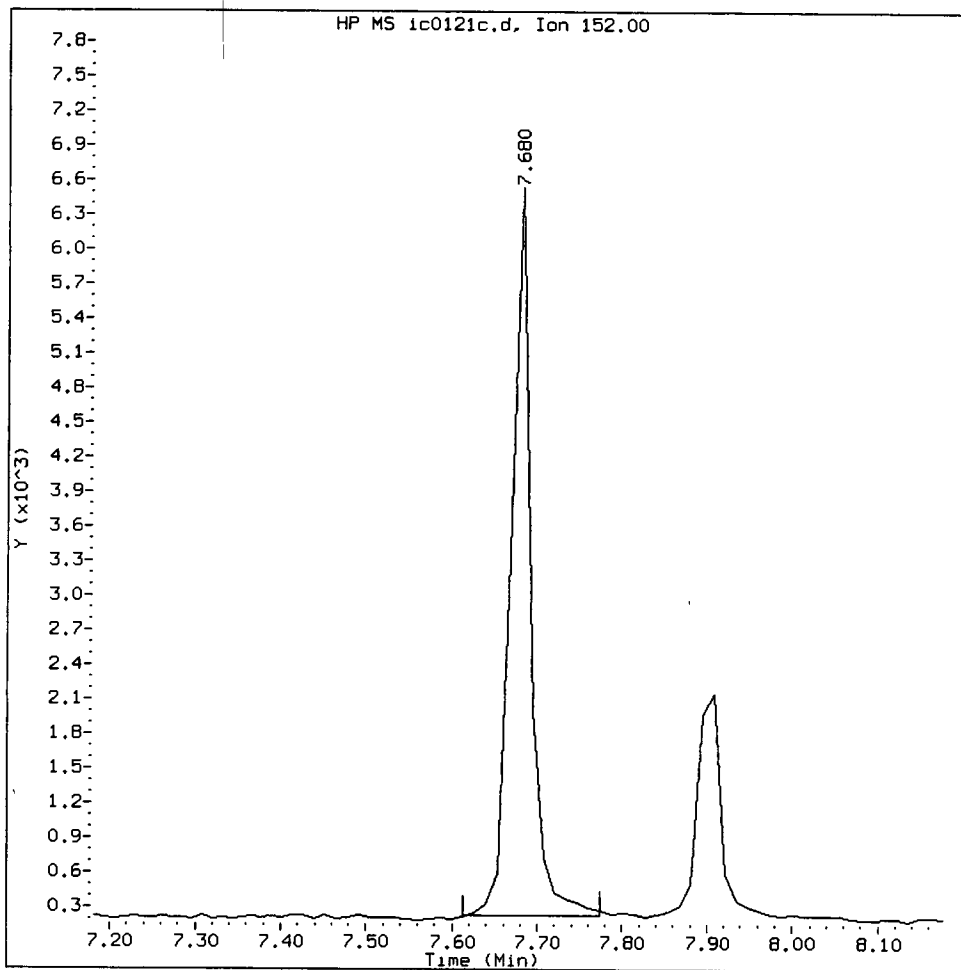
Compound: Acenaphthylene
CAS Number:



SF26:00652

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Acenaphthylene Amount: 8.96 Area: 9941



MANUAL INTEGRATION for Acenaphthylene

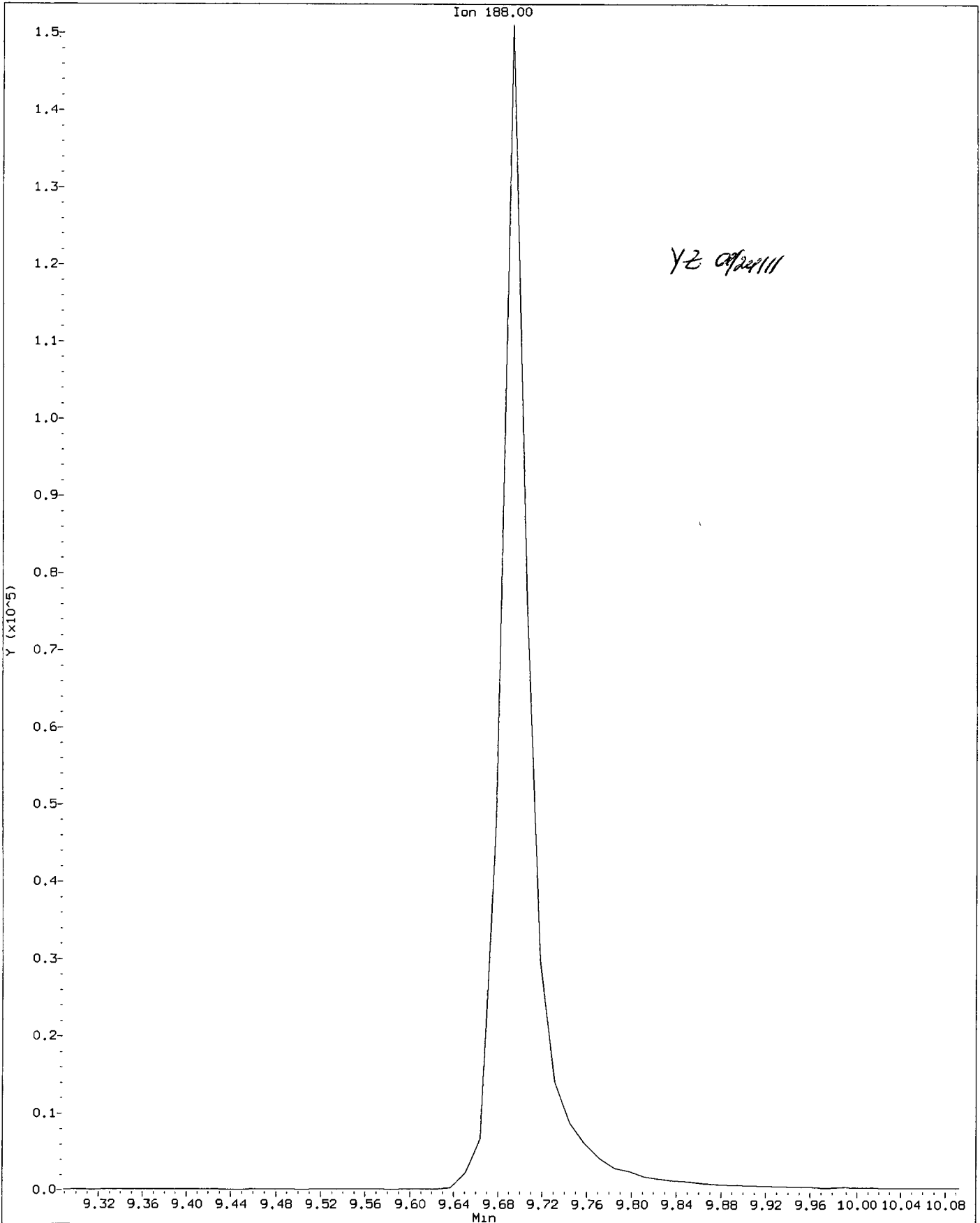
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YZ

Date: 07/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.1
Client Sample ID:

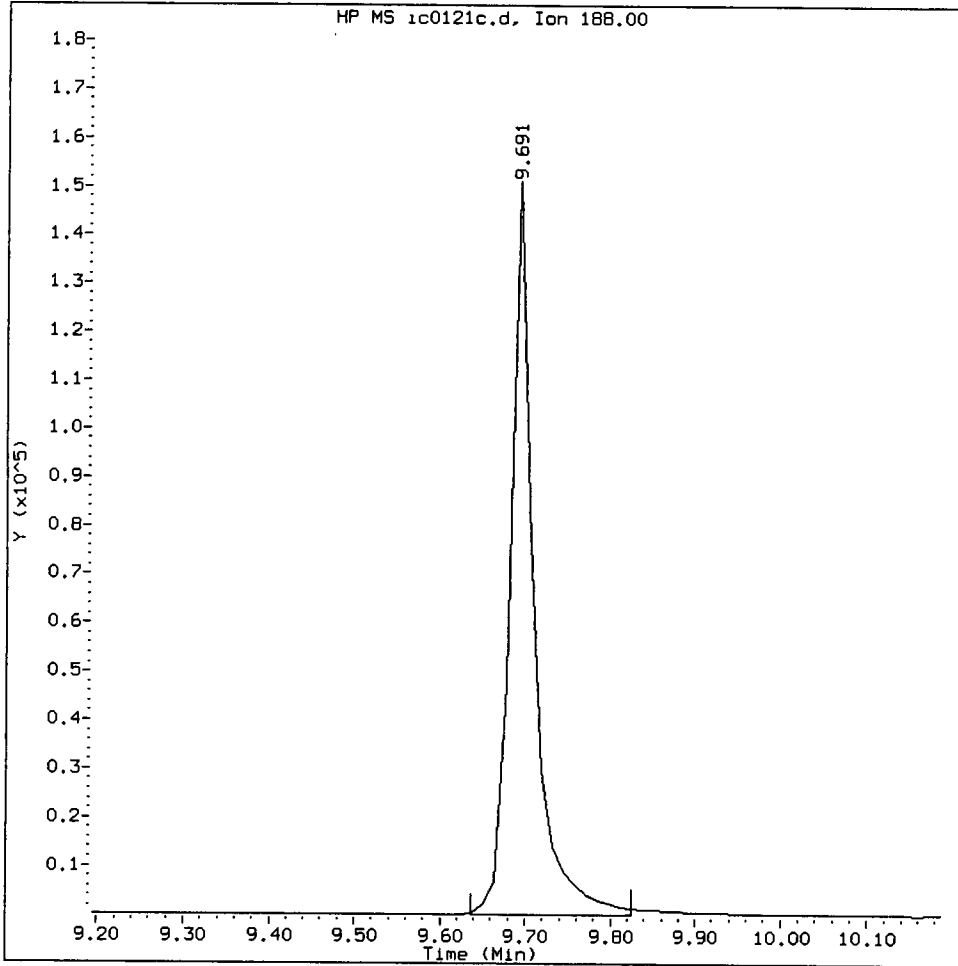
Compound: Phenanthrene-d10
CAS Number:



SF26: 00654

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Phenanthrene-d10 Amount: 200.00 Area: 285496



MANUAL INTEGRATION for Phenanthrene-d10

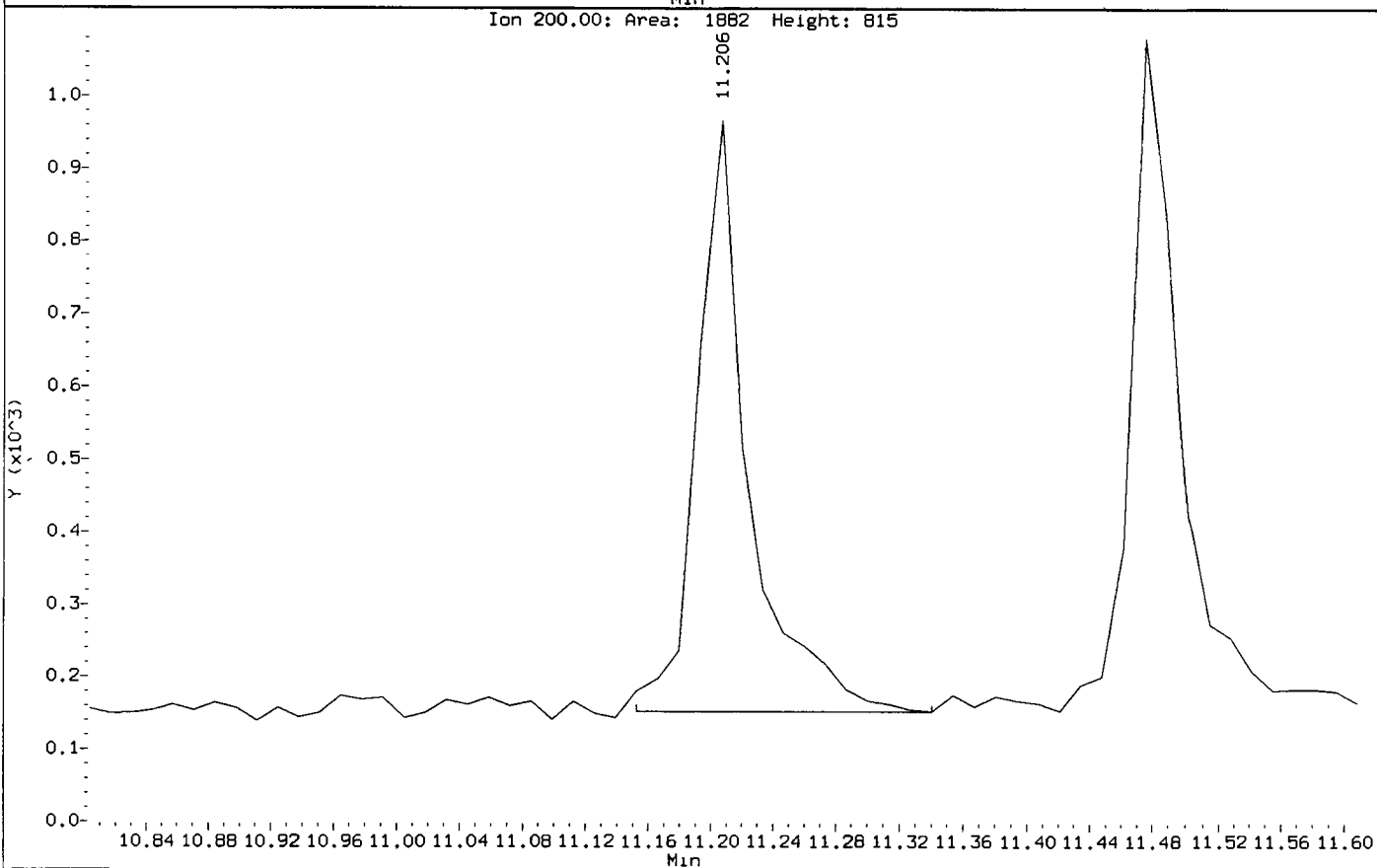
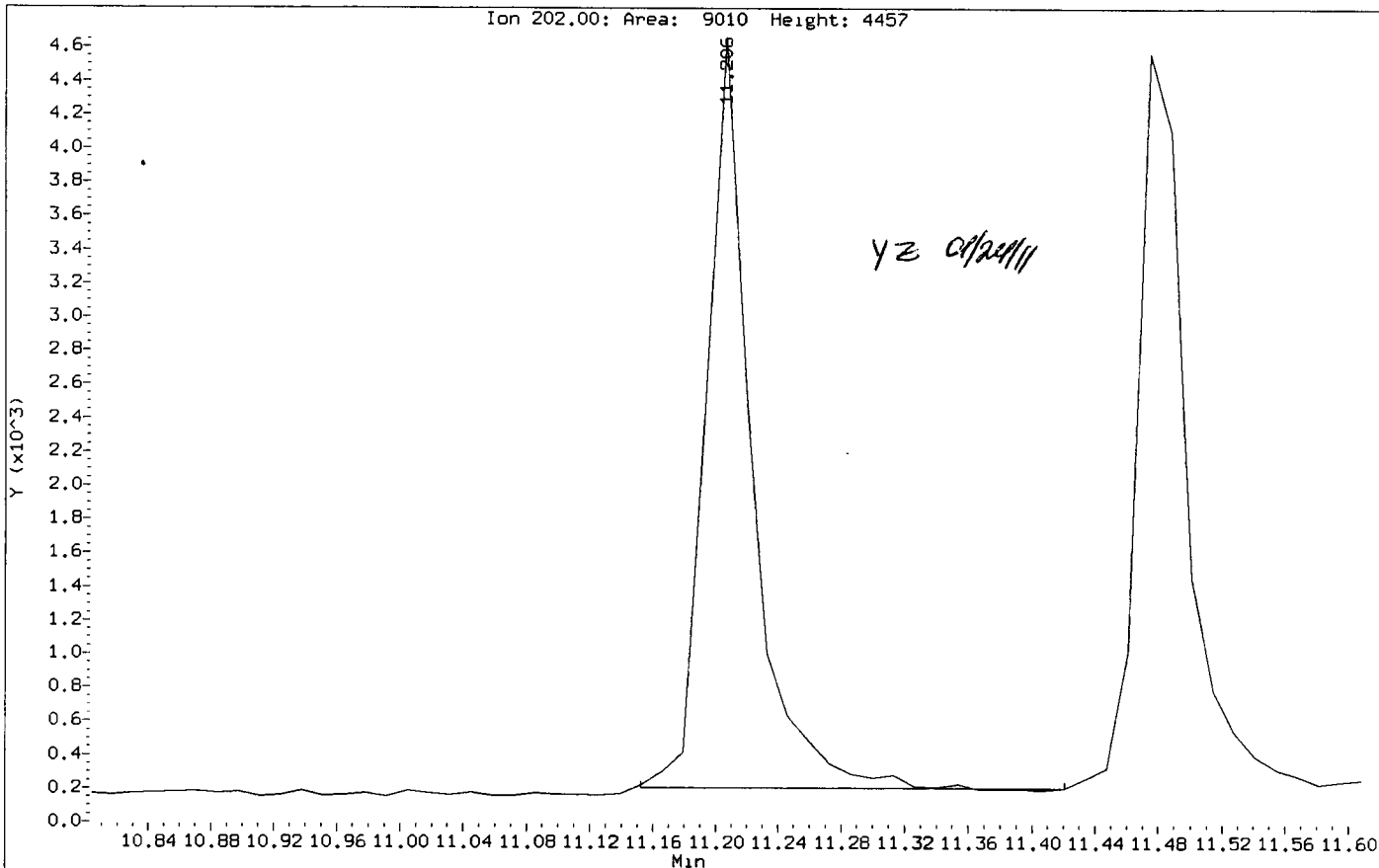
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: YZ

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/1c0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.1
Client Sample ID:

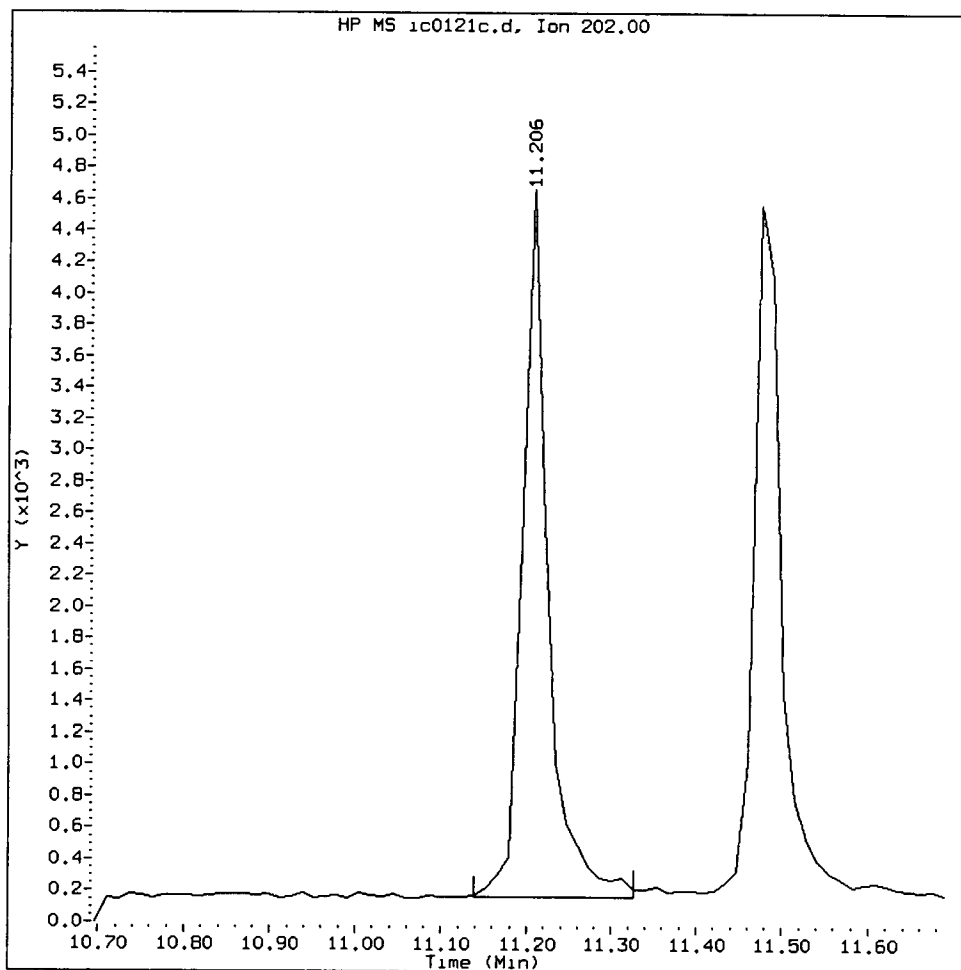
Compound: Fluoranthene
CAS Number:



SF26 : 00656

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Fluoranthene Amount: 8.75 Area: 9509



MANUAL INTEGRATION for Fluoranthene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

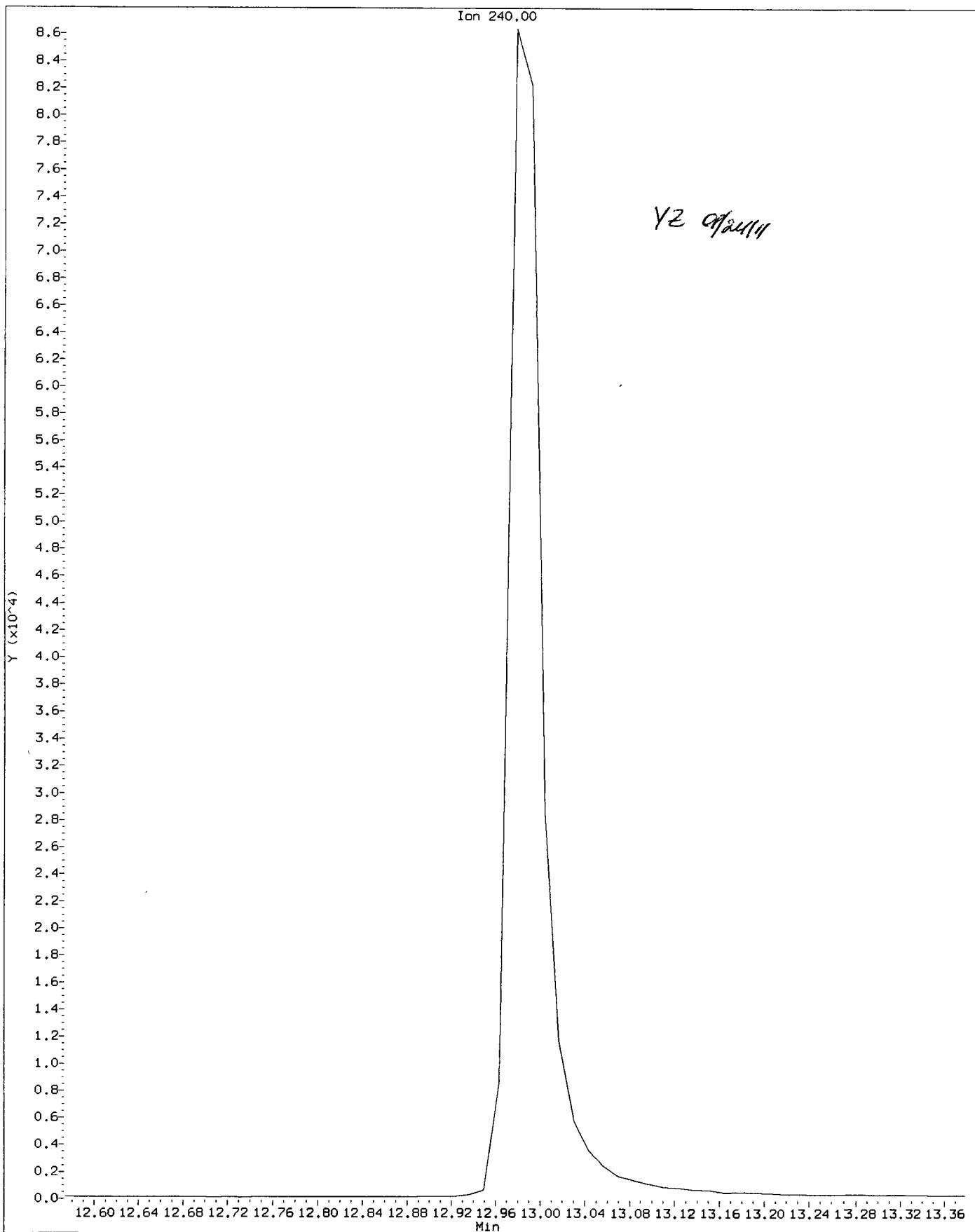
5. Other _____

Analyst: Y2

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/1c0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.1
Client Sample ID:

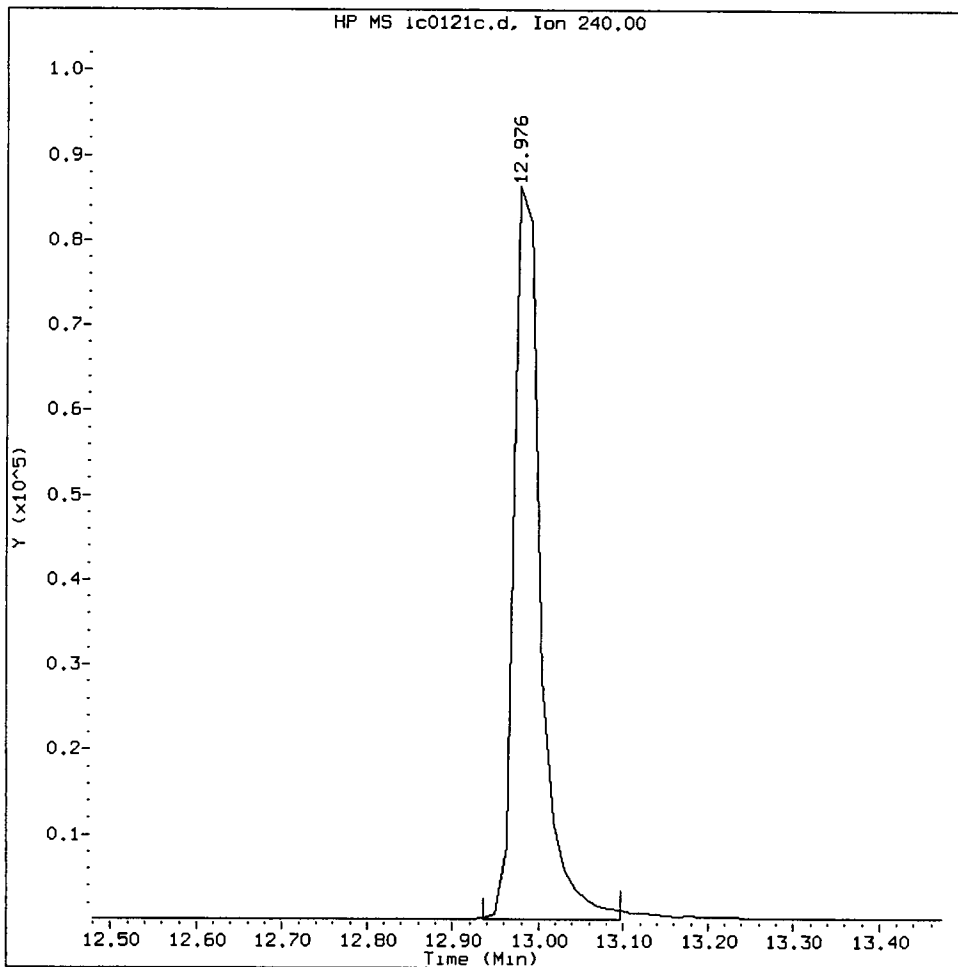
Compound: Chrysene-d12
CAS Number:



SF26 : 00658

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Chrysene-d12 Amount: 200.00 Area: 187340



MANUAL INTEGRATION for Chrysene-d12

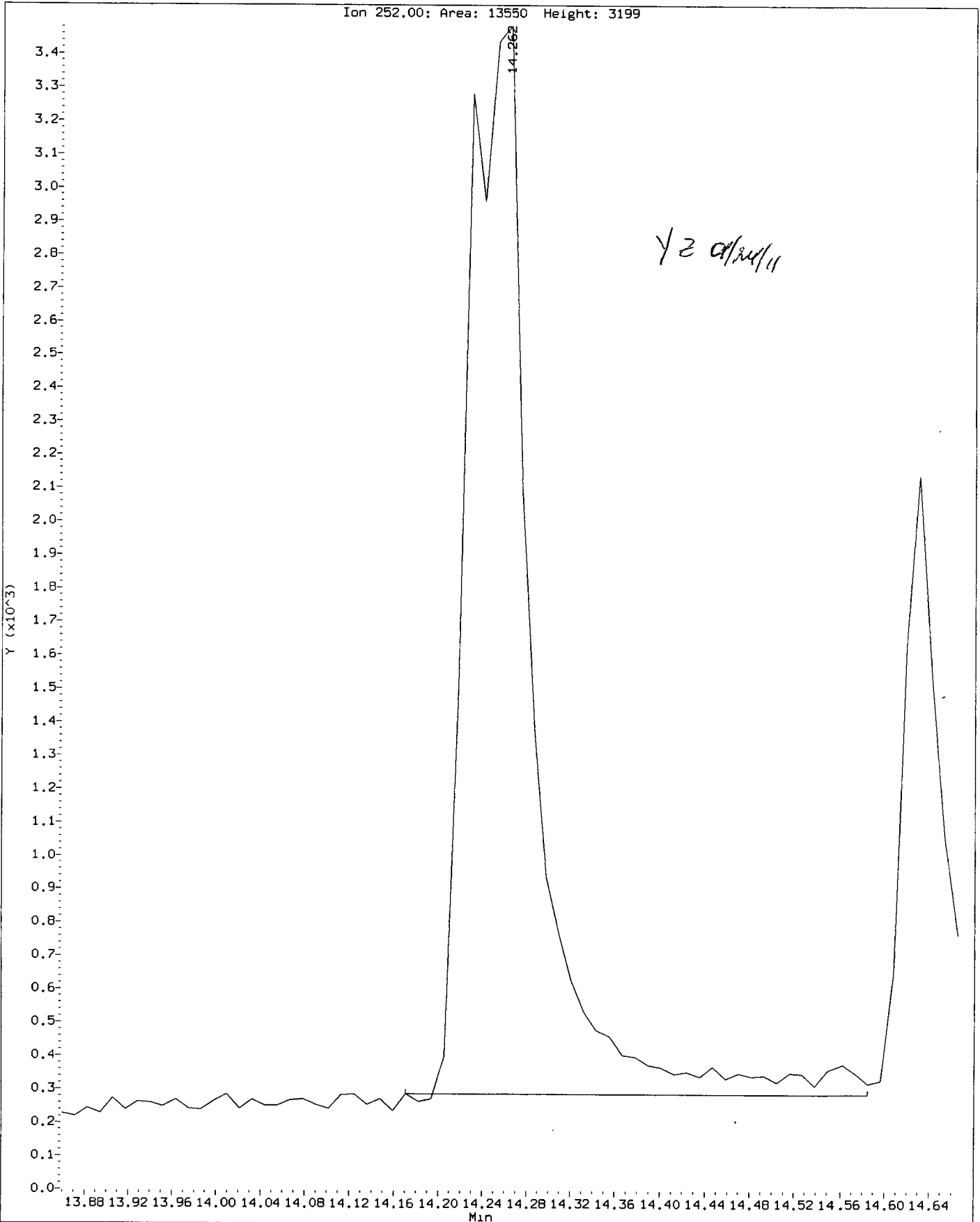
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz

Date: 01/24/11

Data File: /chem3/nt11.i/20110121.b/ic0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.i
Client Sample ID:

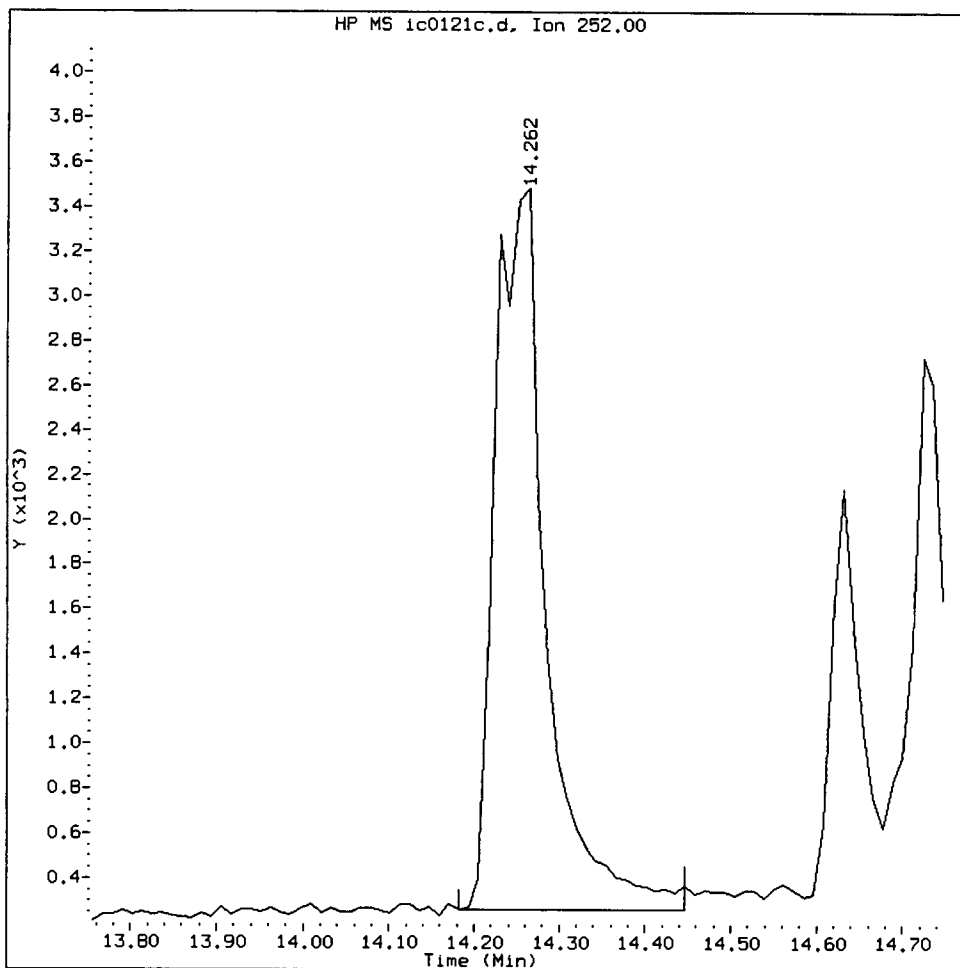
Compound: Total Benzofluoranthenes
CAS Number:



SF26: 00660

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Total Benzofluoranthenes Amount: 16.83 Area: 13471



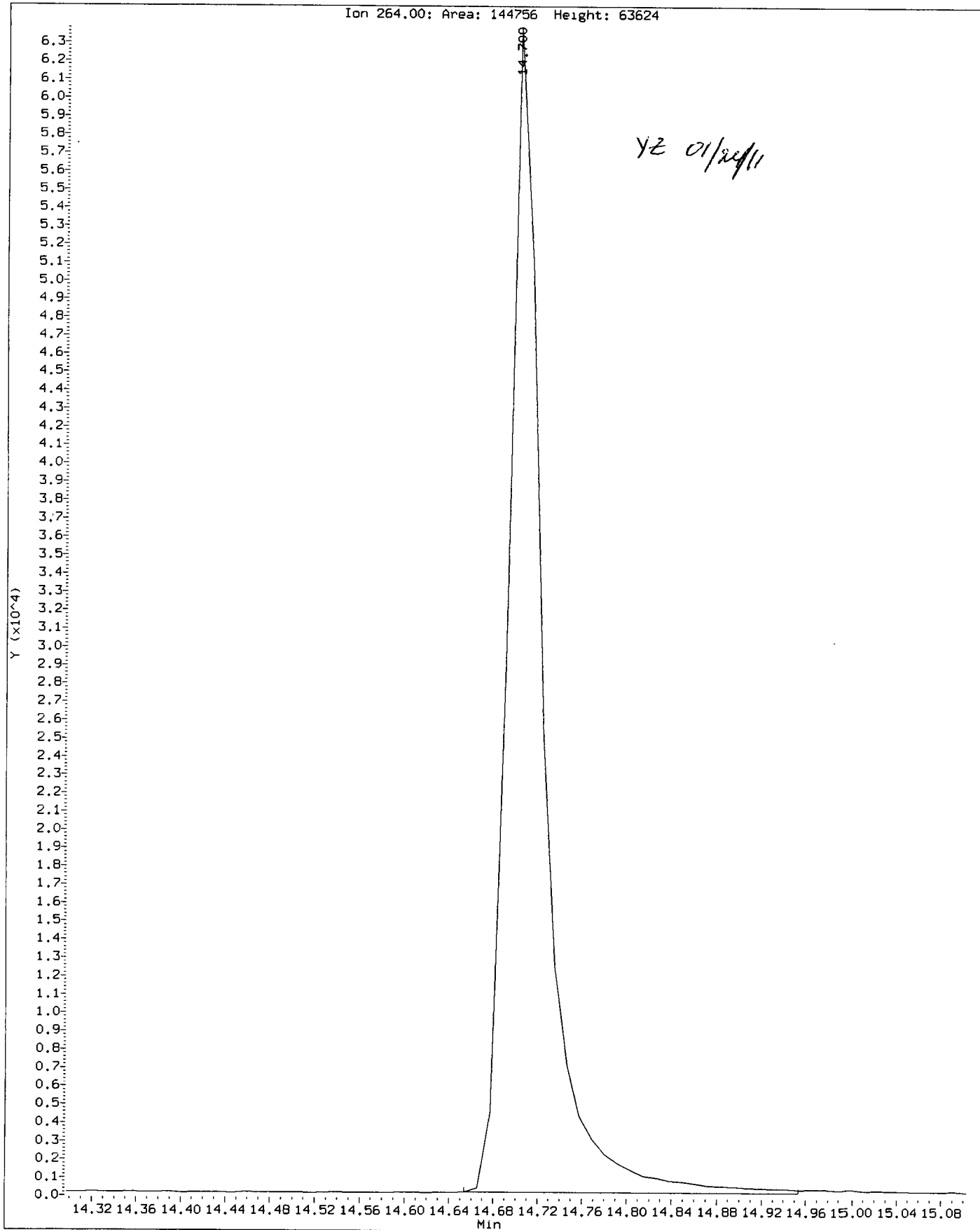
MANUAL INTEGRATION for Total Benzofluoranthenes

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Y2 Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121c.d
Injection Date: 21-JAN-2011 16:17
Instrument: nt11.1
Client Sample ID:

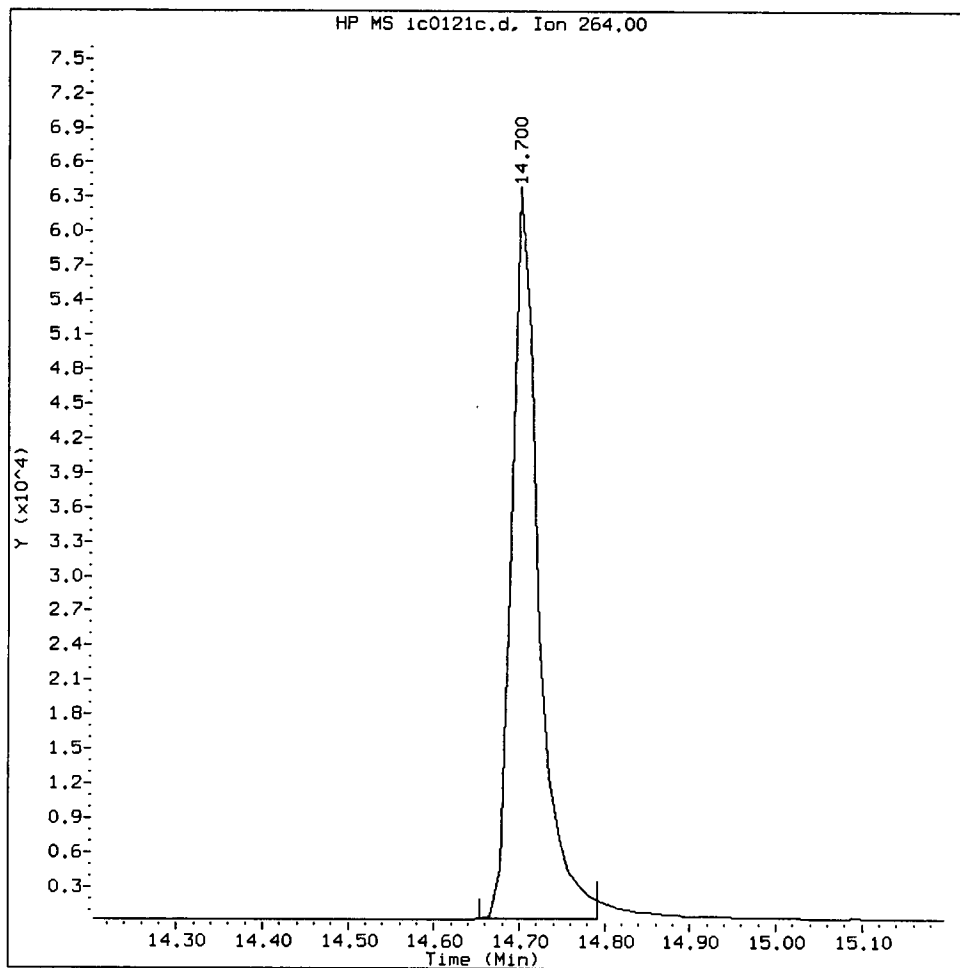
Compound: Perylene-d12
CAS Number:



SF26 : 00662

IC0121C, /chem3/nt11.i/20110121.b/ic0121c.d

Perylene-d12 Amount: 200.00 Area: 140074



MANUAL INTEGRATION for Perylene-d12

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: Y2 Date: 07/24/11

CO-ELUTION SUMMARY FOR FILE - ic0121c.d

Lab ID: IC0121C, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

Data file : /chem3/nt11.i/20110121.b/ic0121d.d
Lab Smp Id: IC0121D
Inj Date : 21-JAN-2011 16:41
Operator : YZ
Smp Info : IC0121D
Misc Info :
Comment :
Method : /chem3/nt11.i/20110121.b/lowsim.m
Meth Date : 24-Jan-2011 14:10 yev
Cal Date : 21-JAN-2011 16:41
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt11.i
Quant Type: ISTD
Cal File: ic0121d.d
Calibration Sample, Level: 5
Compound Sublist: pnalmn.sub

YEV 01/24/11

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
*****	****	==	=====	=====	*****	*****	*****
* 4 Naphthalene-d8	136	5.709	5.709	(1.000)	364437	200.000	
5 Naphthalene	128	5.732	5.732	(1.004)	766016	500.000	519
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.143)	462727	500.000	529
7 2-Methylnaphthalene	142	6.560	6.560	(1.149)	462529	500.000	547
8 1-Methylnaphthalene	142	6.698	6.698	(1.173)	462151	500.000	541
10 Acenaphthylene	152	7.680	7.680	(0.976)	697496	500.000	557
* 11 Acenaphthene-d10	164	7.868	7.867	(1.000)	193161	200.000	
12 Acenaphthene	153	7.894	7.894	(1.003)	443537	500.000	518
14 Dibenzofuran	168	8.109	8.109	(1.031)	680943	500.000	537
15 Fluorene	166	8.524	8.524	(1.083)	468667	500.000	550
* 18 Phenanthrene-d10	188	9.677	9.691	(1.000)	330240	200.000	
19 Phenanthrene	178	9.704	9.704	(1.003)	707354	500.000	531 (M)
20 Anthracene	178	9.771	9.771	(1.010)	723226	500.000	563
24 Fluoranthene	202	11.193	11.192	(1.157)	693832	500.000	552
25 Pyrene	202	11.474	11.474	(0.884)	750746	500.000	551
28 Benzo(a)anthracene	228	12.949	12.963	(0.998)	492513	500.000	555
* 29 Chrysene-d12	240	12.976	12.976	(1.000)	220238	200.000	
30 Chrysene	228	13.003	13.003	(1.002)	698407	500.000	540
43 Total Benzofluoranthenes	252	14.251	14.251	(0.969)	1034067	1000.00	1140
34 Benzo(a)pyrene	252	14.619	14.619	(0.995)	410941	500.000	609
* 35 Perylene-d12	264	14.700	14.700	(1.000)	158725	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.308	16.308	(1.109)	535872	500.000	595 (M)
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.268	16.268	(1.107)	333005	500.000	594 (M)
38 Dibenzo(a,h)anthracene	278	16.322	16.322	(1.110)	388249	500.000	582 (M)
39 Benzo(g,h,i)perylene	276	16.778	16.778	(1.141)	481244	500.000	571 (M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: ic0121d.d
 Lab Smp Id: IC0121D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

Calibration Date: 21-JAN-2011
 Calibration Time: 17:52

Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	364437	6.39
11 Acenaphthene-d10	185015	92508	370030	193161	4.40
18 Phenanthrene-d10	320966	160483	641932	330240	2.89
29 Chrysene-d12	212759	106380	425518	220238	3.52
35 Perylene-d12	156605	78302	313210	158725	1.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.68	-0.14
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	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: /chem3/nt11.i/20110121.b/ic0121d.d
Date: 21-JAN-2011 16:41

Client ID:

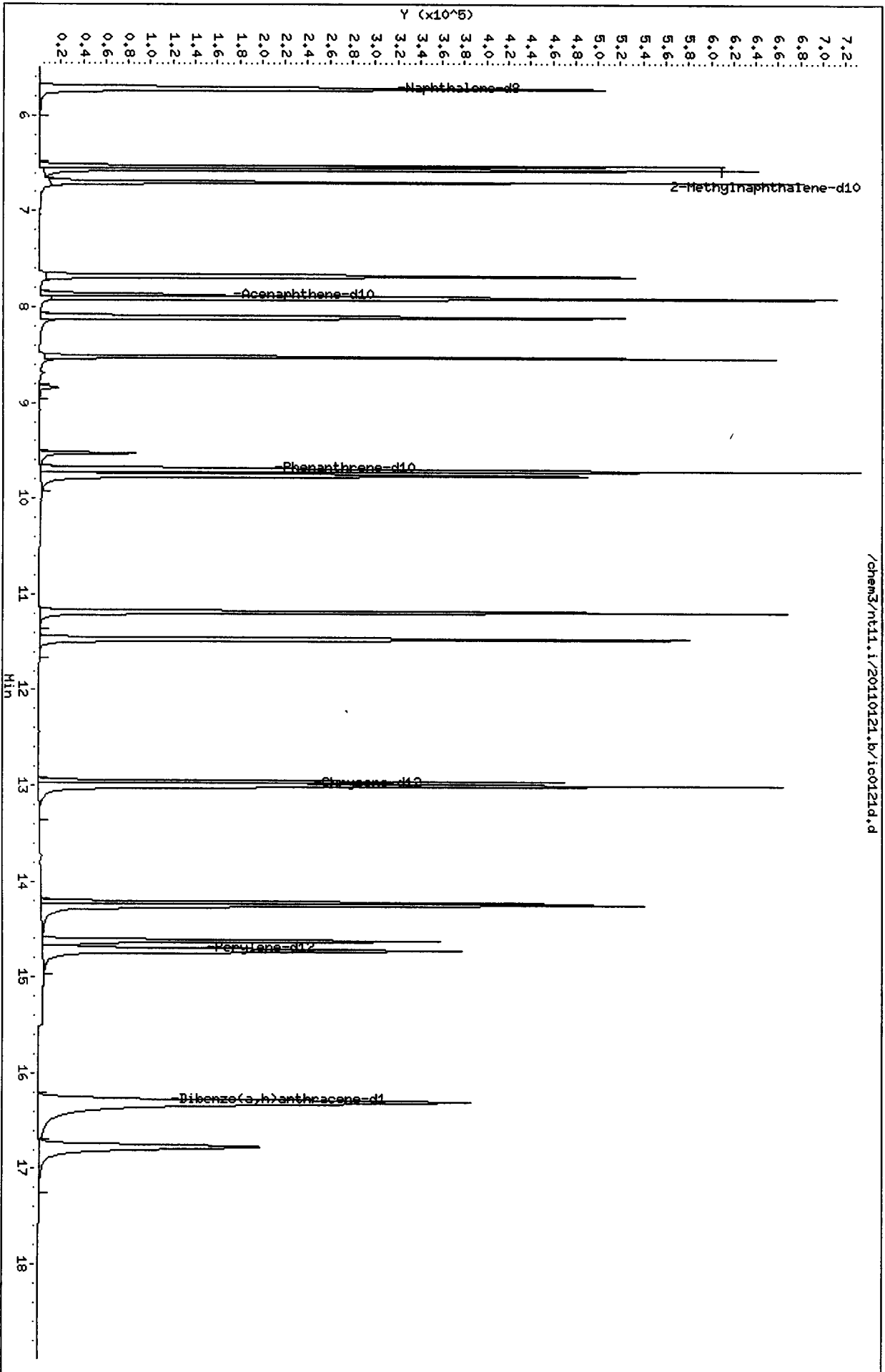
Sample Info: IC0121D

Column phase: ZB-Sms1

Instrument: nt11.i

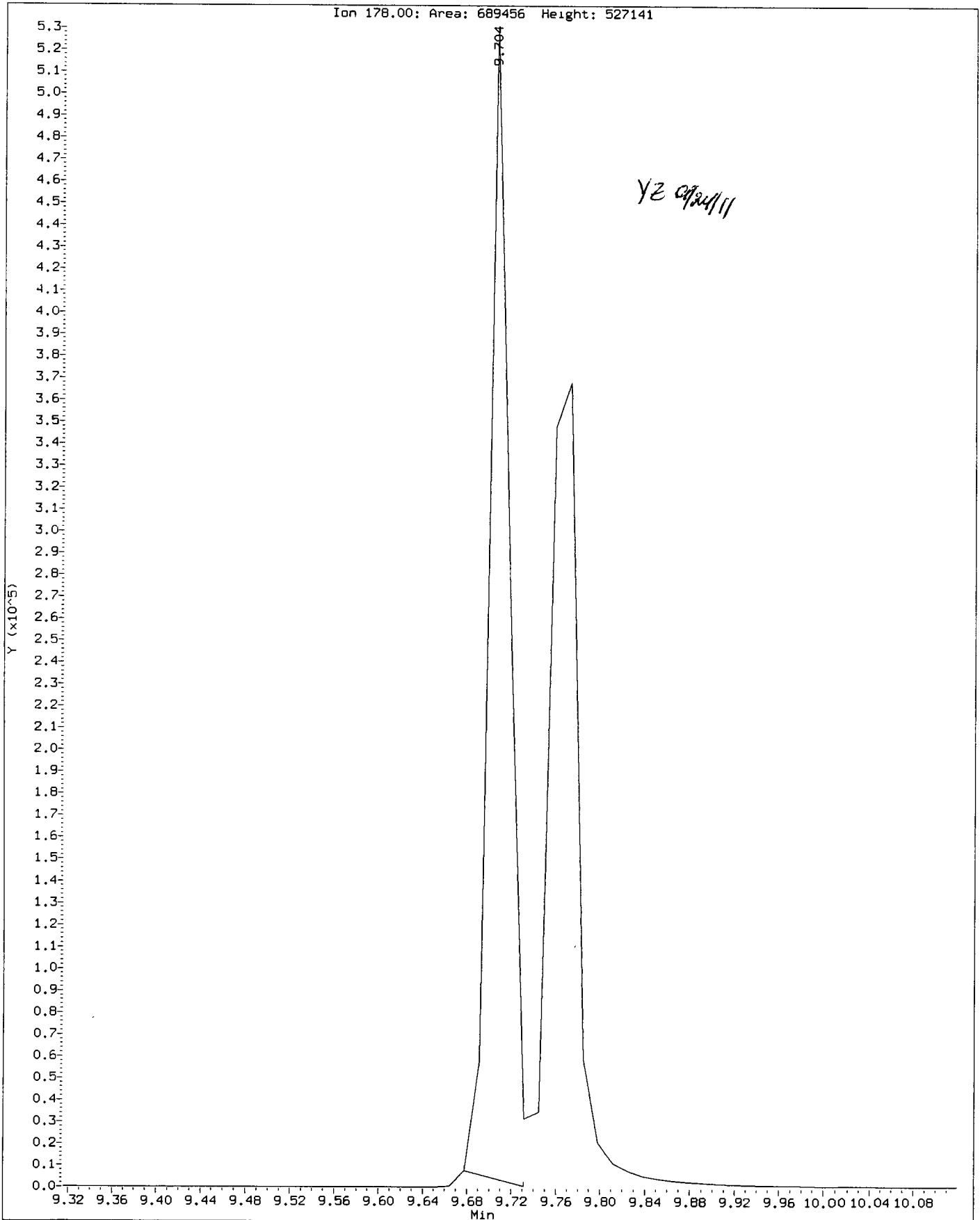
Operator: yz

Column diameter: 0.25



Data File: /chem3/nt11.1/20110121.b/ic0121d.d
Injection Date: 21-JAN-2011 16:41
Instrument: nt11.1
Client Sample ID:

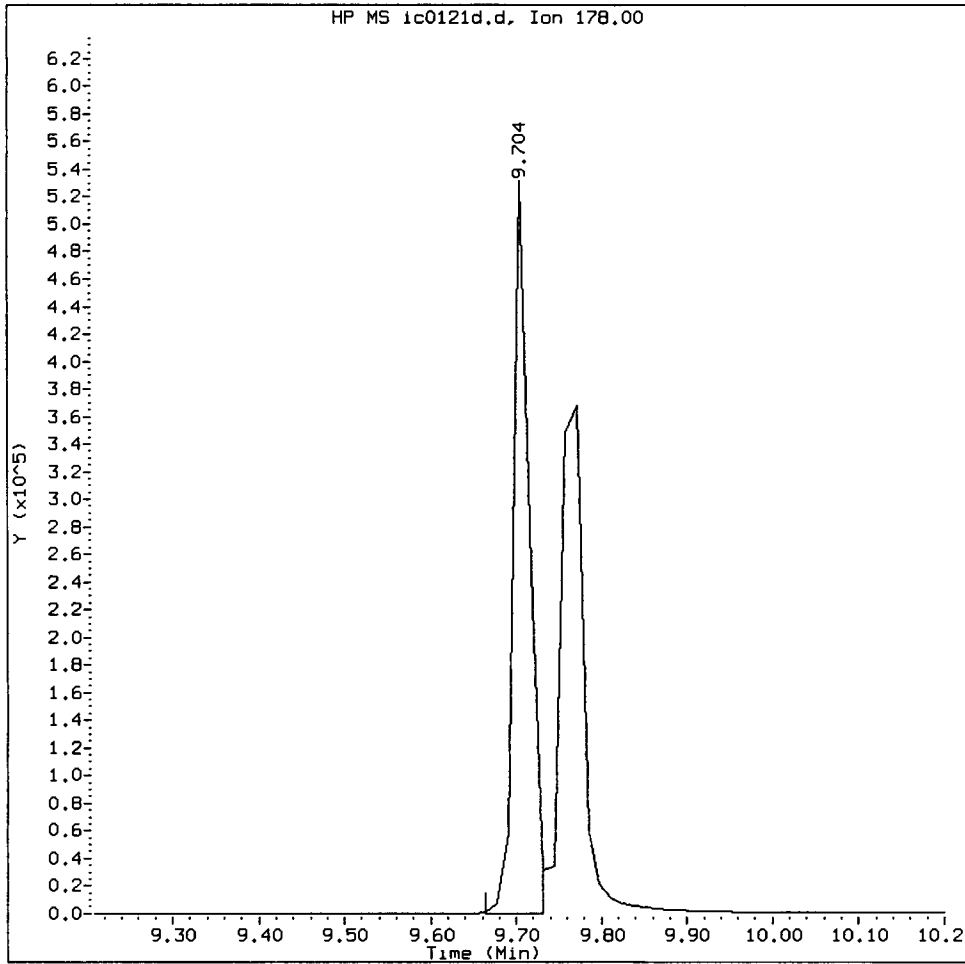
Compound: Phenanthrene
CAS Number:



SF26: 00669

IC0121D, /chem3/nt11.i/20110121.b/ic0121d.d

Phenanthrene Amount: 530.79 Area: 707354



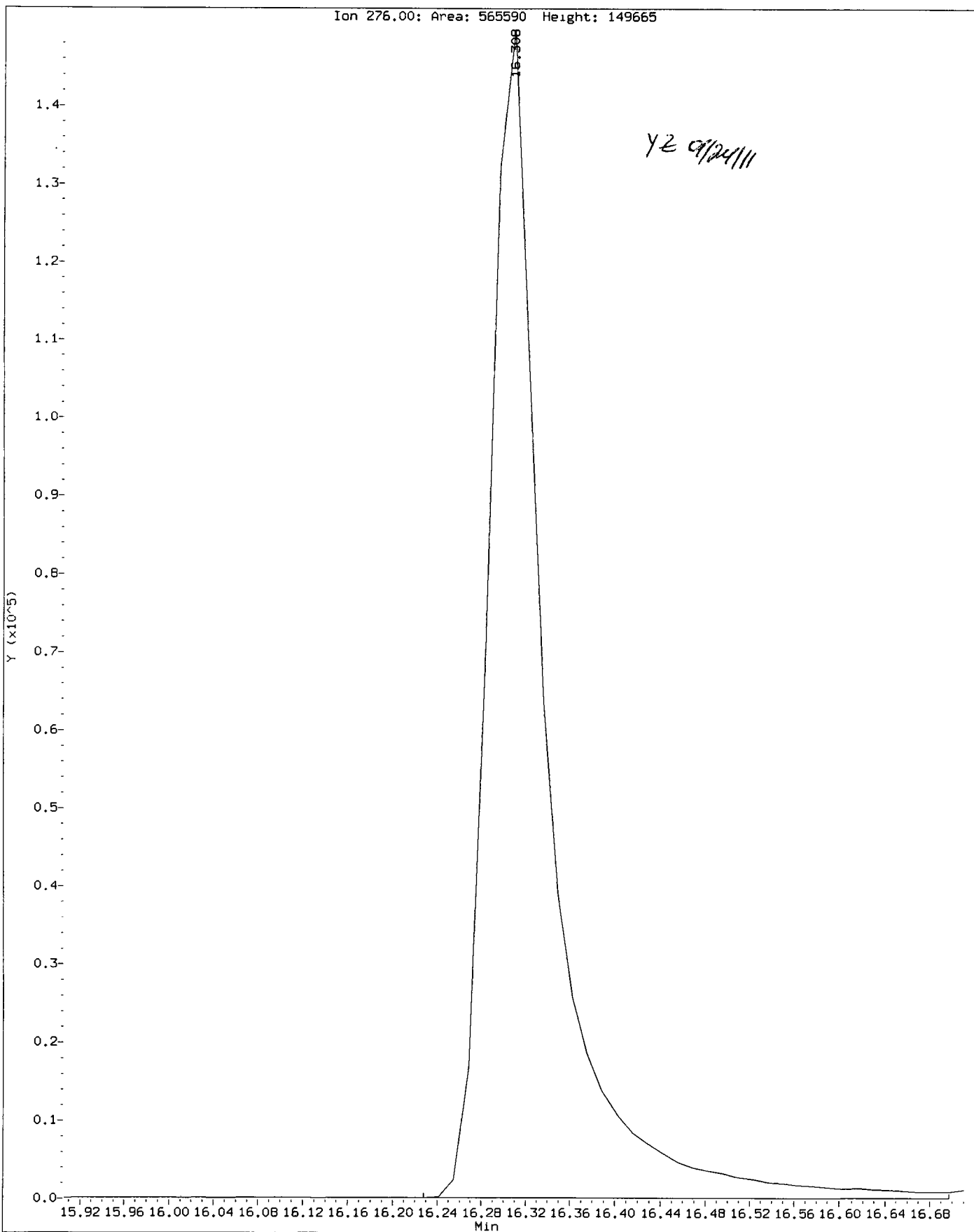
MANUAL INTEGRATION for Phenanthrene

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YE Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121d.d
Injection Date: 21-JAN-2011 16:41
Instrument: nt11.1
Client Sample ID:

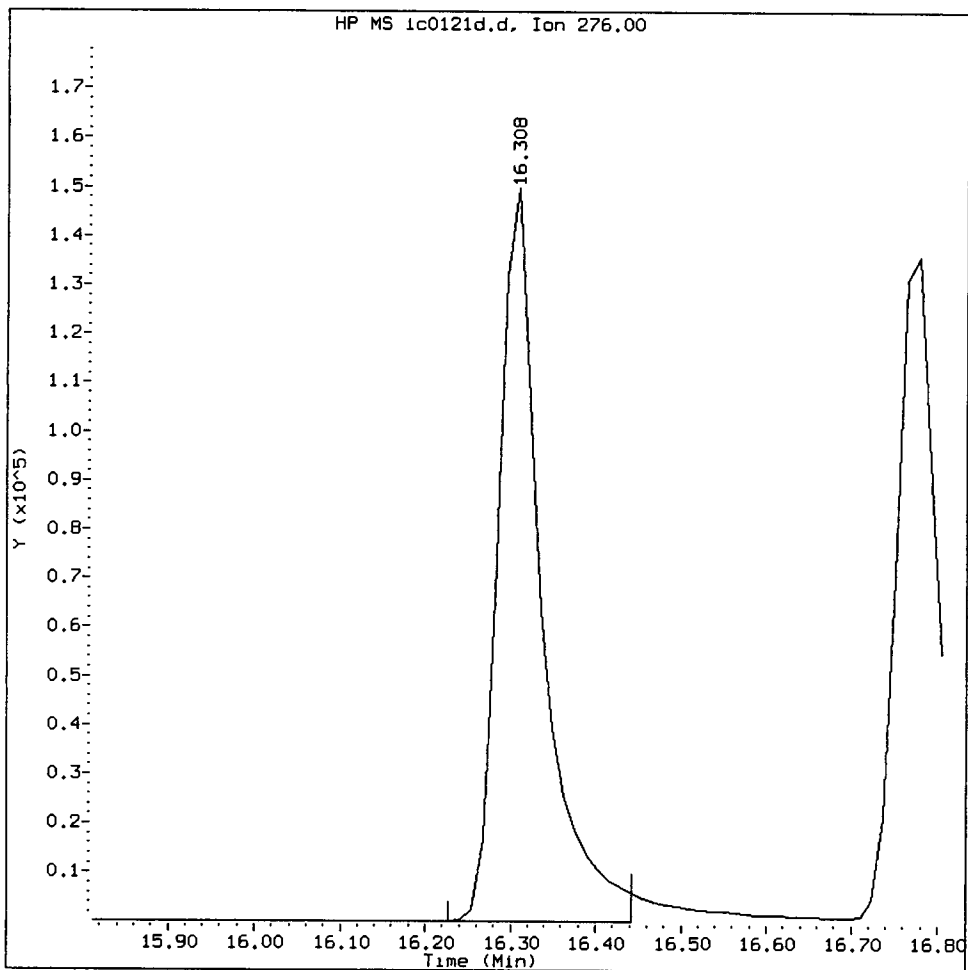
Compound: Indeno(1,2,3-cd)pyrene
CAS Number:



SF26:00671

IC0121D, /chem3/nt11.i/20110121.b/ic0121d.d

Indeno(1,2,3-cd)pyrene Amount: 594.82 Area: 535872



MANUAL INTEGRATION for Indeno(1,2,3-cd)pyrene

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

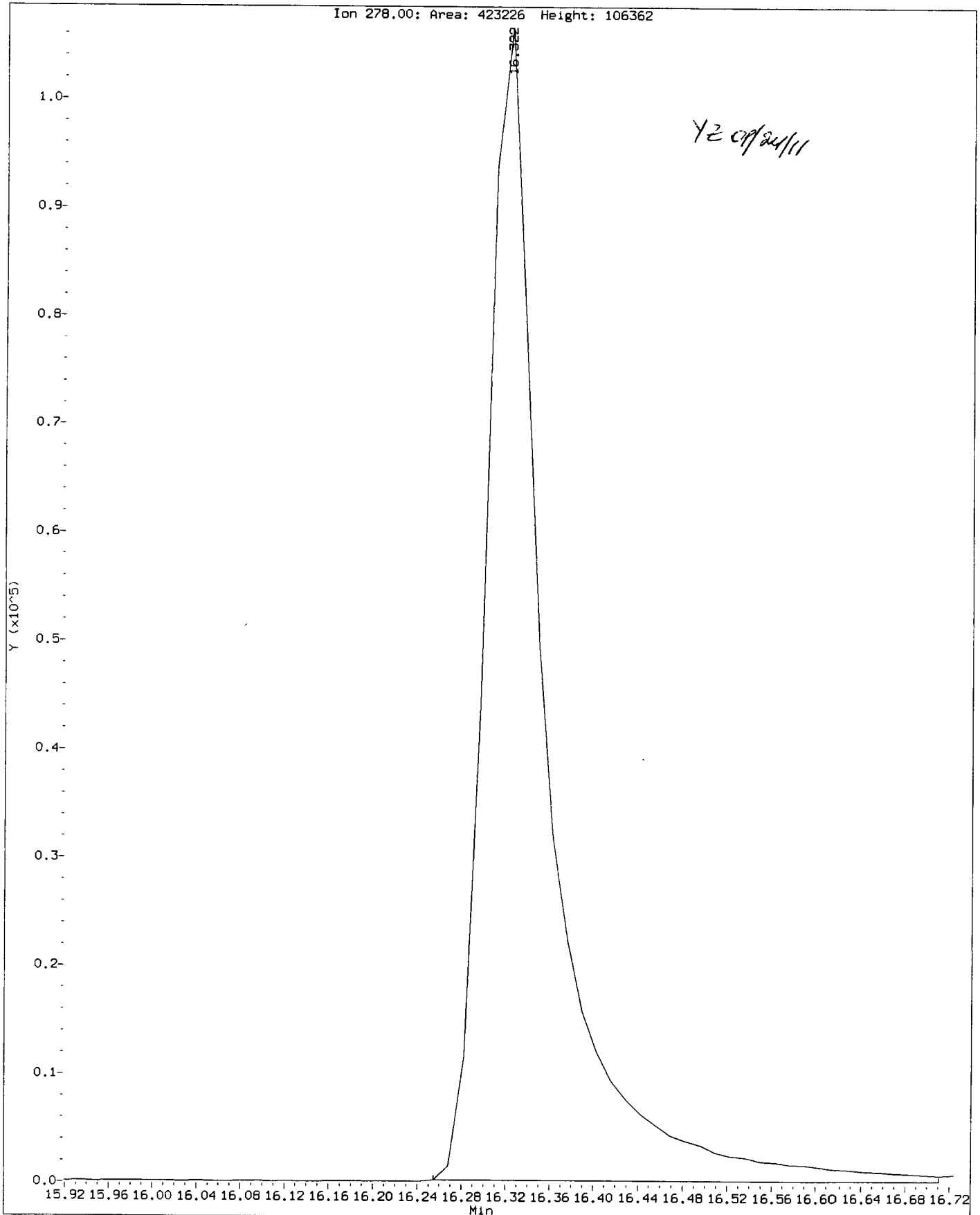
5. Other _____

Analyst: Y2

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121d.d
Injection Date: 21-JAN-2011 16:41
Instrument: nt11.1
Client Sample ID:

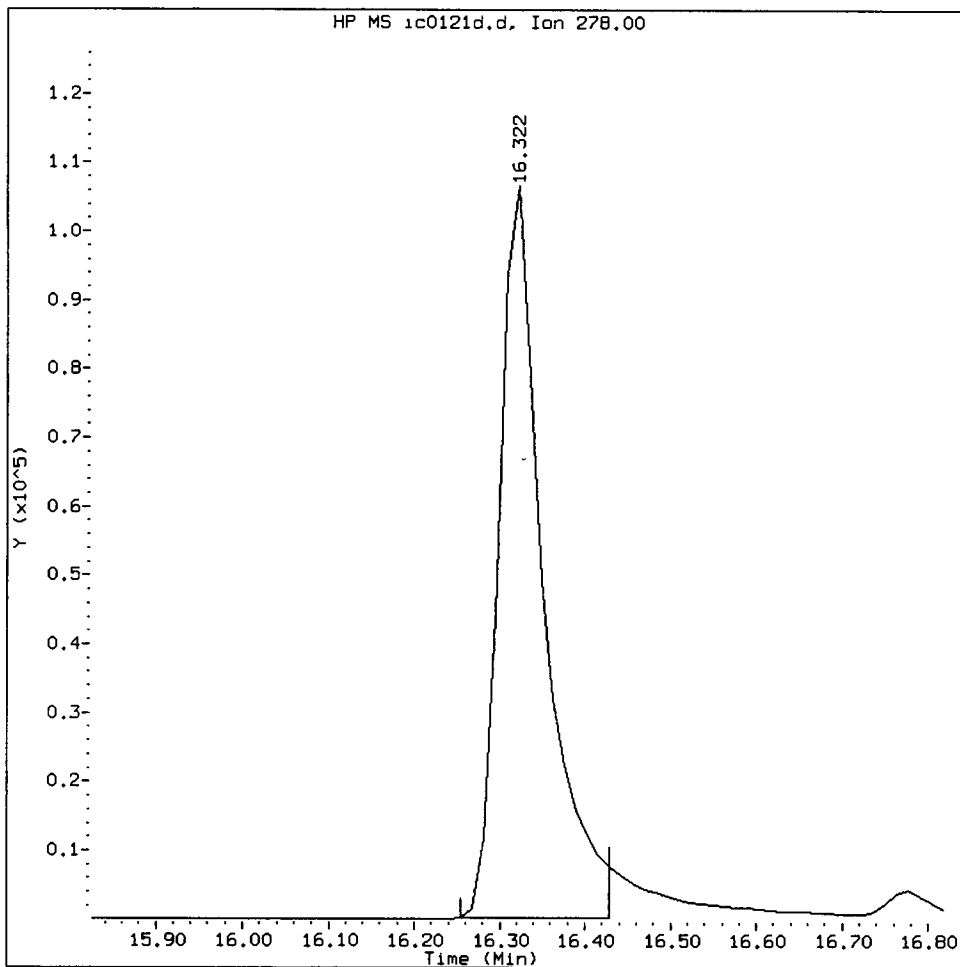
Compound: Dibenzo(a,h)anthracene
CAS Number:



3F26 . 00573

IC0121D, /chem3/nt11.i/20110121.b/ic0121d.d

Dibenzo(a,h)anthracene Amount: 581.96 Area: 388249



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

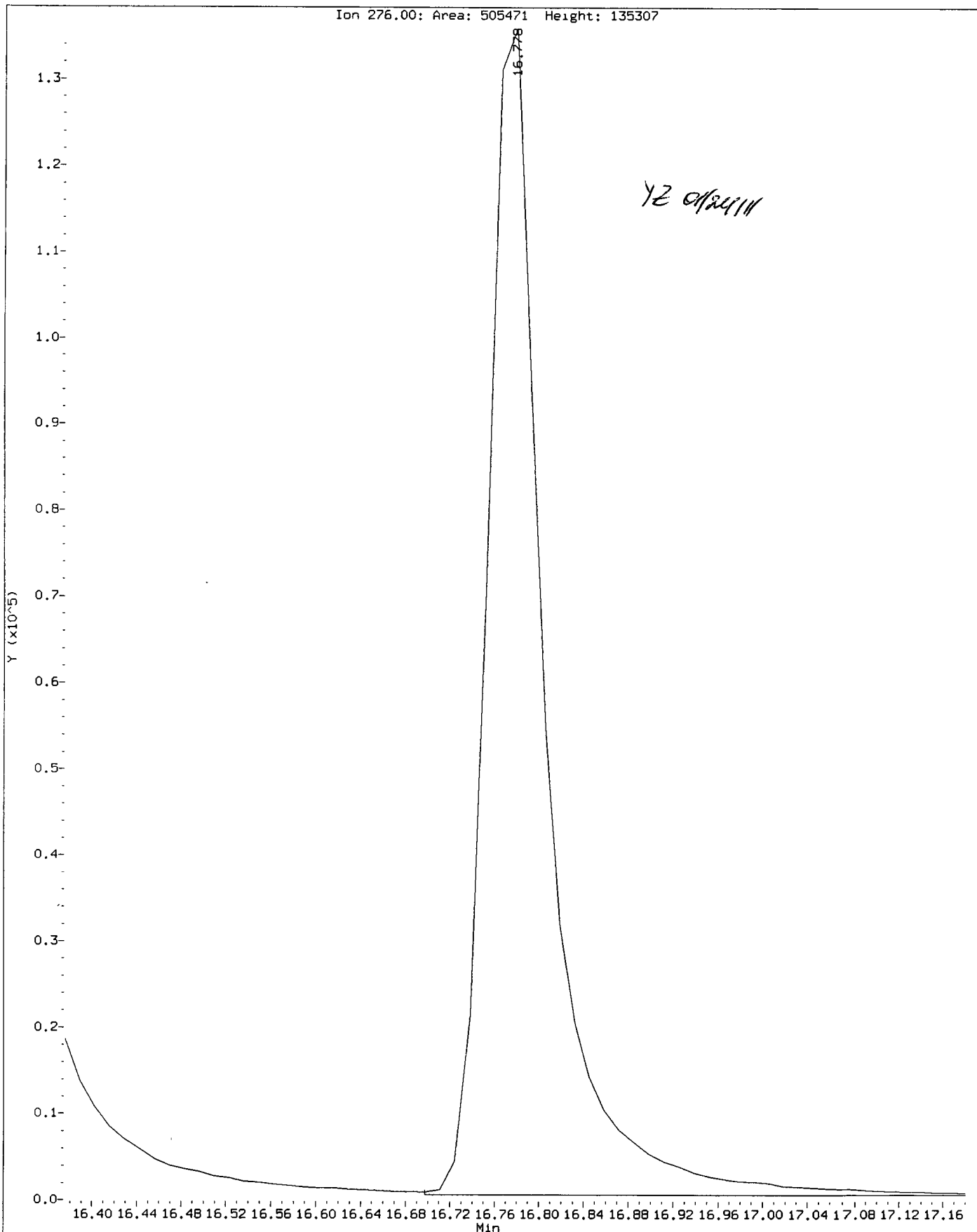
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: YE

Date: 09/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121d.d
Injection Date: 21-JAN-2011 16:41
Instrument: nt11.1
Client Sample ID:

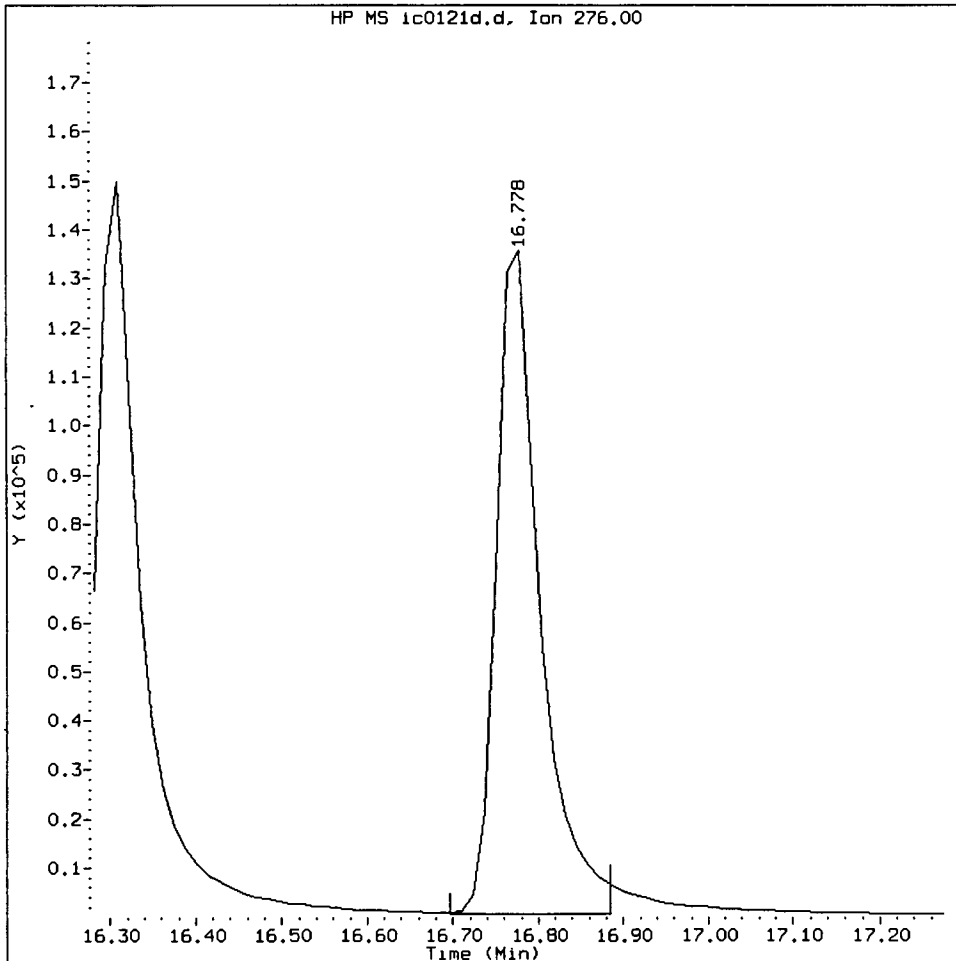
Compound: Benzo(g,h,i)perylene
CAS Number:



SF 26 . 00675

IC0121D, /chem3/nt11.i/20110121.b/ic0121d.d

Benzo(g,h,i)perylene Amount: 571.01 Area: 481244



MANUAL INTEGRATION for Benzo(g,h,i)perylene

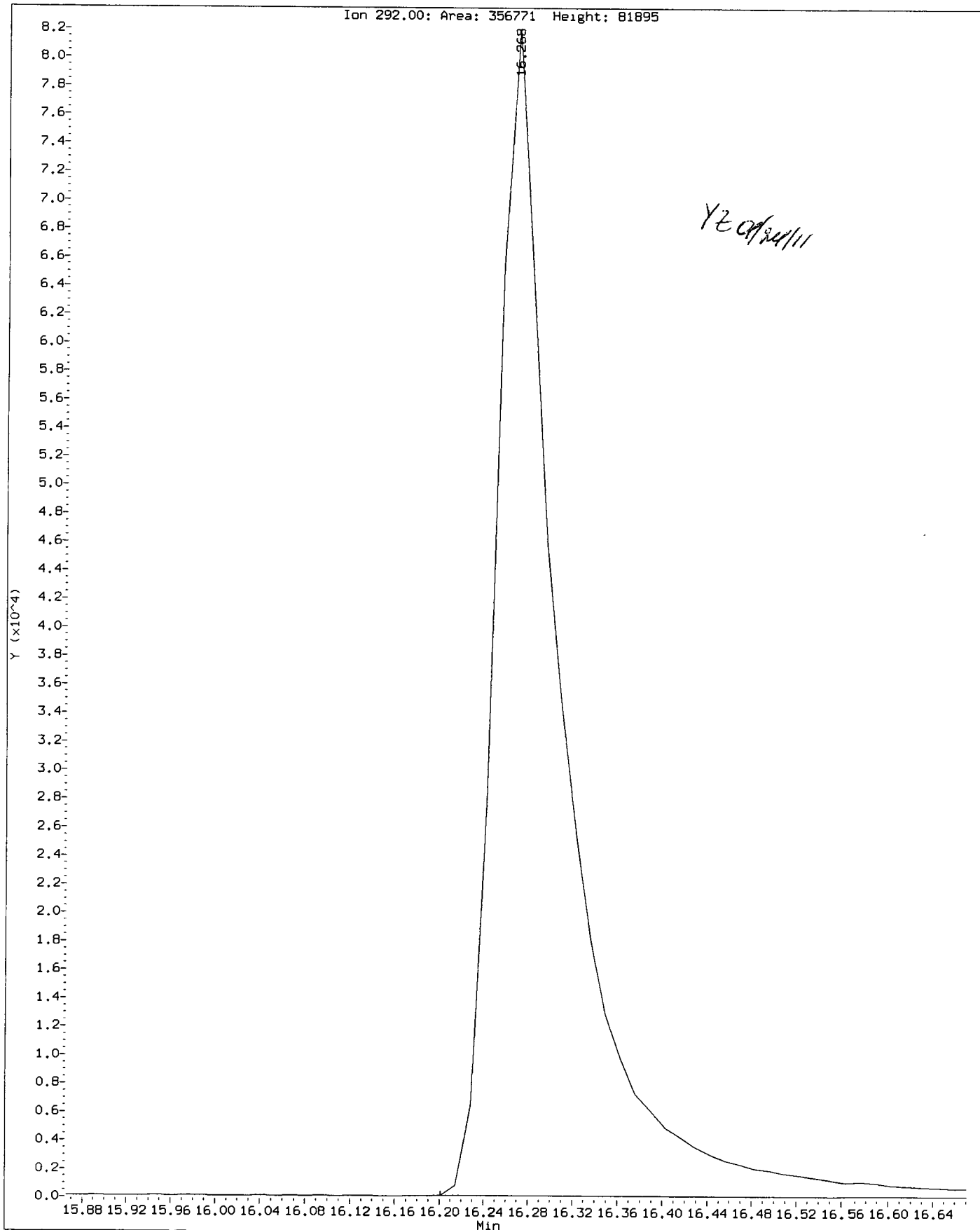
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: ylz

Date: 01/21/11

Data File: /chem3/nt11.1/20110121.b/ic0121d.d
Injection Date: 21-JAN-2011 16:41
Instrument: nt11.1
Client Sample ID:

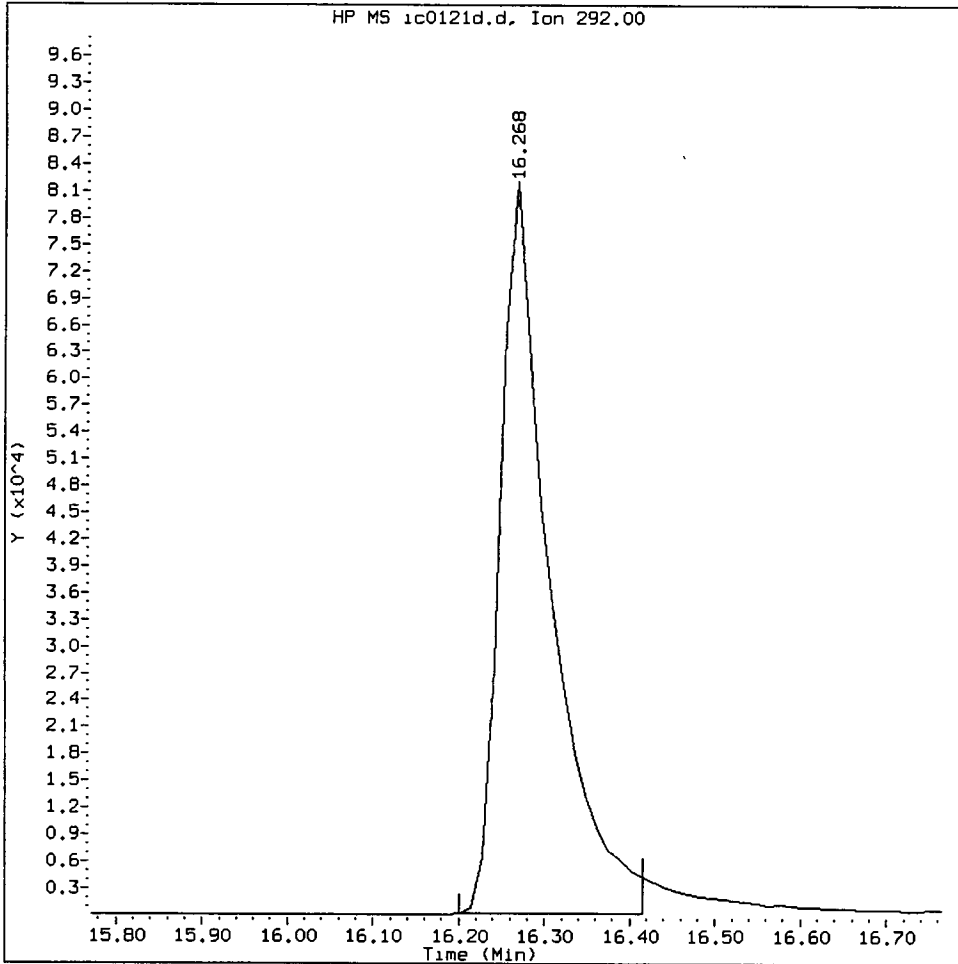
Compound: Dibenzo(a,h)anthracene-d14
CAS Number:



SF26: 00677

IC0121D, /chem3/nt11.i/20110121.b/ic0121d.d

Dibenzo(a,h)anthracene-d14 Amount: 594.32 Area: 333005



MANUAL INTEGRATION for Dibenzo(a,h)anthracene-d14

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: Y2

Date: 01/24/11

CO-ELUTION SUMMARY FOR FILE - ic0121d.d

Lab ID: IC0121D, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00679

Analytical Resources, Inc.

YE 01/24/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110121.b/ic0121e.d
Lab Smp Id: IC0121E
Inj Date : 21-JAN-2011 17:04
Operator : yz
Smp Info : IC0121E
Misc Info :
Comment :
Method : /chem3/nt11.i/20110121.b/lowsim.m
Meth Date : 24-Jan-2011 14:10 yev
Cal Date : 21-JAN-2011 17:04
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt11.i
Quant Type: ISTD
Cal File: ic0121e.d
Calibration Sample, Level: 2
Compound Sublist: pnalnm.sub

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)
* 4 Naphthalene-d8	136		5.709	5.709	(1.000)	343807	200.000	
5 Naphthalene	128		5.732	5.732	(1.004)	72300	50.0000	52.0
\$ 6 2-Methylnaphthalene-d10	152		6.537	6.526	(1.145)	41379	50.0000	50.2 (M)
7 2-Methylnaphthalene	142		6.572	6.560	(1.151)	38949	50.0000	48.8
8 1-Methylnaphthalene	142		6.698	6.698	(1.173)	38996	50.0000	48.4
10 Acenaphthylene	152		7.680	7.680	(0.976)	54255	50.0000	47.9
* 11 Acenaphthene-d10	164		7.867	7.867	(1.000)	174830	200.000	
12 Acenaphthene	153		7.908	7.894	(1.005)	39972	50.0000	51.6
14 Dibenzofuran	168		8.109	8.109	(1.031)	57885	50.0000	50.4
15 Fluorene	166		8.524	8.524	(1.083)	37563	50.0000	48.7
* 18 Phenanthrene-d10	188		9.691	9.691	(1.000)	283946	200.000	
19 Phenanthrene	178		9.718	9.704	(1.003)	60338	50.0000	52.7
20 Anthracene	178		9.771	9.771	(1.008)	56436	50.0000	51.1
24 Fluoranthene	202		11.192	11.192	(1.155)	50877	50.0000	47.1
25 Pyrene	202		11.474	11.474	(0.884)	53943	50.0000	50.8
28 Benzo (a) anthracene	228		12.963	12.963	(0.999)	32834	50.0000	47.5
* 29 Chrysene-d12	240		12.976	12.976	(1.000)	171339	200.000	
30 Chrysene	228		13.016	13.003	(1.003)	53182	50.0000	52.8 (M)
43 Total Benzofluoranthenes	252		14.251	14.251	(0.969)	71240	100.000	98.5 (M)
34 Benzo (a) pyrene	252		14.631	14.619	(0.995)	24634	50.0000	45.8
* 35 Perylene-d12	264		14.700	14.700	(1.000)	126579	200.000	
37 Indeno (1,2,3-cd) pyrene	276		16.322	16.308	(1.110)	35046	50.0000	48.8
\$ 36 Dibenzo (a, h) anthracene-d14	292		16.281	16.268	(1.108)	21410	50.0000	47.9
38 Dibenzo (a, h) anthracene	278		16.335	16.322	(1.111)	25121	50.0000	47.2
39 Benzo (g, h, i) perylene	276		16.791	16.778	(1.142)	32229	50.0000	48.0 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem3/nt11.i/20110121.b/1c0121e.d

Date: 21-JAN-2011 17:04

Client ID:

Sample Info: IC0121E

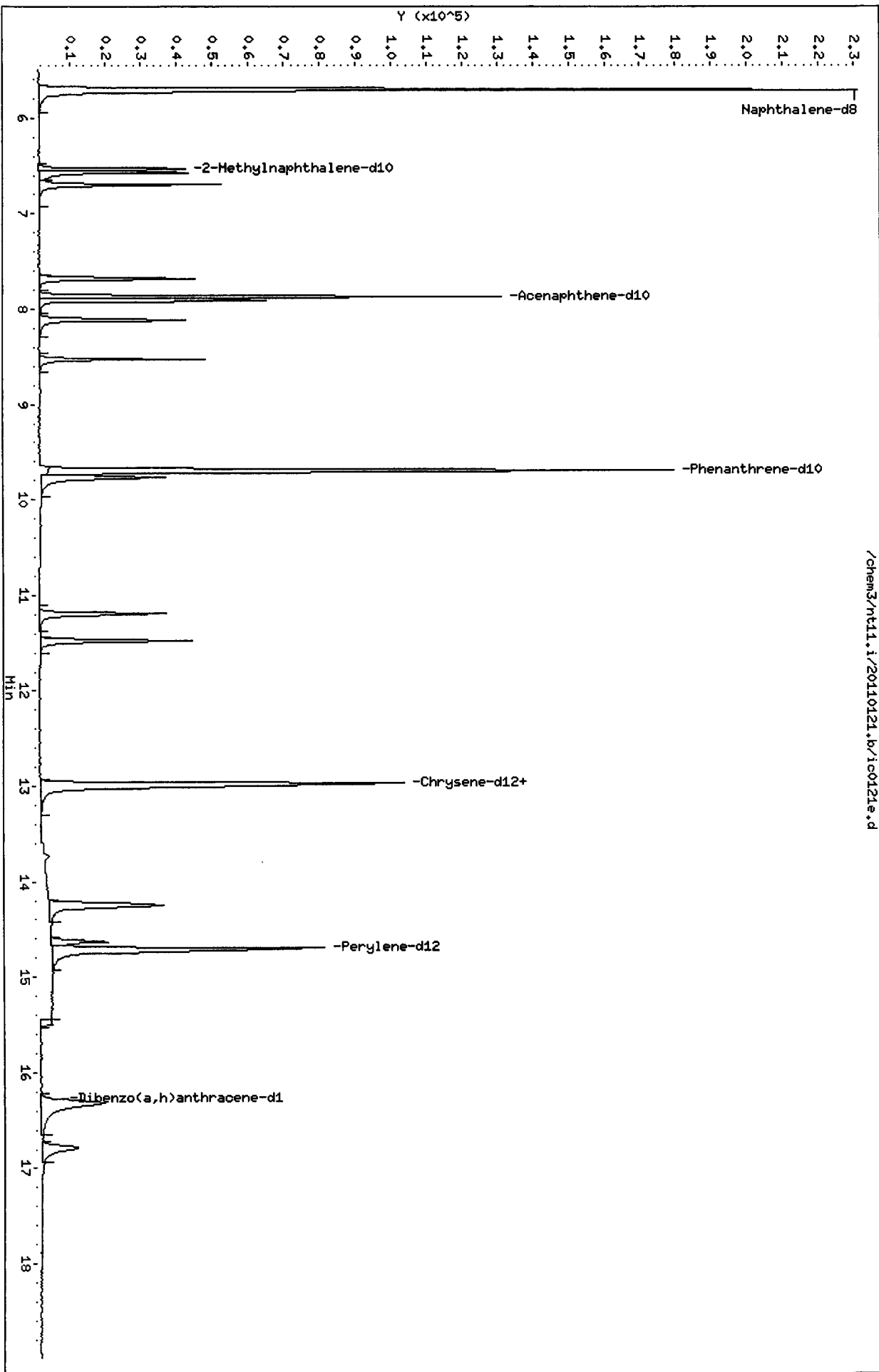
Column phase: ZB-5ms1

Instrument: nt11.i

Operator: yz

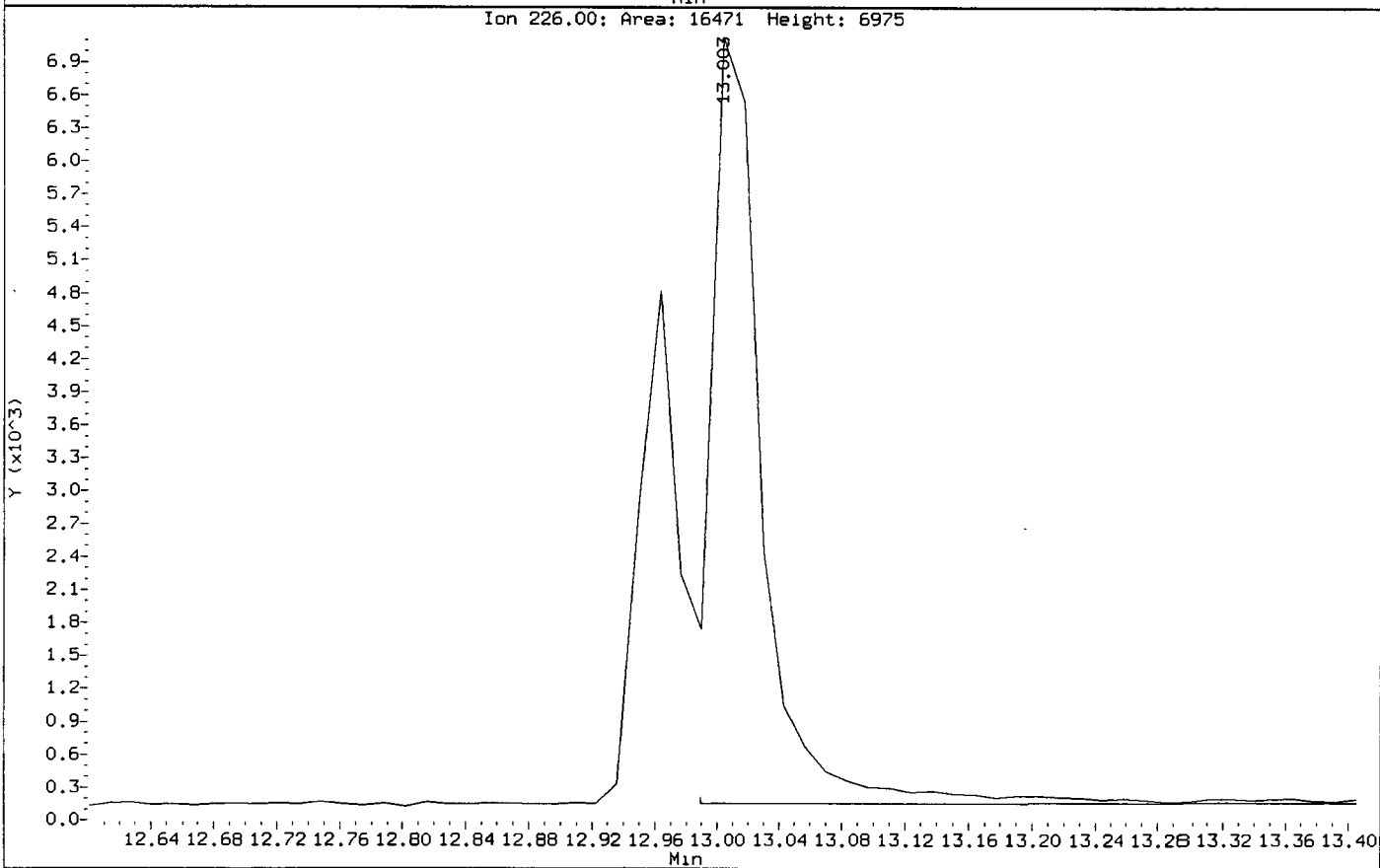
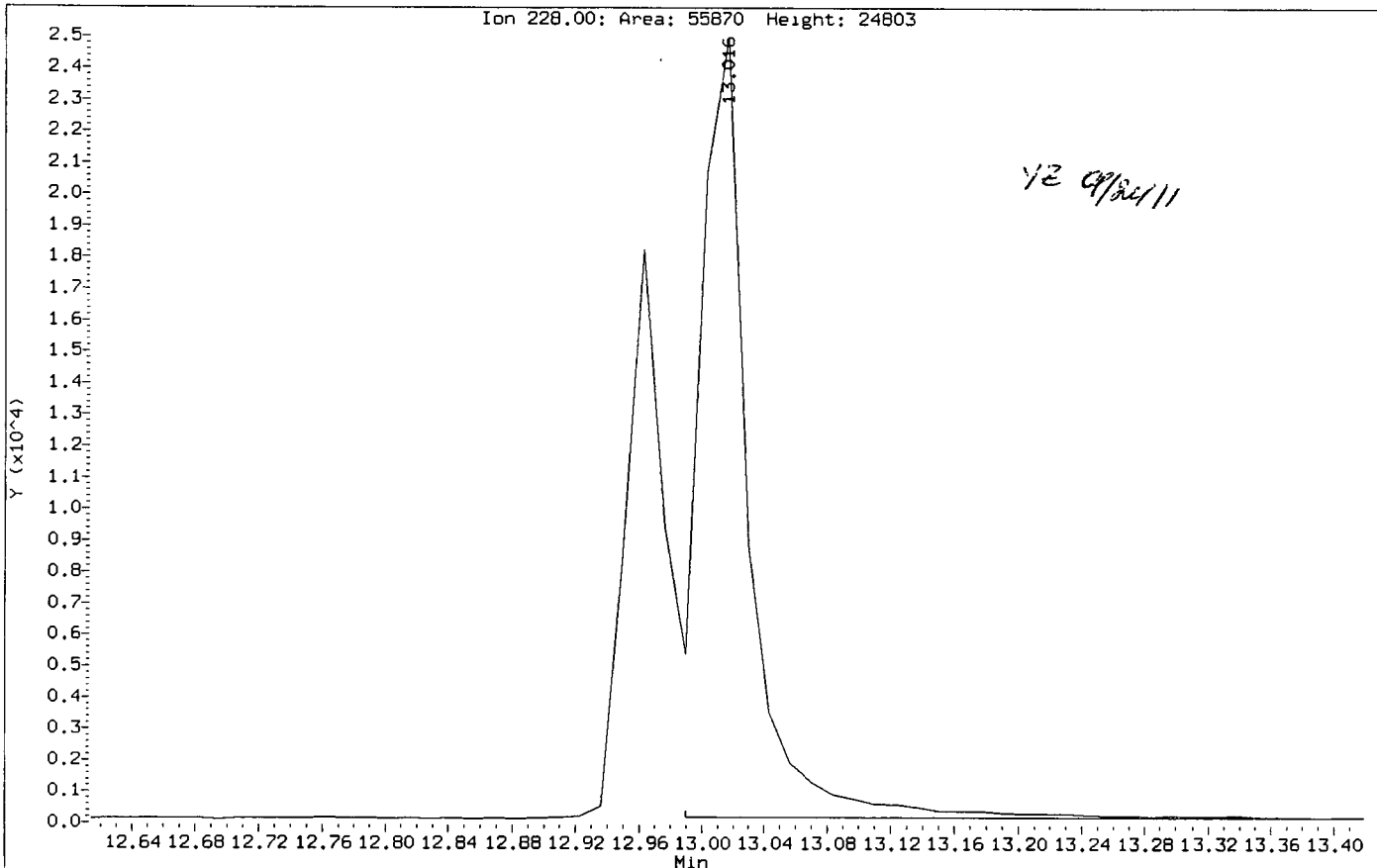
Column diameter: 0.25

/chem3/nt11.i/20110121.b/1c0121e.d



Data File: /chem3/nt11.1/20110121.b/ic0121e.d
Injection Date: 21-JAN-2011 17:04
Instrument: nt11.1
Client Sample ID:

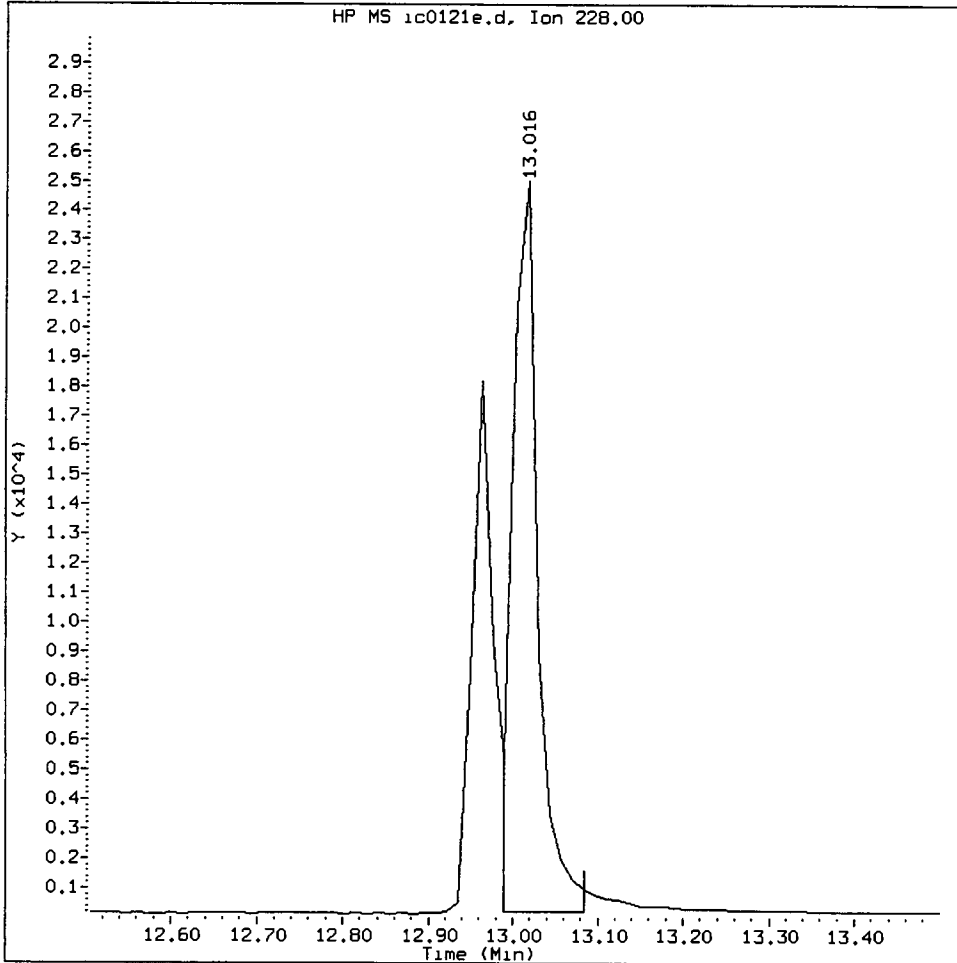
Compound: Chrysene
CAS Number:



SF26: 00684

IC0121E, /chem3/nt11.i/20110121.b/ic0121e.d

Chrysene Amount: 52.83 Area: 53182



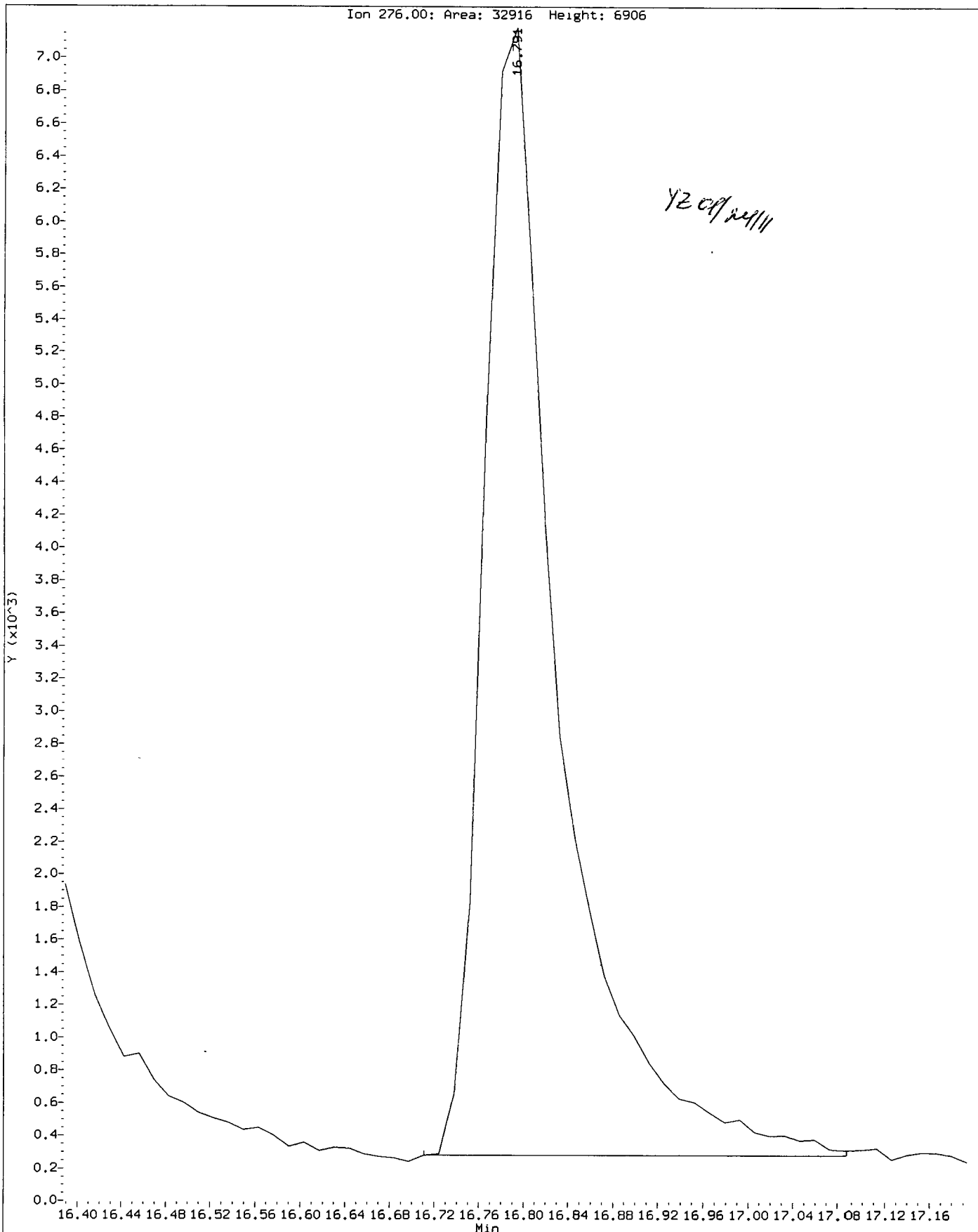
MANUAL INTEGRATION for Chrysene

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121e.d
Injection Date: 21-JAN-2011 17:04
Instrument: nt11.1
Client Sample ID:

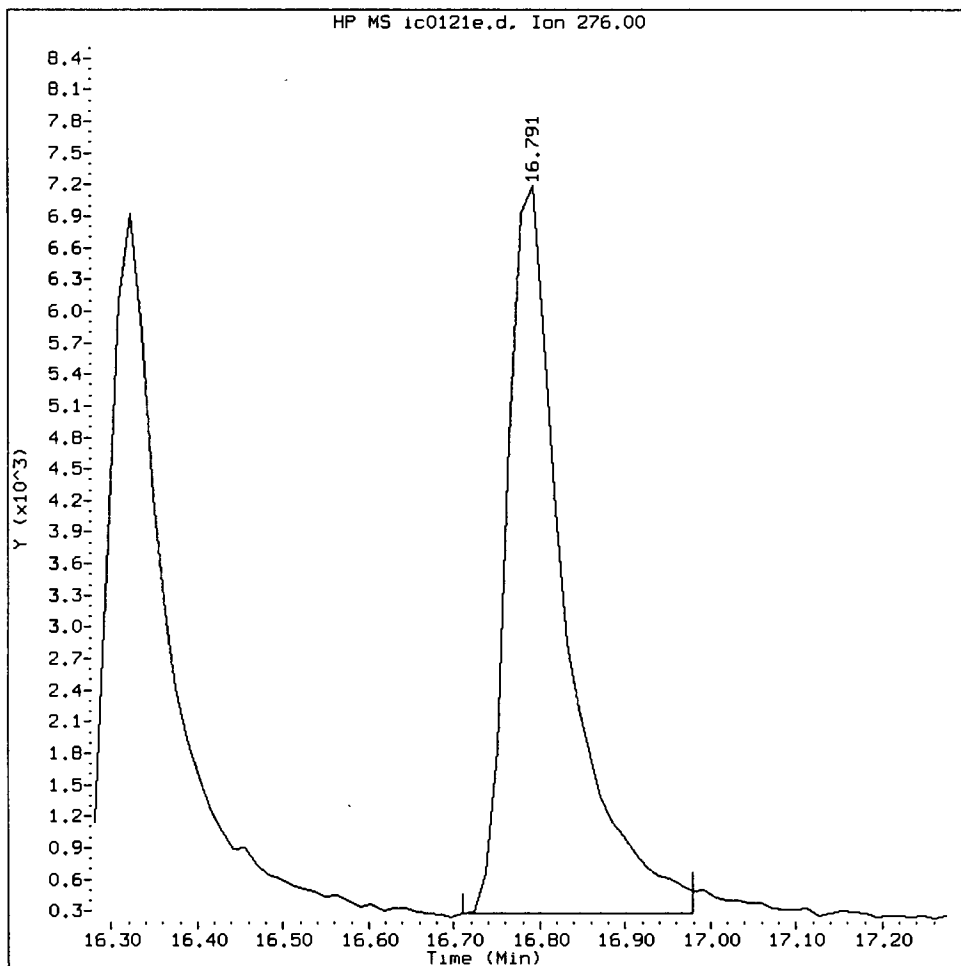
Compound: Benzo(g,h,i)perylene
CAS Number:



SF26:00686

IC0121E, /chem3/nt11.i/20110121.b/ic0121e.d

Benzo(g,h,i)perylene Amount: 47.95 Area: 32229



MANUAL INTEGRATION for Benzo(g,h,i)perylene

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

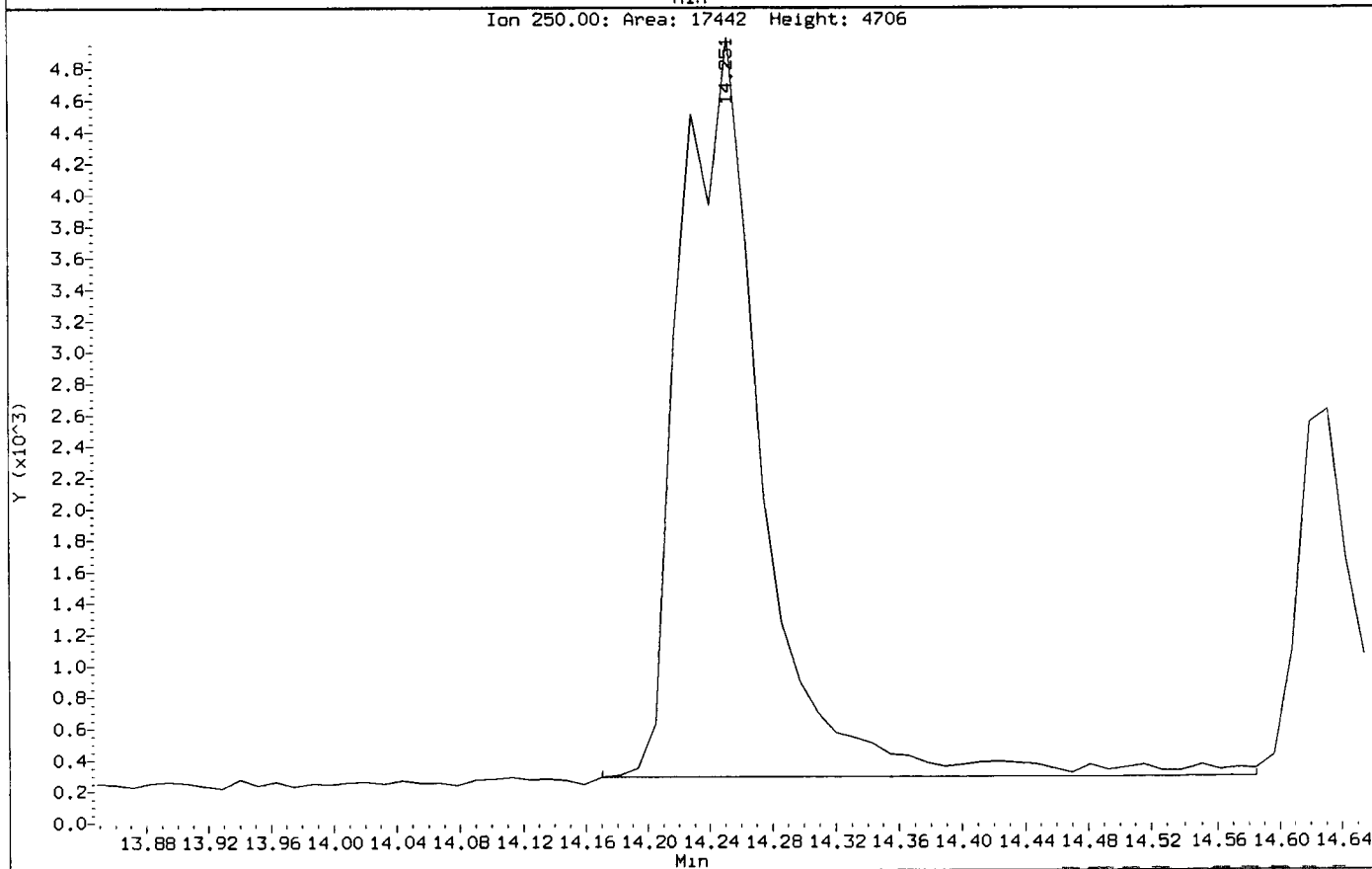
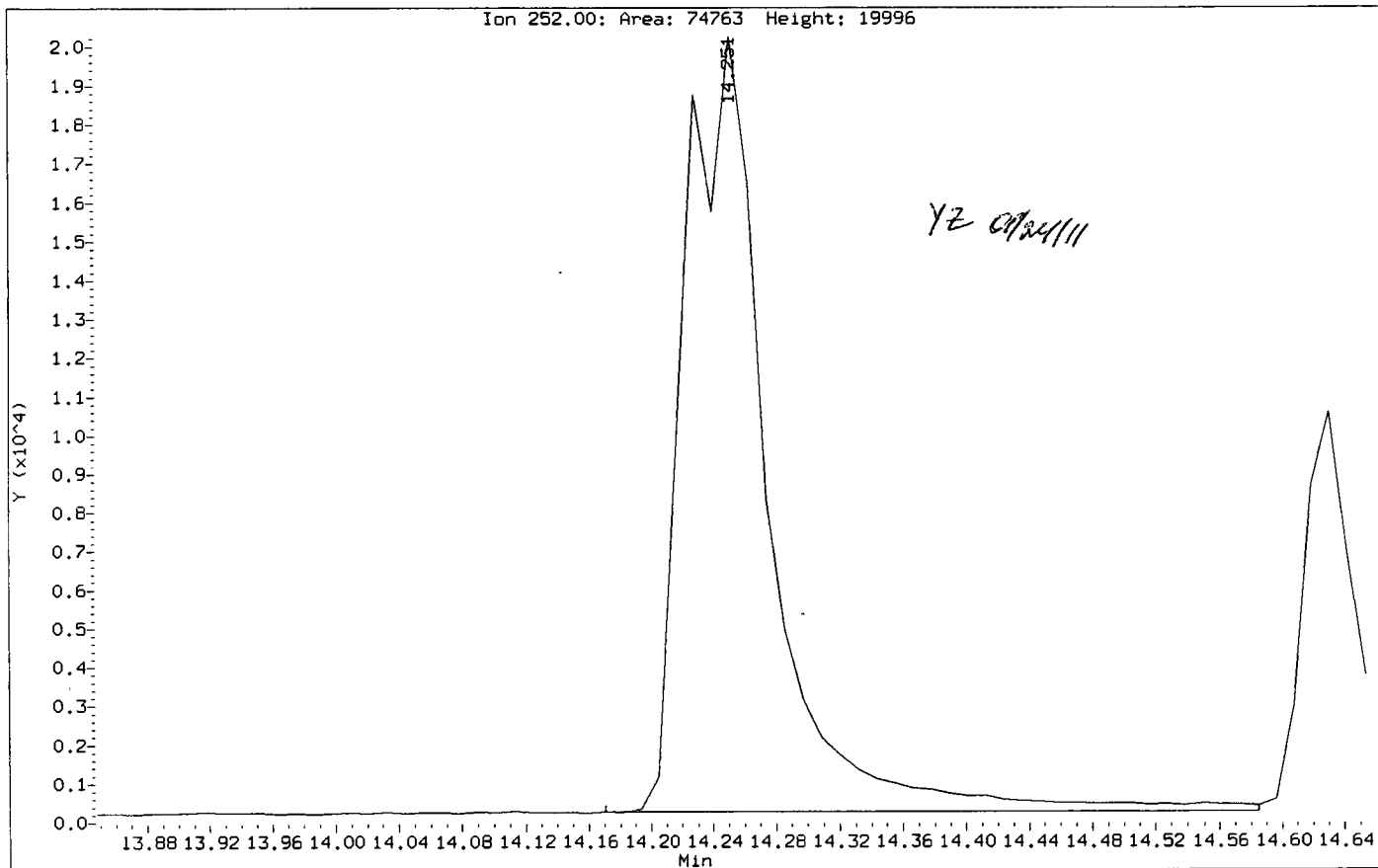
5. Other _____

Analyst: Y2

Date: 04/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121e.d
Injection Date: 21-JAN-2011 17:04
Instrument: nt11.1
Client Sample ID:

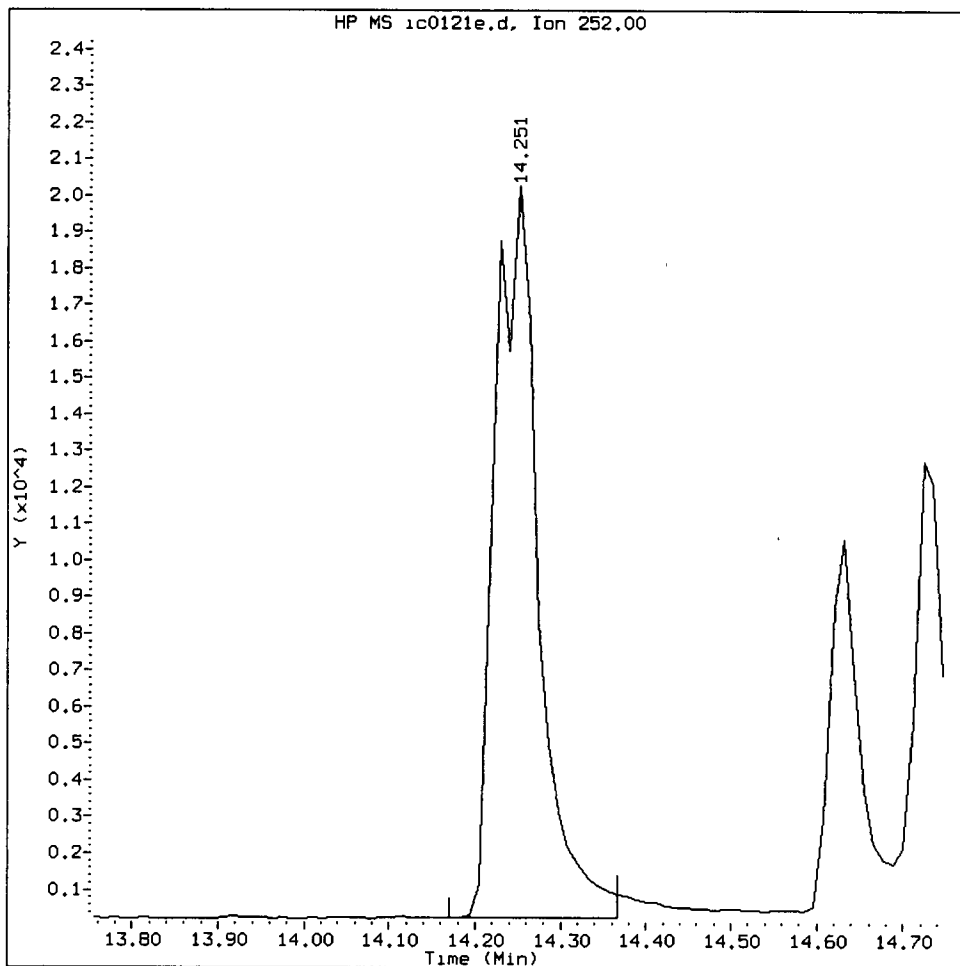
Compound: Total Benzofluoranthenes
CAS Number:



SF25: 00688

IC0121E, /chem3/nt11.i/20110121.b/ic0121e.d

Total Benzofluoranthenes Amount: 98.47 Area: 71240



MANUAL INTEGRATION for Total Benzofluoranthenes

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

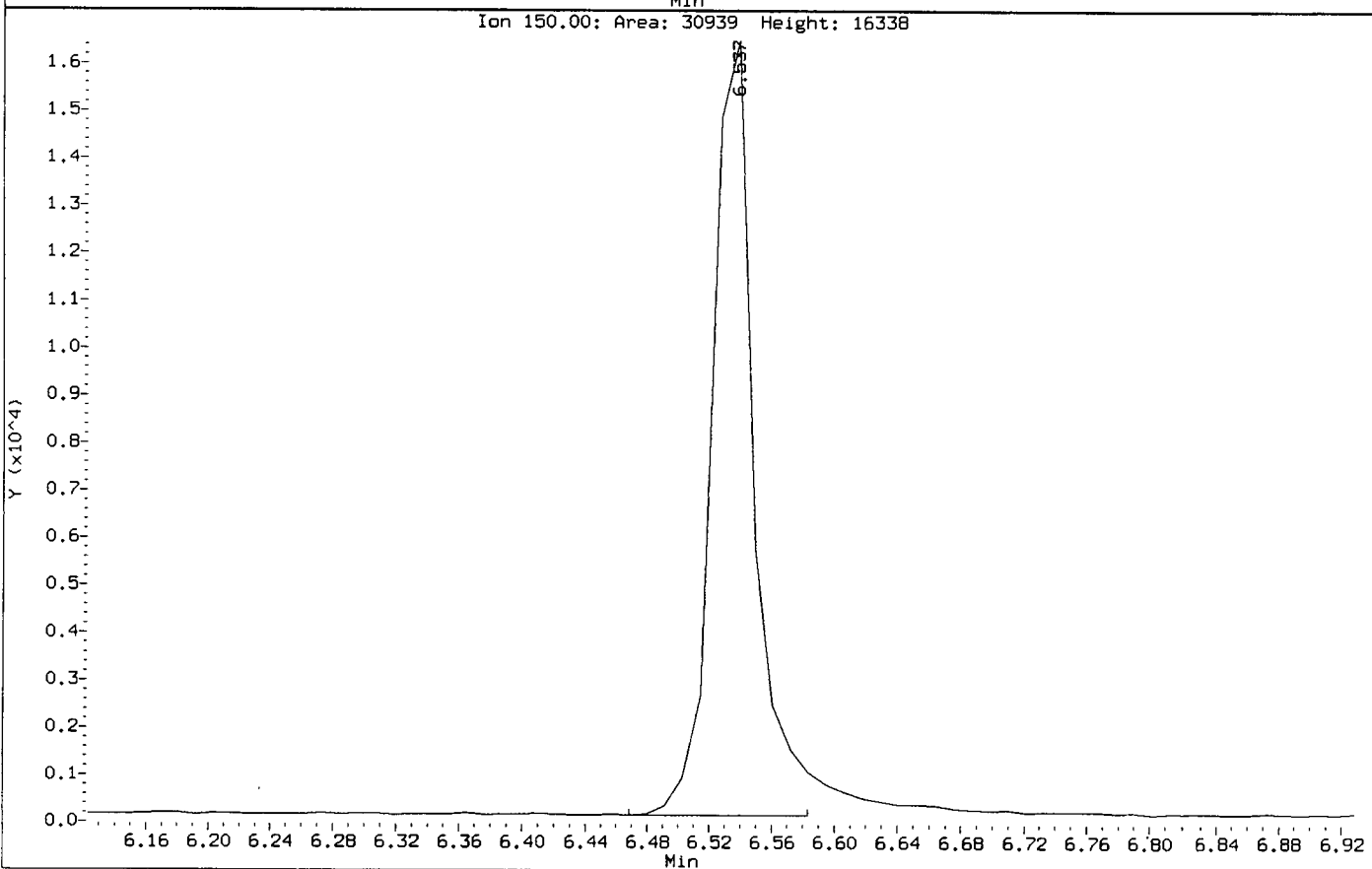
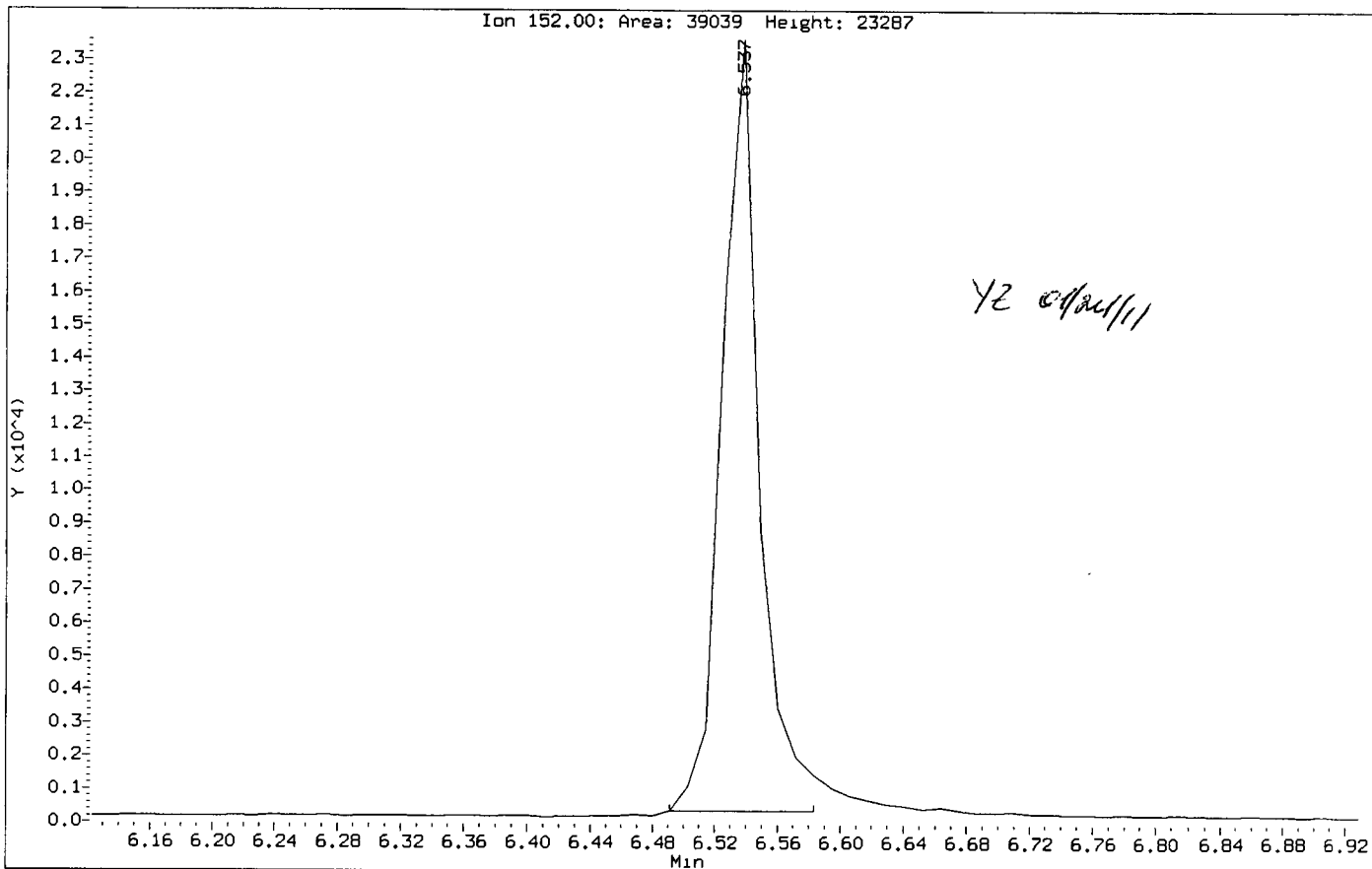
5. Other _____

Analyst: Y2

Date: 2/24/11

Data File: /chem3/nt11.i/20110121.b/ic0121e.d
Injection Date: 21-JAN-2011 17:04
Instrument: nt11.i
Client Sample ID:

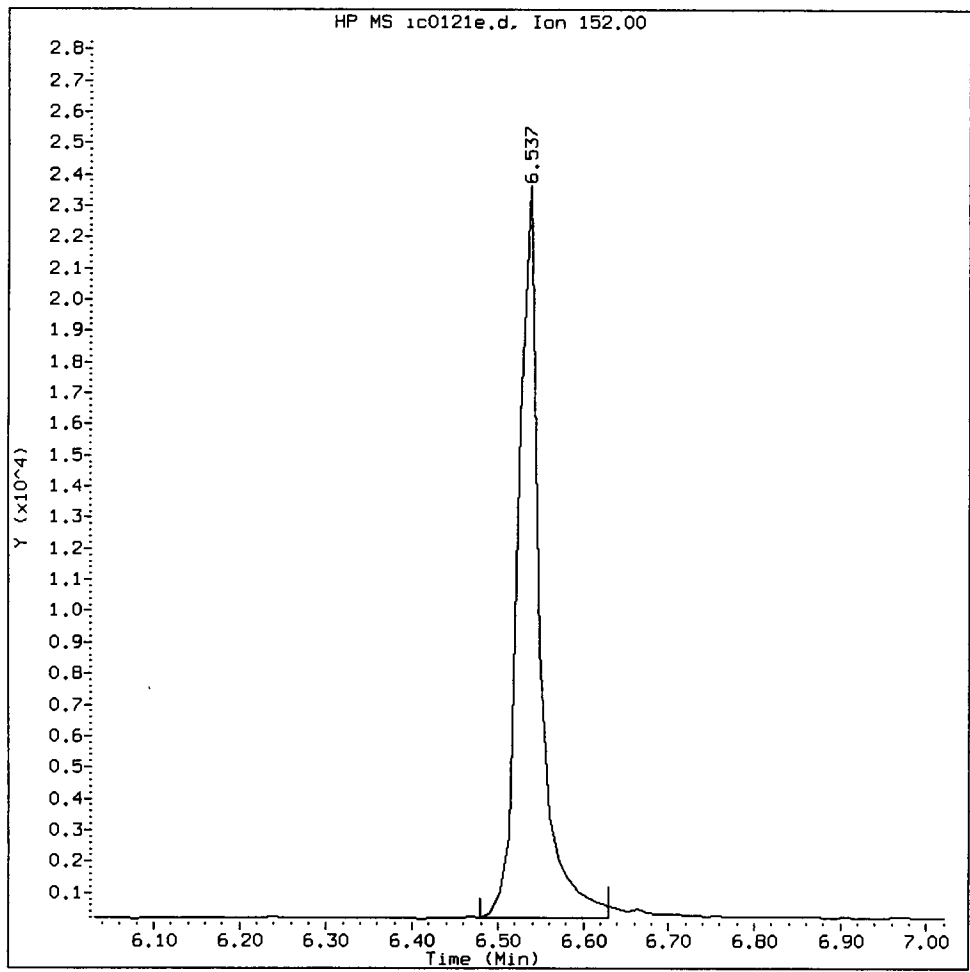
Compound: 2-Methylnaphthalene-d10
CAS Number:



SF26:00690

IC0121E, /chem3/nt11.i/20110121.b/ic0121e.d

2-Methylnaphthalene-d10 Amount: 50.19 Area: 41379



MANUAL INTEGRATION for 2-Methylnaphthalene-d10

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YE

Date: 6/24/11

CO-ELUTION SUMMARY FOR FILE - ic0121e.d

Lab ID: IC0121E, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00692

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110121.b/ic0121f.d YZ 01/24/11
 Lab Smp Id: IC0121F
 Inj Date : 21-JAN-2011 17:28
 Operator : yz Inst ID: nt11.i
 Smp Info : IC0121F
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110121.b/lowsim.m
 Meth Date : 24-Jan-2011 14:10 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalnm.sub
 Target Version: 3.50

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)
* 4 Naphthalene-d8	136		5.709	5.709	(1.000)	343528	200.000	
5 Naphthalene	128		5.732	5.732	(1.004)	135390	100.000	97.4
\$ 6 2-Methylnaphthalene-d10	152		6.537	6.526	(1.145)	80126	100.000	97.3
7 2-Methylnaphthalene	142		6.572	6.560	(1.151)	77543	100.000	97.3
8 1-Methylnaphthalene	142		6.698	6.698	(1.173)	74495	100.000	92.5
10 Acenaphthylene	152		7.680	7.680	(0.976)	103041	100.000	89.2
* 11 Acenaphthene-d10	164		7.867	7.867	(1.000)	178276	200.000	
12 Acenaphthene	153		7.908	7.894	(1.005)	73814	100.000	93.4 (M)
14 Dibenzofuran	168		8.109	8.109	(1.031)	109726	100.000	93.8
15 Fluorene	166		8.524	8.524	(1.083)	72005	100.000	91.6
* 18 Phenanthrene-d10	188		9.691	9.691	(1.000)	296912	200.000	(M)
19 Phenanthrene	178		9.704	9.704	(1.001)	112906	100.000	94.2 (M)
20 Anthracene	178		9.771	9.771	(1.000)	103819	100.000	89.8
24 Fluoranthene	202		11.192	11.192	(1.000)	98130	100.000	86.8
25 Pyrene	202		11.474	11.474	(0.884)	108742	100.000	91.4
28 Benzo (a) anthracene	228		12.963	12.963	(0.999)	64815	100.000	83.7
* 29 Chrysene-d12	240		12.976	12.976	(1.000)	192041	200.000	
30 Chrysene	228		13.003	13.003	(1.002)	103371	100.000	91.6
43 Total Benzofluoranthenes	252		14.251	14.251	(0.969)	141327	200.000	170 (M)
34 Benzo (a) pyrene	252		14.619	14.619	(0.995)	48951	100.000	79.0
* 35 Perylene-d12	264		14.700	14.700	(1.000)	145718	200.000	
37 Indeno (1,2,3-cd) pyrene	276		16.308	16.308	(1.109)	70053	100.000	84.7
\$ 36 Dibenzo (a,h) anthracene-d14	292		16.268	16.268	(1.107)	42261	100.000	82.2 (M)
38 Dibenzo (a,h) anthracene	278		16.322	16.322	(1.110)	50848	100.000	83.0 (M)
39 Benzo (g,h,i) perylene	276		16.778	16.778	(1.141)	64434	100.000	83.3 (M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: ic0121f.d
 Lab Smp Id: IC0121F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

Calibration Date: 21-JAN-2011
 Calibration Time: 17:52
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	343528	0.29
11 Acenaphthene-d10	185015	92508	370030	178276	-3.64
18 Phenanthrene-d10	320966	160483	641932	296912	-7.49
29 Chrysene-d12	212759	106380	425518	192041	-9.74
35 Perylene-d12	156605	78302	313210	145718	-6.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	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: /chem3/nt11.i/20110121.b/i00121f.d
Date: 21-JAN-2011 17:28

Client ID:

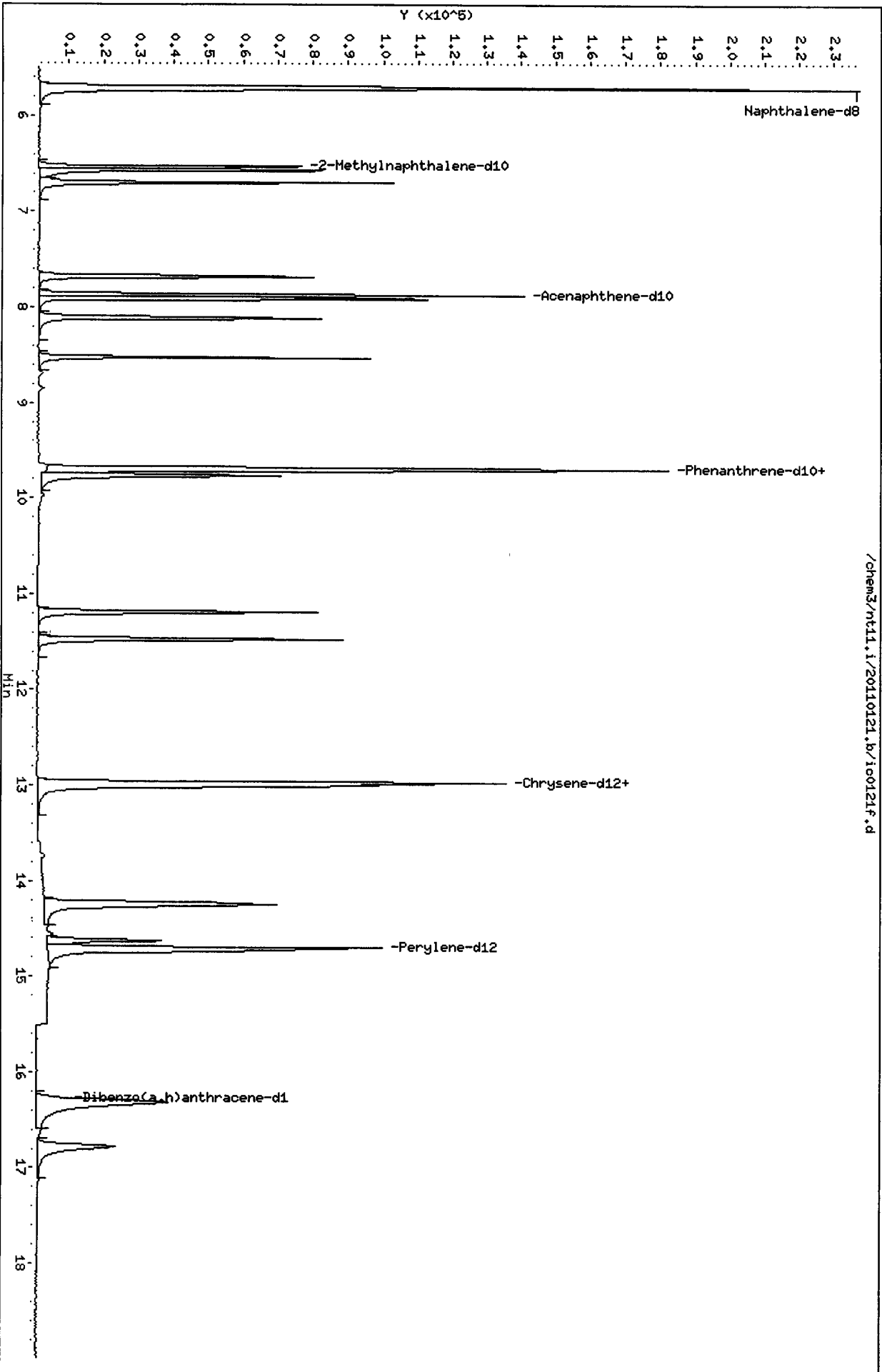
Sample Info: IC0121F

Column phase: ZB-Sms1

Instrument: nt11.i

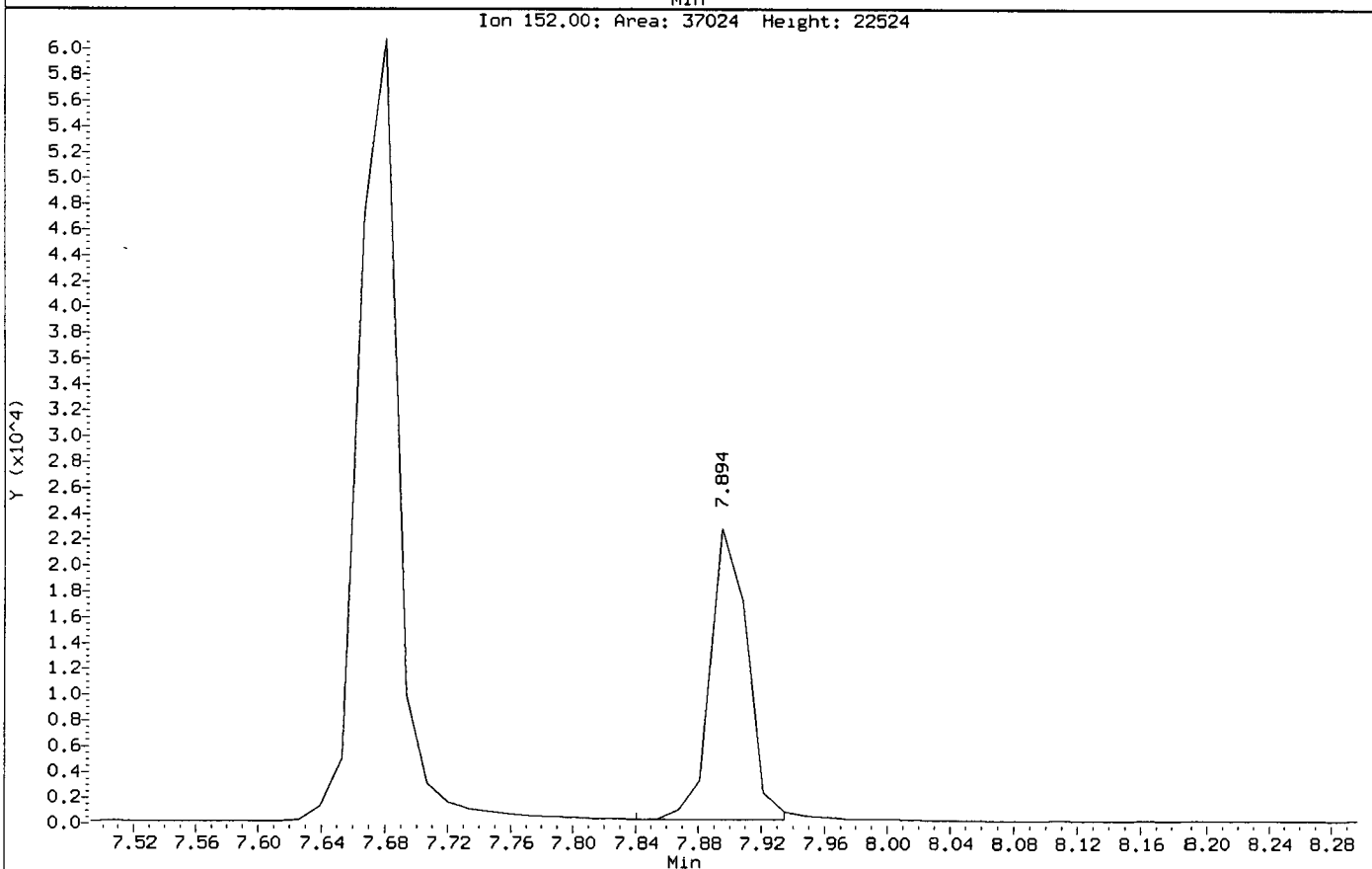
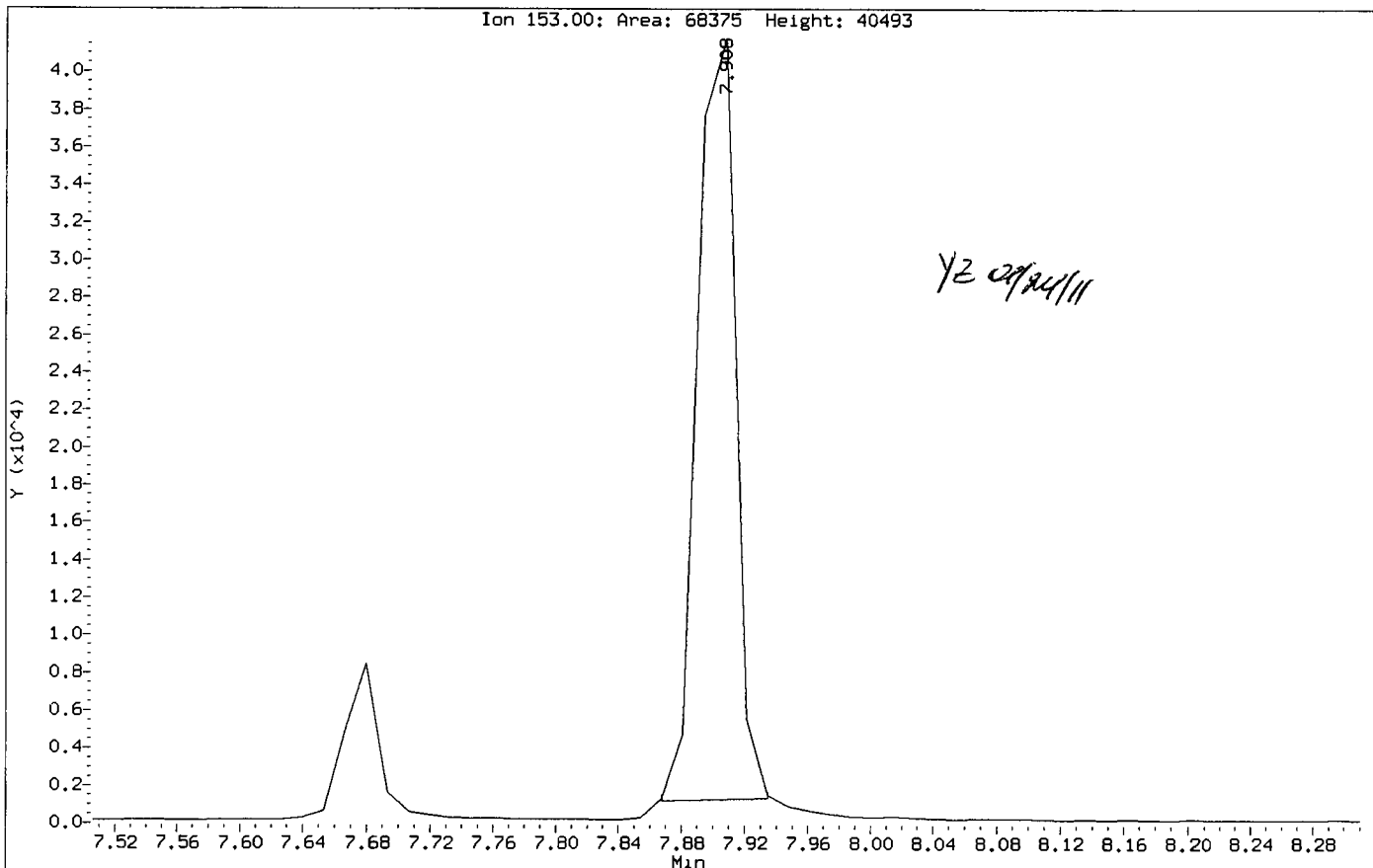
Operator: yz

Column diameter: 0.25



Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

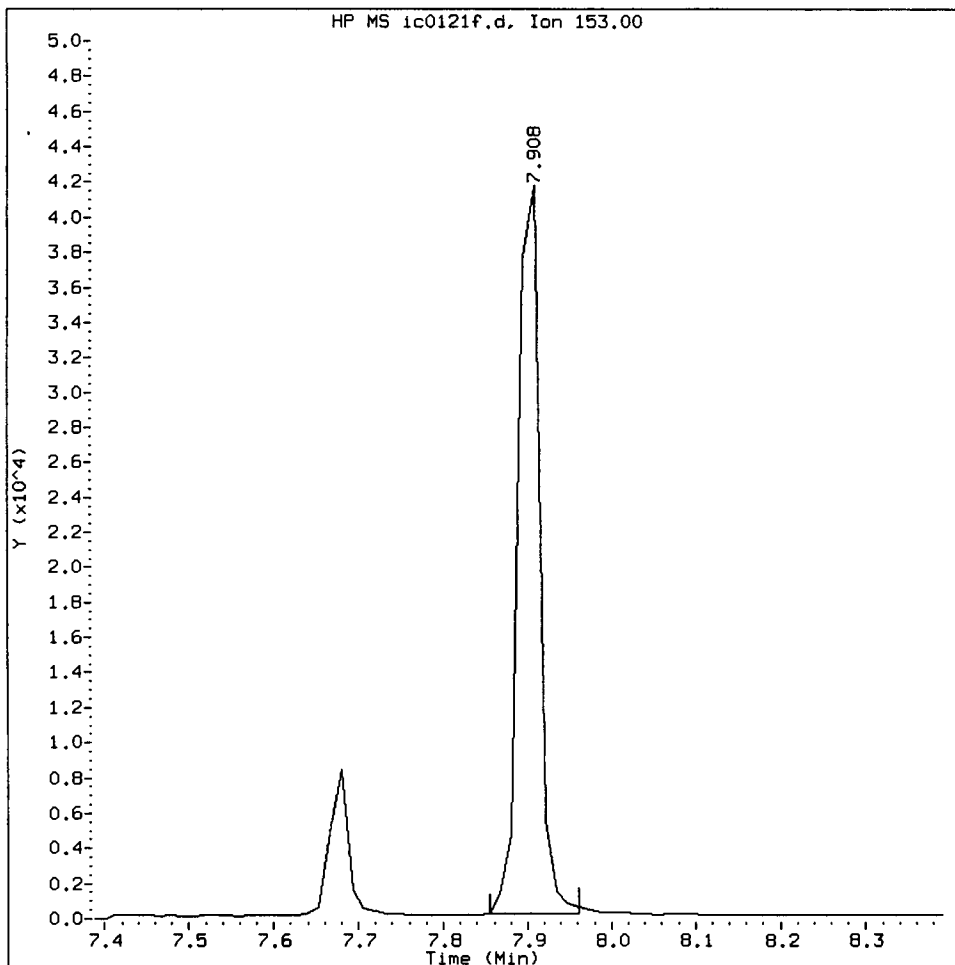
Compound: Acenaphthene
CAS Number:



SF26 : 00637

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Acenaphthene Amount: 93.44 Area: 73814



MANUAL INTEGRATION for Acenaphthene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

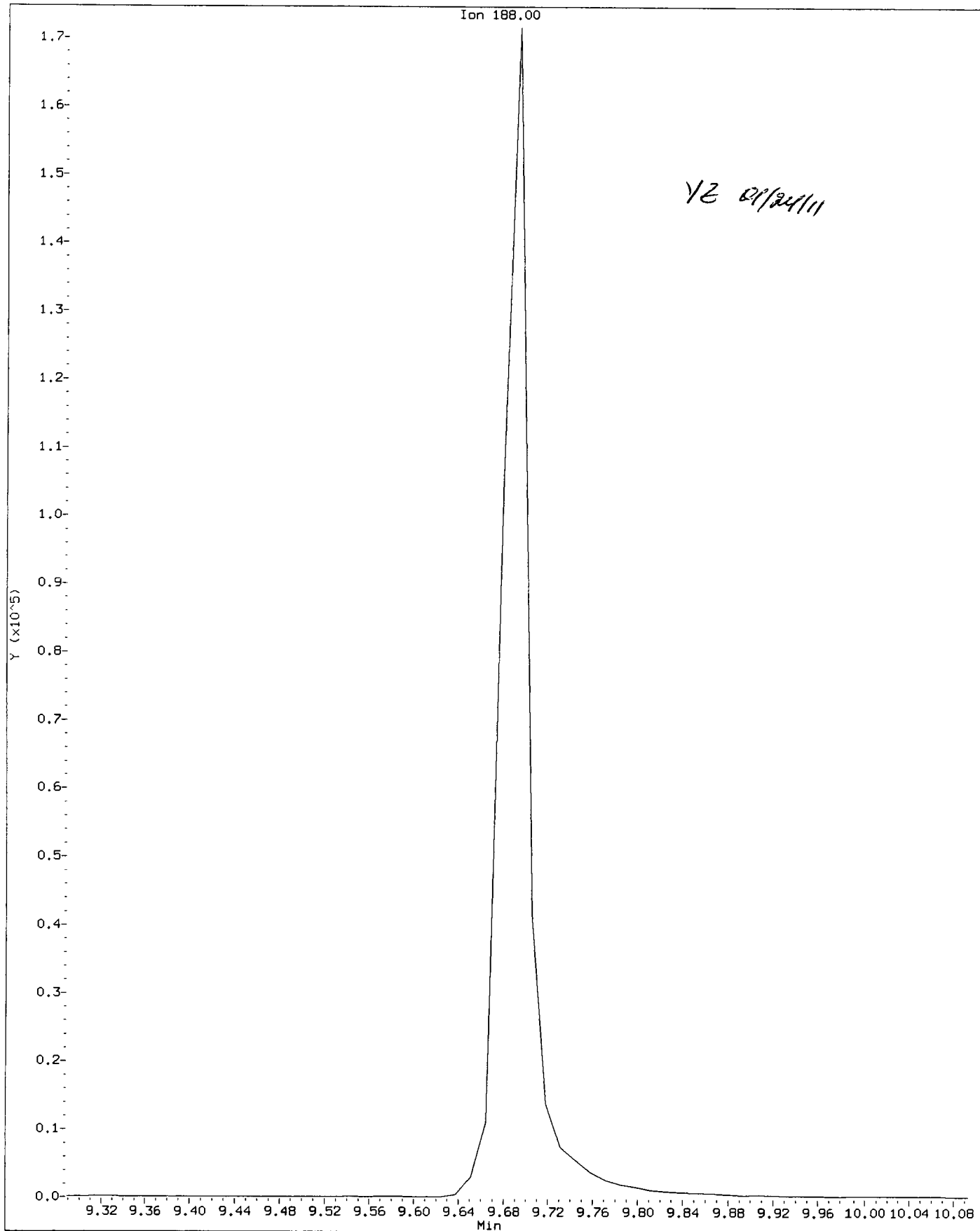
5. Other _____

Analyst: YZ

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

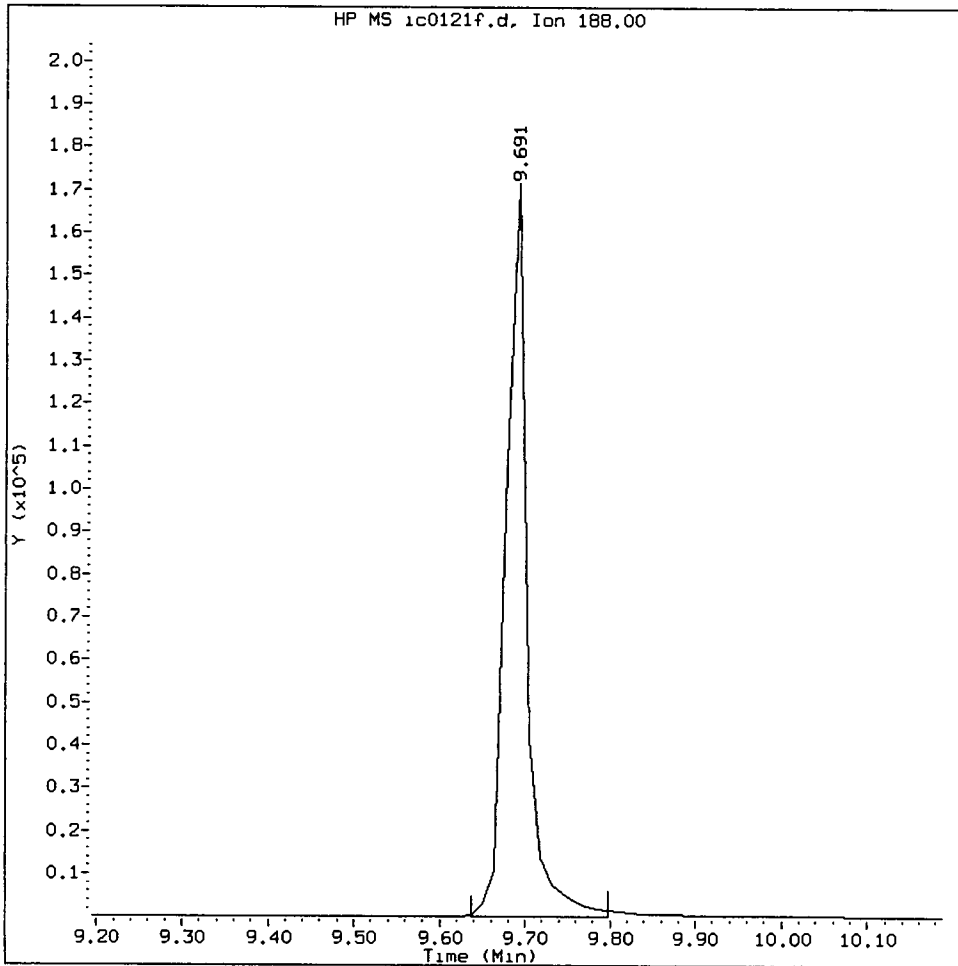
Compound: Phenanthrene-d10
CAS Number:



SF26:00699

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Phenanthrene-d10 Amount: 200.00 Area: 296912



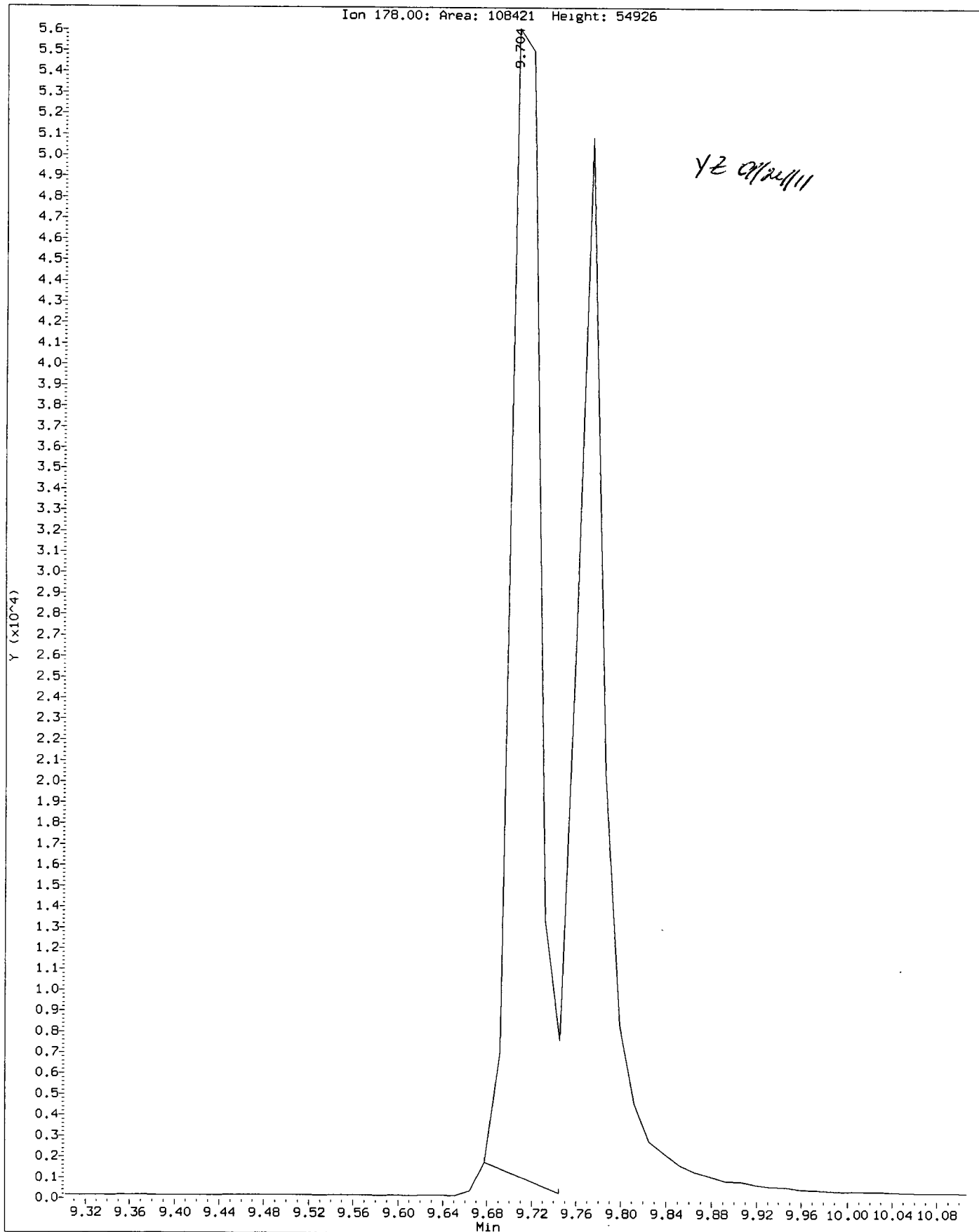
MANUAL INTEGRATION for Phenanthrene-d10

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

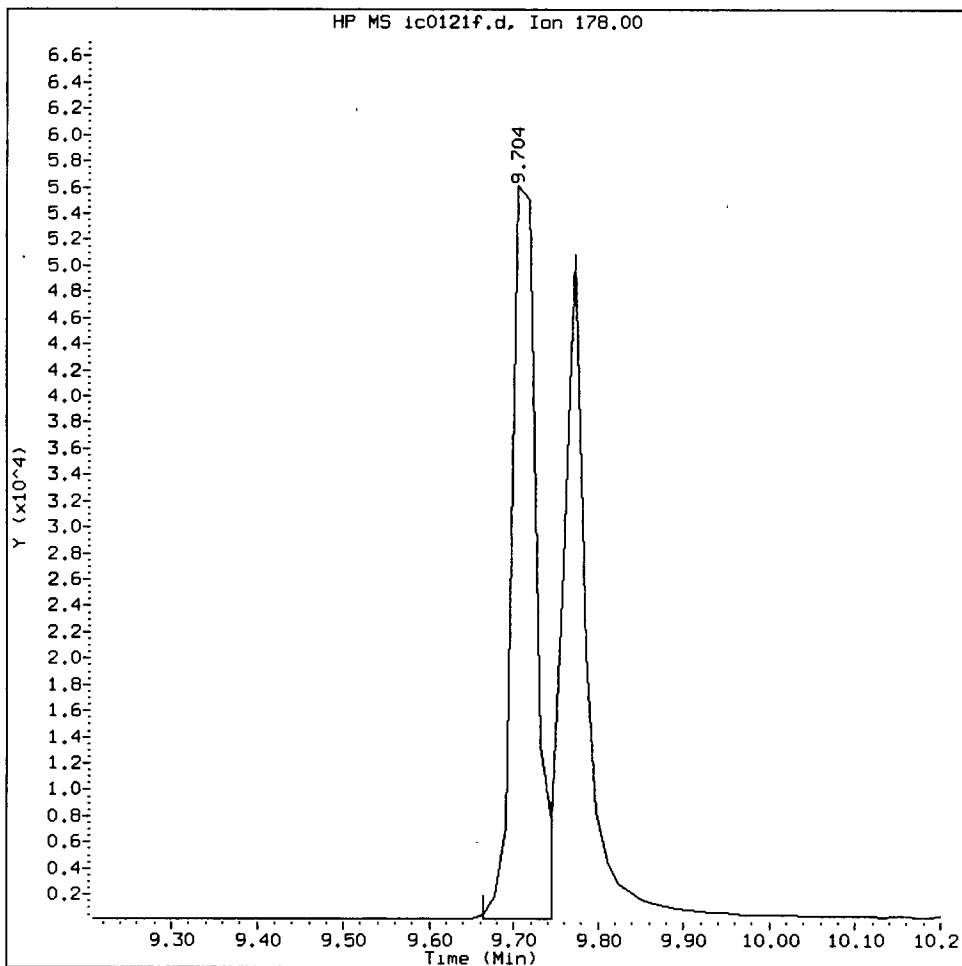
Compound: Phenanthrene
CAS Number:



SF26: 00701

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Phenanthrene Amount: 94.23 Area: 112906



MANUAL INTEGRATION for Phenanthrene

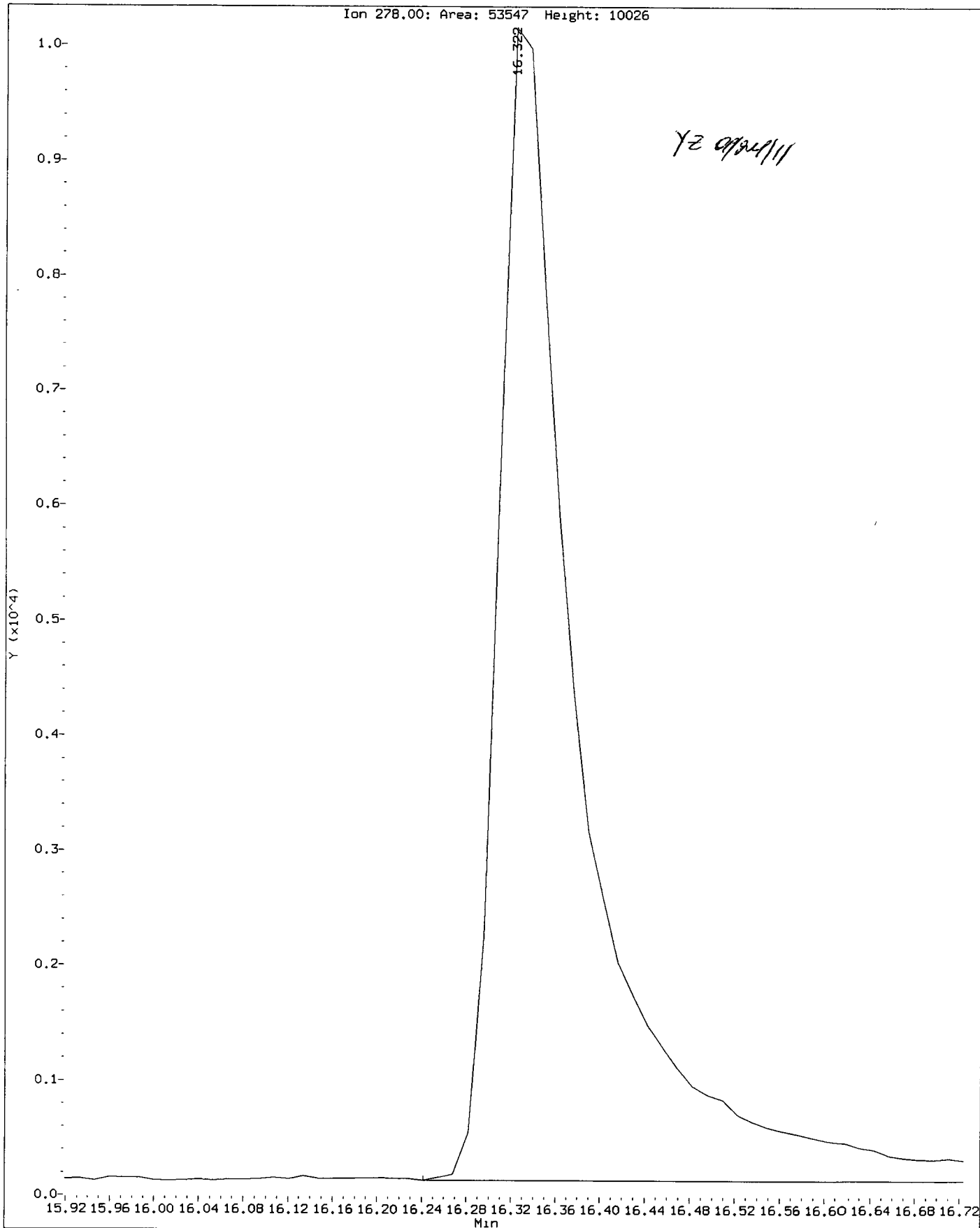
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YE

Date: 02/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

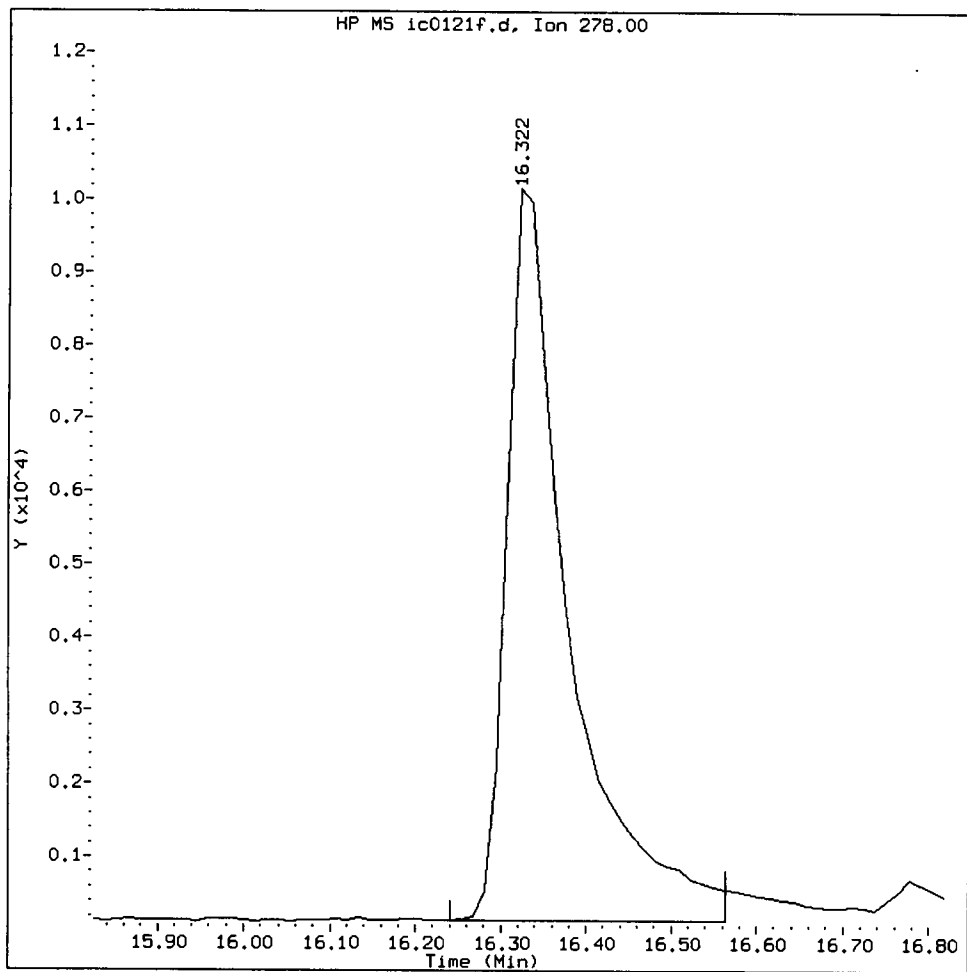
Compound: Dibenzo(a,h)anthracene
CAS Number:



SF26:00703

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Dibenzo(a,h)anthracene Amount: 83.02 Area: 50848



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

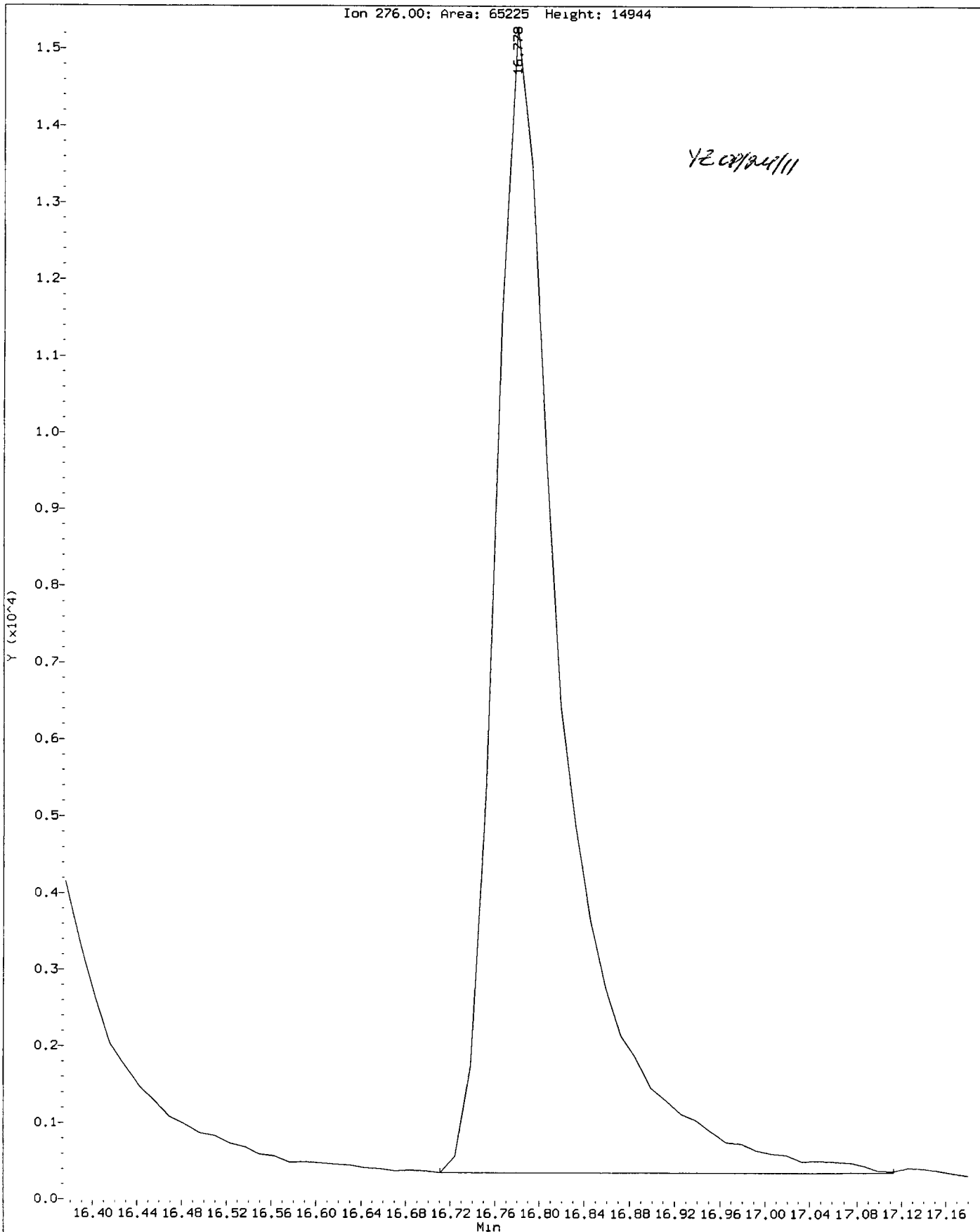
5. Other _____

Analyst: YZ

Date: 12/22/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

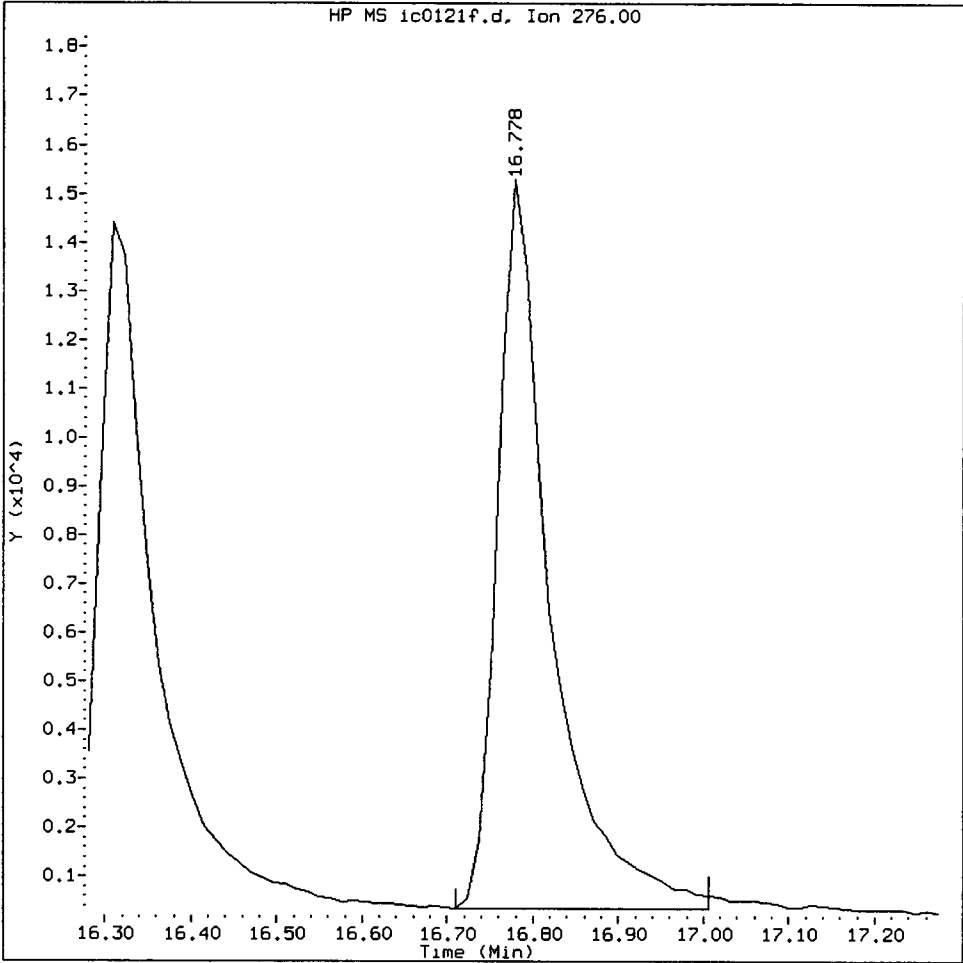
Compound: Benzo(g,h,i)perylene
CAS Number:



SF26:00705

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Benzo(g,h,i)perylene Amount: 83.28 Area: 64434



MANUAL INTEGRATION for Benzo(g,h,i)perylene

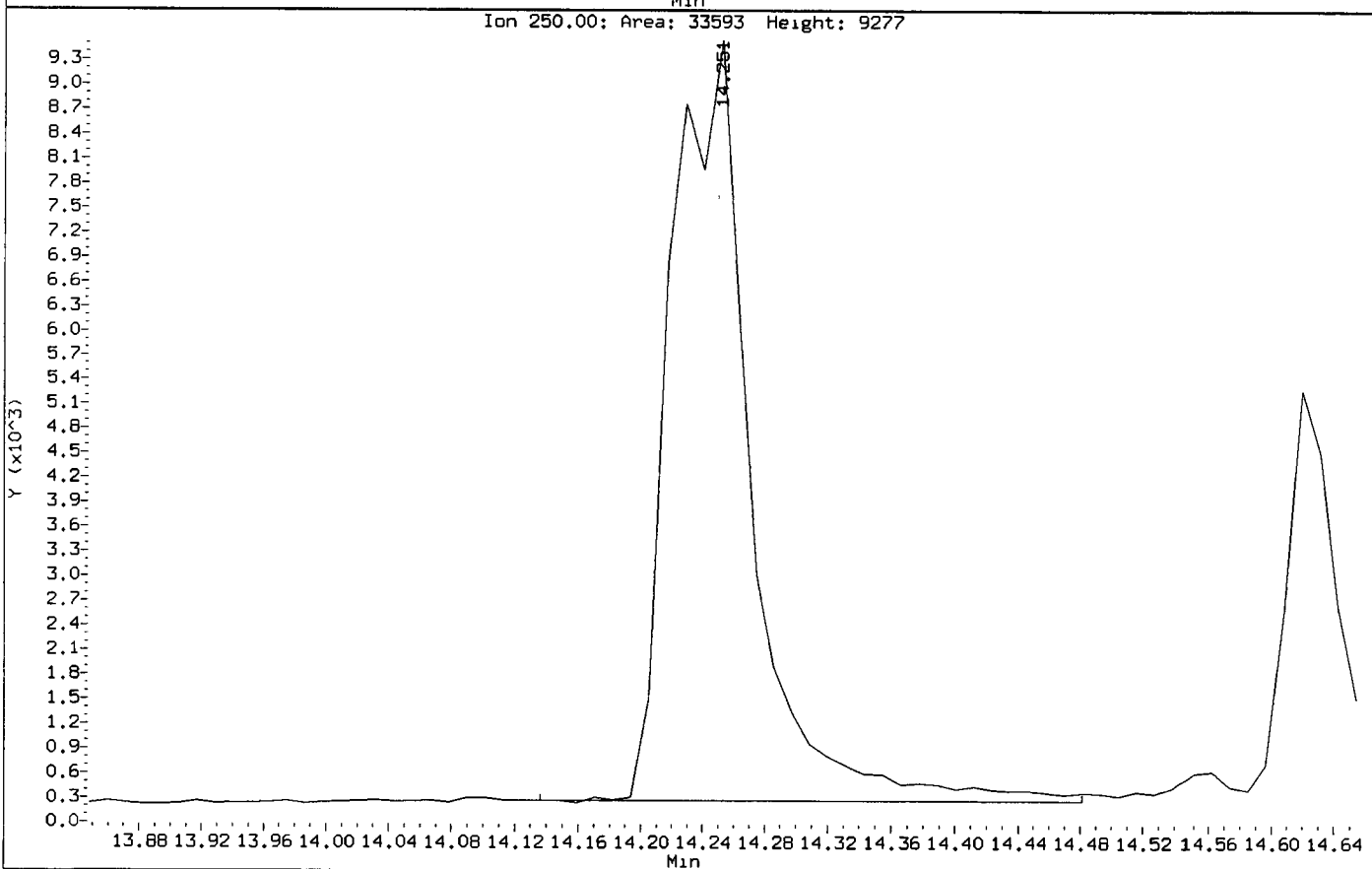
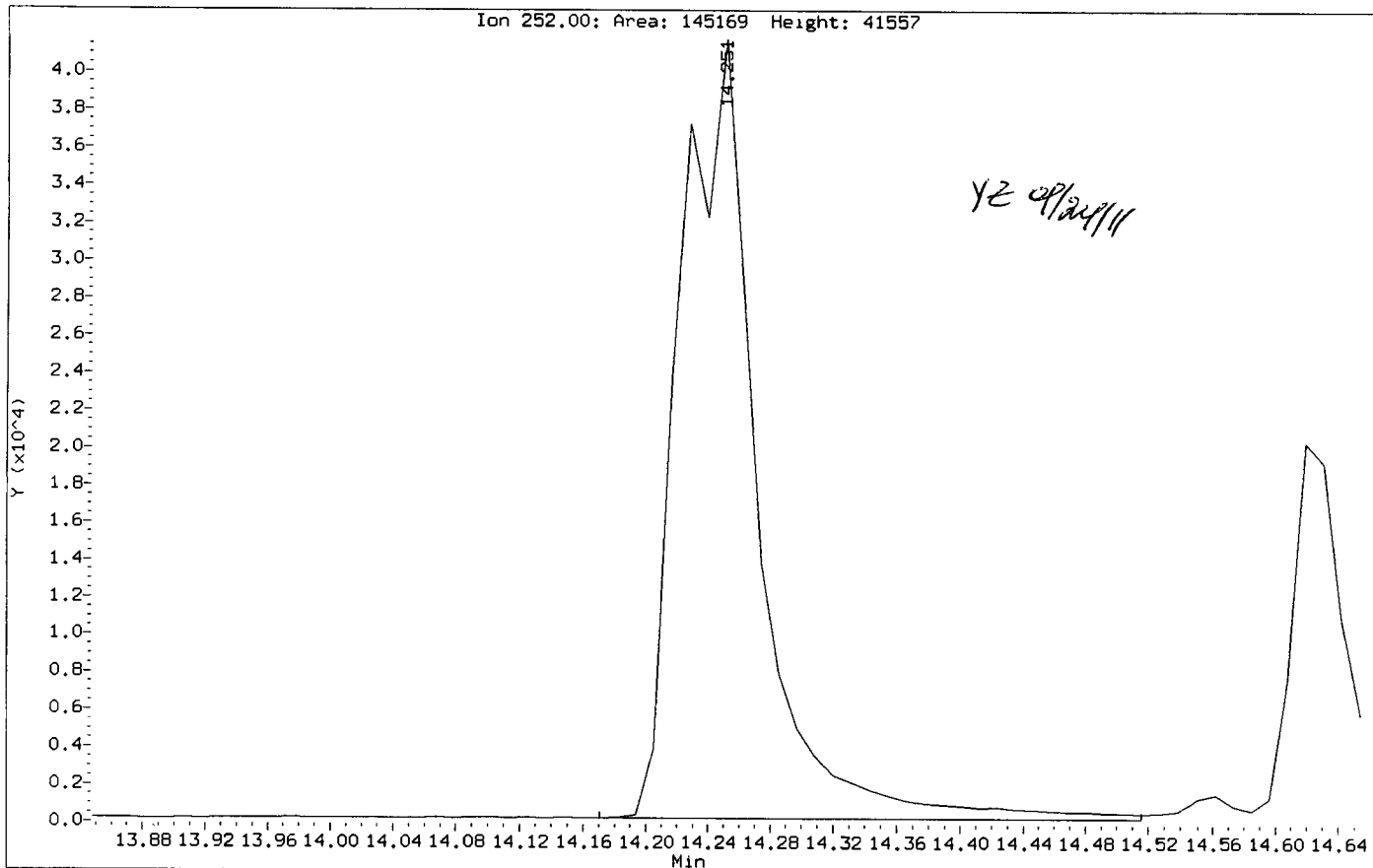
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz

Date: 07/20/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

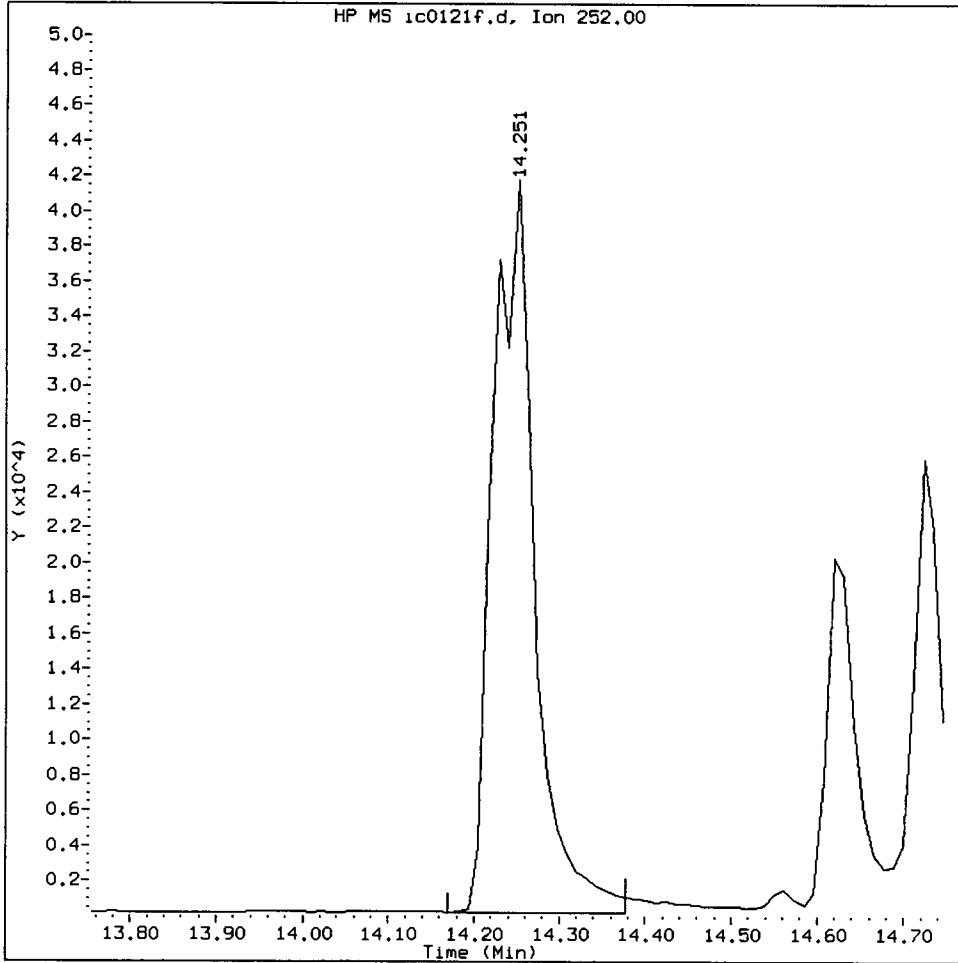
Compound: Total Benzofluoranthenes
CAS Number:



SF26:00707

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Total Benzofluoranthenes Amount: 169.69 Area: 141327



MANUAL INTEGRATION for Total Benzofluoranthenes

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

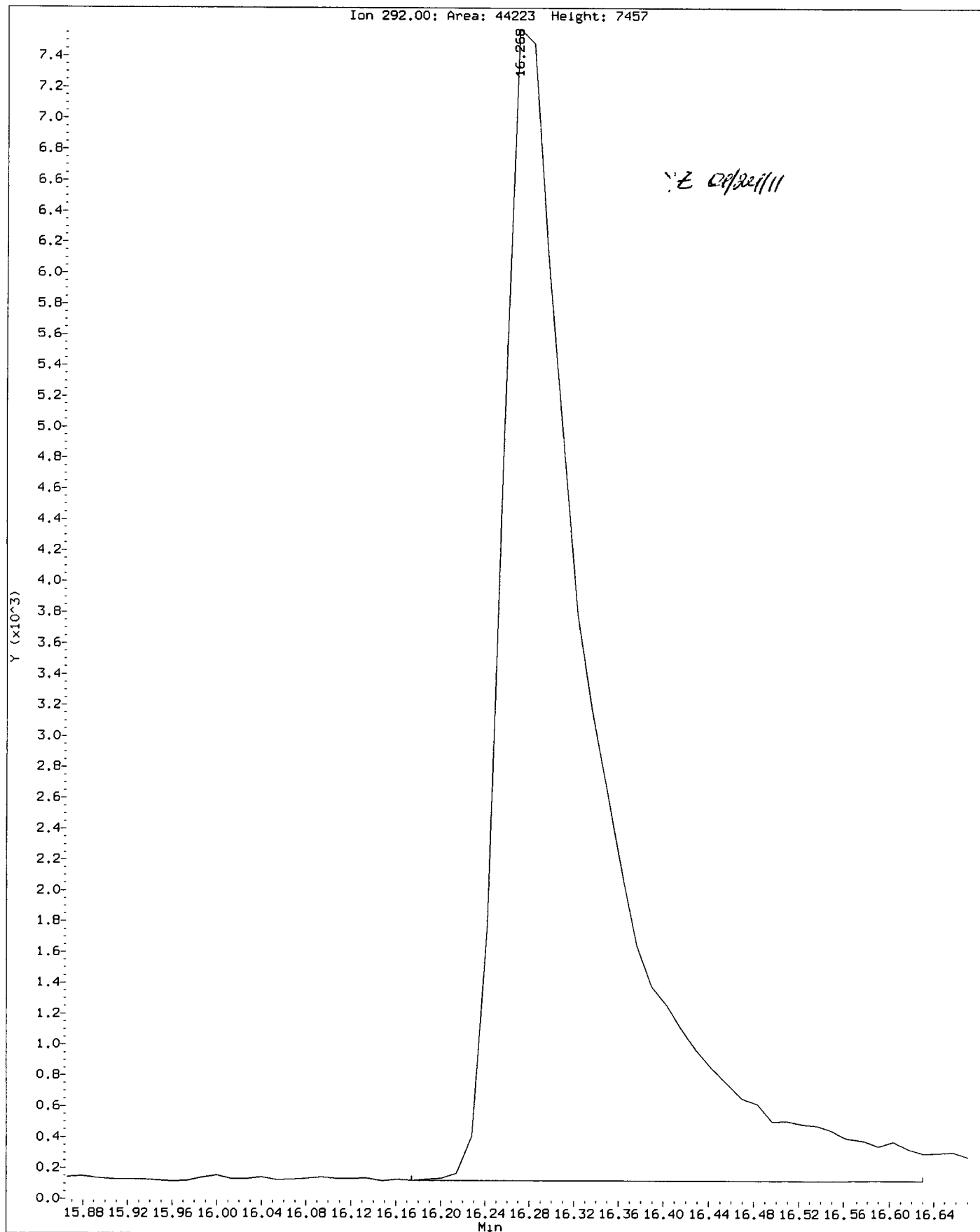
5. Other _____

Analyst: Y2

Date: 01/24/11

Data File: /chem3/nt11.1/20110121.b/ic0121f.d
Injection Date: 21-JAN-2011 17:28
Instrument: nt11.1
Client Sample ID:

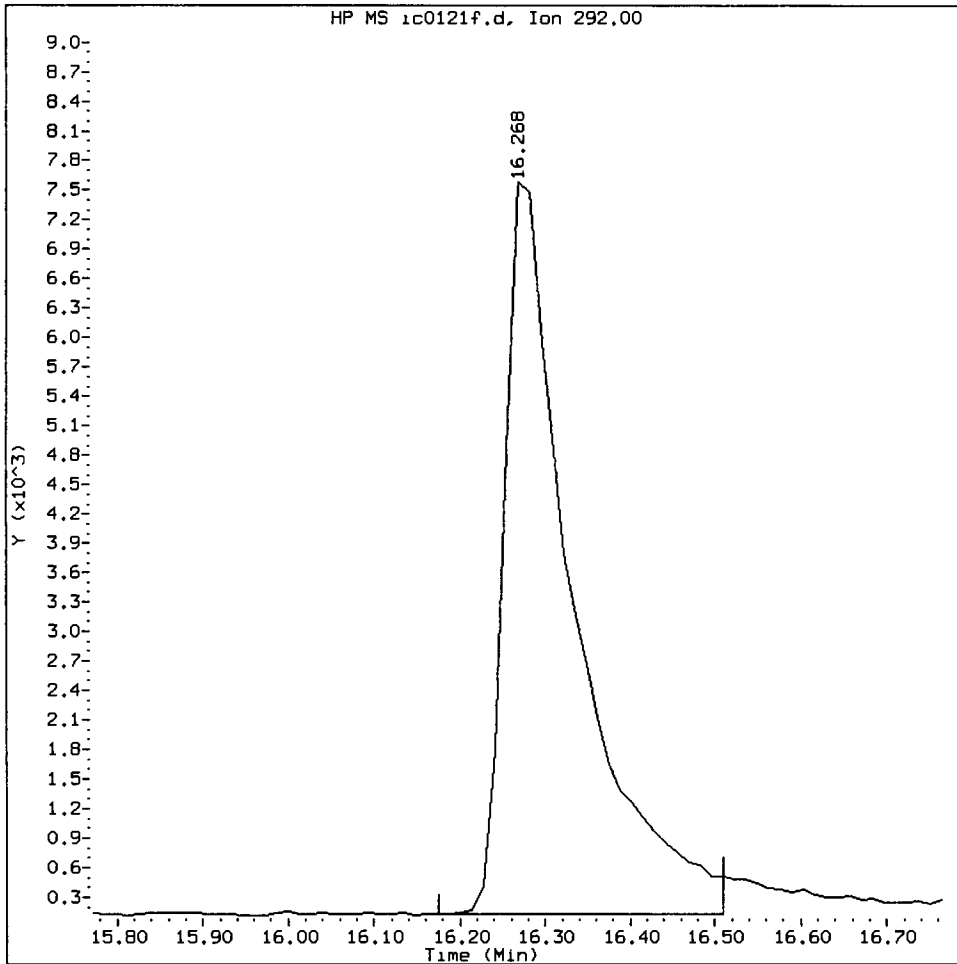
Compound: Dibenzo(a,h)anthracene-d14
CAS Number:



SF26:00709

IC0121F, /chem3/nt11.i/20110121.b/ic0121f.d

Dibenzo(a,h)anthracene-d14 Amount: 82.16 Area: 42261



MANUAL INTEGRATION for Dibenzo(a,h)anthracene-d14

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 01/20/11

CO-ELUTION SUMMARY FOR FILE - ic0121f.d

Lab ID: IC0121F, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00711

Date : 21-JAN-2011 15:16

Client ID:

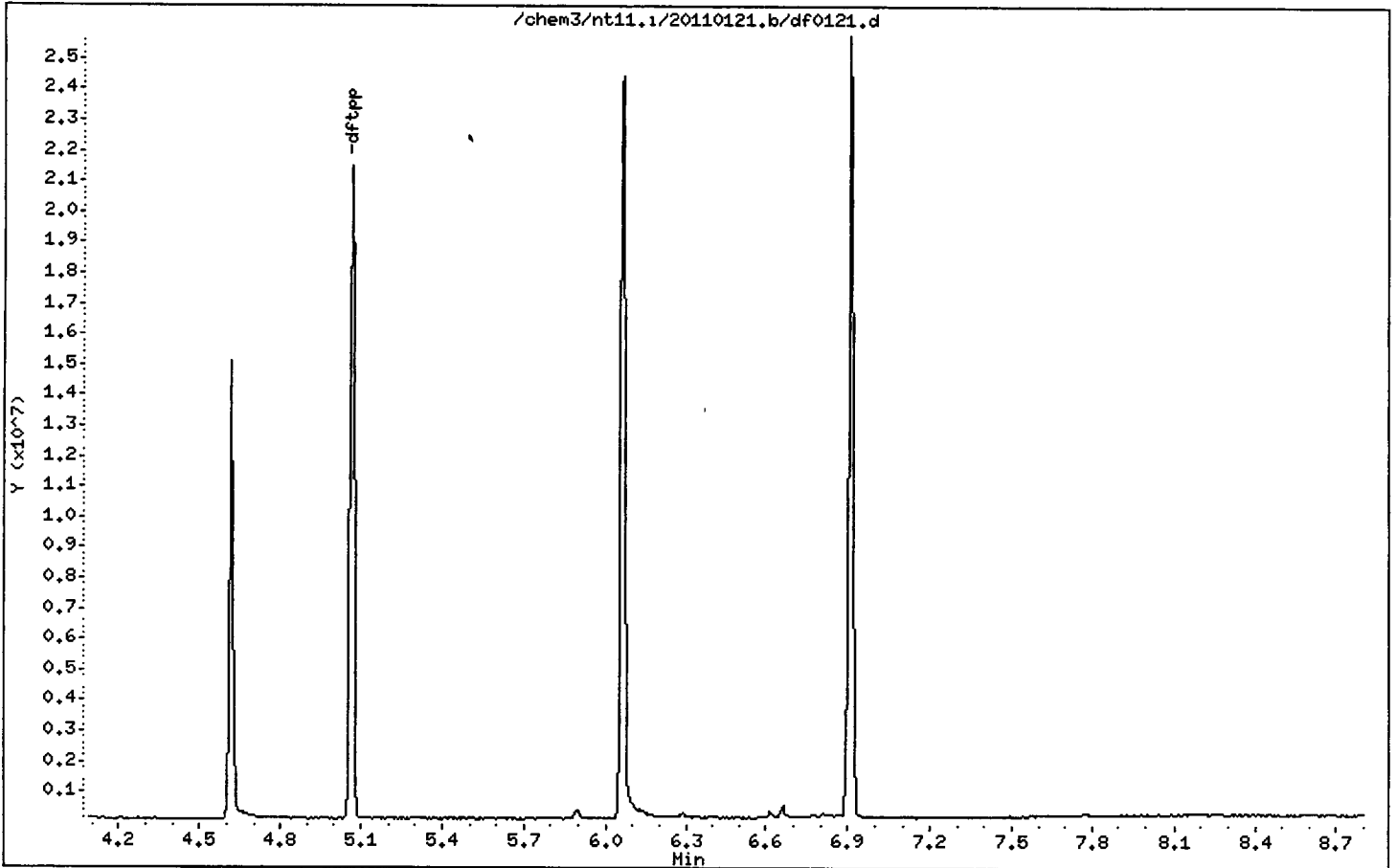
Instrument: nt11.i

Sample Info: DF0121

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25



Date : 21-JAN-2011 15:16

Client ID:

Instrument: nt11.i

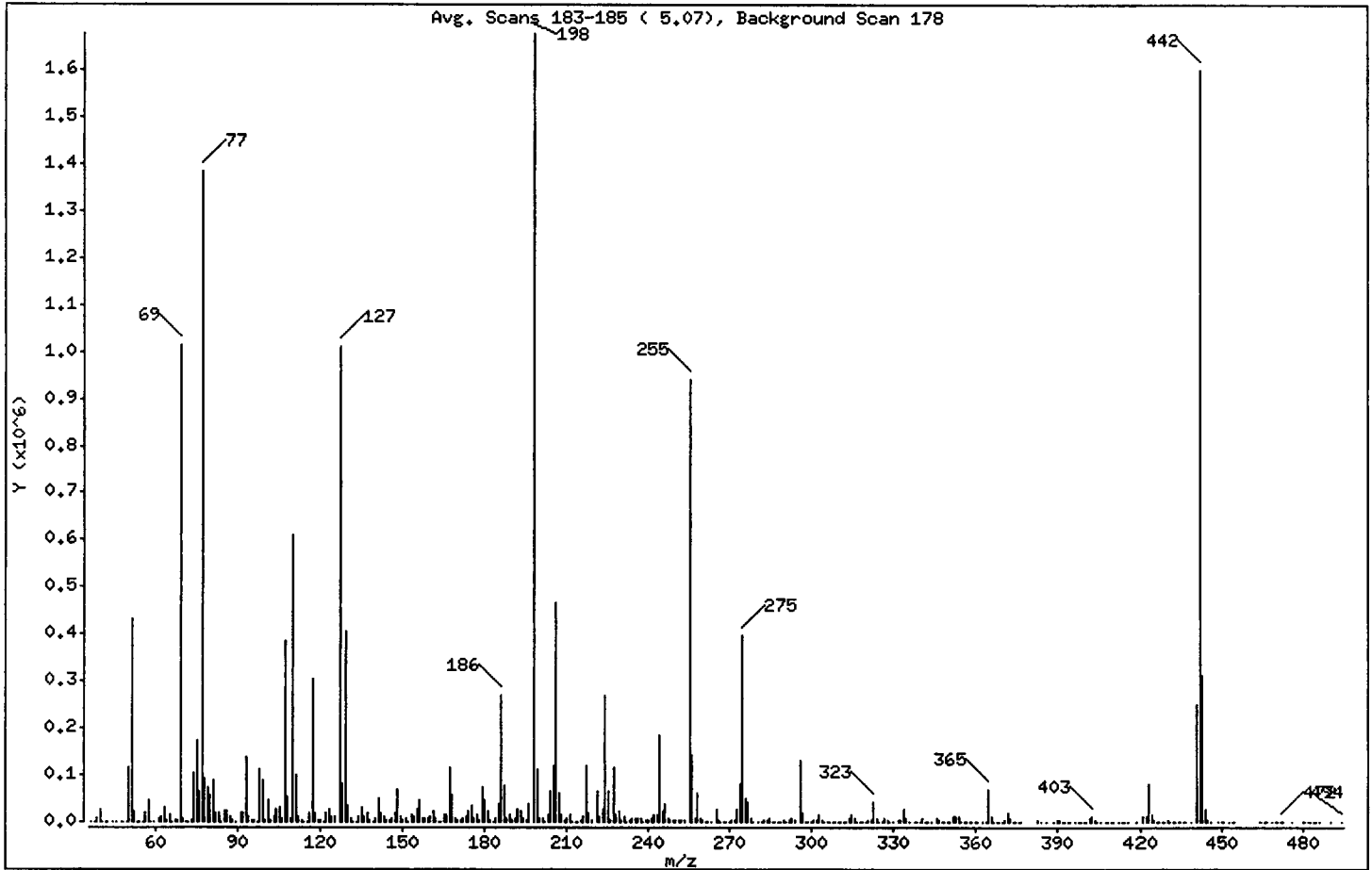
Sample Info: DF0121

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	25.84
68	Less than 2.00% of mass 69	0.28 (0.47)
69	Mass 69 relative abundance	60.39
70	Less than 2.00% of mass 69	0.41 (0.67)
127	10.00 - 80.00% of mass 198	60.13
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 60.00% of mass 198	23.57
365	Greater than 1.00% of mass 198	4.08
441	0.01 - 24.00% of mass 442	14.96 (15.70)
442	50.00 - 200.00% of mass 198	95.30
443	15.00 - 24.00% of mass 442	18.57 (19.48)

Date : 21-JAN-2011 15:16

Client ID:

Instrument: nt11.i

Sample Info: DF0121

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0121.d

Spectrum: Avg. Scans 183-185 (< 5.07), Background Scan 178

Location of Maximum: 198.00

Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	466	143.00	12070	247.00	8672	356.00	536
37.00	1646	144.00	4894	248.00	2249	357.00	106
38.00	5901	145.00	2715	249.00	4329	358.00	544
39.00	25320	146.00	7327	250.00	2381	359.00	900
40.00	667	147.00	20576	251.00	2147	360.00	317
41.00	1689	148.00	67488	252.00	5191	361.00	478
42.00	428	149.00	12595	253.00	5146	363.00	184
44.00	395	150.00	3494	255.00	942208	364.00	618
45.00	384	151.00	5919	256.00	142912	365.00	68368
47.00	985	152.00	1537	257.00	9324	366.00	10258
48.00	108	153.00	14782	258.00	63328	367.00	239
49.00	736	154.00	11308	259.00	7430	368.00	191
50.00	115824	155.00	26824	260.00	2166	369.00	62
51.00	433472	156.00	45240	261.00	1199	370.00	969
52.00	21616	157.00	6503	262.00	405	371.00	4014
53.00	1387	158.00	8446	263.00	932	372.00	19936
54.00	769	159.00	6078	265.00	26456	373.00	6173
55.00	1679	160.00	12811	266.00	3770	374.00	1858
56.00	17520	161.00	22216	267.00	832	375.00	137
57.00	44744	162.00	8209	268.00	592	376.00	58
58.00	1844	163.00	1612	269.00	864	377.00	910
59.00	1099	164.00	1774	270.00	1301	383.00	5344
61.00	7783	165.00	17152	271.00	2542	384.00	1767
62.00	12984	166.00	15990	272.00	3666	386.00	399
63.00	32120	167.00	115536	273.00	28368	389.00	250
64.00	5721	168.00	56664	274.00	81520	390.00	2608
65.00	17088	169.00	7346	275.00	395328	391.00	2290
66.00	1012	170.00	2060	276.00	50656	392.00	1613
67.00	2149	171.00	4763	277.00	42056	393.00	399
68.00	4734	172.00	7926	278.00	7078	394.00	83
69.00	1012864	173.00	11432	279.00	1676	395.00	40
70.00	6795	174.00	22712	281.00	560	397.00	592
71.00	737	175.00	33136	282.00	929	398.00	274
72.00	133	176.00	9068	283.00	5168	399.00	137
73.00	4701	177.00	17312	284.00	4092	400.00	130

Date : 21-JAN-2011 15:16

Client ID:

Instrument: nt11.i

Sample Info: DF0121

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0121.d

Spectrum: Avg. Scans 183-185 (5.07), Background Scan 178

Location of Maximum: 198.00

Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	105872	178.00	4310	285.00	7206	401.00	1286
75.00	173440	179.00	75008	286.00	1355	402.00	7771
76.00	63840	180.00	45888	287.00	237	403.00	11362
77.00	1382912	181.00	22744	288.00	610	404.00	5022
78.00	92352	182.00	5477	289.00	1097	405.00	580
79.00	72400	183.00	1759	290.00	2257	406.00	643
80.00	58408	184.00	6701	291.00	462	408.00	449
81.00	89400	185.00	37664	292.00	2710	409.00	155
82.00	20592	186.00	271680	293.00	8119	410.00	1055
83.00	19272	187.00	75848	294.00	2746	411.00	443
84.00	1476	188.00	6717	296.00	132160	413.00	70
85.00	22176	189.00	13862	297.00	18648	414.00	257
86.00	24960	190.00	3688	298.00	981	415.00	1620
87.00	11783	191.00	7977	299.00	558	416.00	382
88.00	3635	192.00	25416	300.00	509	419.00	1045
89.00	349	193.00	22152	301.00	2259	421.00	12773
91.00	20528	194.00	5973	302.00	2858	422.00	12293
92.00	19552	195.00	4639	303.00	14079	423.00	80480
93.00	140032	196.00	40280	304.00	5324	424.00	15737
94.00	11075	198.00	1677312	305.00	787	425.00	2641
95.00	2648	199.00	110272	306.00	445	426.00	1462
96.00	5055	200.00	8174	307.00	340	427.00	1065
97.00	838	201.00	8730	308.00	1792	428.00	1010
98.00	112568	202.00	1067	309.00	894	429.00	1127
99.00	87880	203.00	13851	310.00	1202	430.00	2141
100.00	5613	204.00	63832	311.00	708	431.00	1160
101.00	47320	205.00	120912	312.00	1495	432.00	757
102.00	3016	206.00	464704	313.00	1158	433.00	1587
103.00	12970	207.00	60704	314.00	5959	434.00	1909
104.00	25496	208.00	15060	315.00	14713	435.00	724
105.00	31224	209.00	5623	316.00	6299	436.00	676
106.00	6724	210.00	6191	317.00	1634	437.00	160
107.00	383808	211.00	16728	318.00	761	439.00	509
108.00	52856	212.00	1844	319.00	669	441.00	250944
109.00	7369	213.00	409	320.00	696	442.00	1598464

Date : 21-JAN-2011 15:16

Client ID:

Instrument: nt11.i

Sample Info: DF0121

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0121.d

Spectrum: Avg. Scans 183-185 (5.07), Background Scan 178

Location of Maximum: 198.00

Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	609536	214.00	875	321.00	4146	443.00	311424
111.00	98848	215.00	4657	322.00	2017	444.00	27496
112.00	11796	216.00	10299	323.00	42888	445.00	2618
113.00	4536	217.00	120776	324.00	6291	446.00	92
114.00	700	218.00	18560	325.00	1070	449.00	72
115.00	747	219.00	3027	326.00	713	450.00	373
116.00	19520	221.00	64960	327.00	9205	451.00	72
117.00	306048	222.00	9969	328.00	5036	453.00	225
118.00	19232	223.00	26440	329.00	859	454.00	117
119.00	3246	224.00	268352	330.00	607	455.00	402
120.00	3855	225.00	67224	332.00	3453	464.00	126
121.00	1595	226.00	3707	333.00	4092	465.00	81
122.00	18280	227.00	115296	334.00	26696	466.00	56
123.00	28216	228.00	16688	335.00	7164	467.00	233
124.00	11823	229.00	24632	336.00	1106	469.00	295
125.00	13472	230.00	3667	338.00	62	470.00	73
127.00	1008576	231.00	10203	339.00	1229	471.00	86
128.00	80592	232.00	1774	340.00	990	472.00	314
129.00	406528	233.00	2777	341.00	6028	473.00	223
130.00	33944	234.00	6943	342.00	1193	476.00	7
131.00	6870	235.00	8556	343.00	850	480.00	183
132.00	1796	236.00	8779	344.00	667	481.00	127
133.00	1482	237.00	6772	346.00	7008	482.00	64
134.00	10034	238.00	1011	347.00	2308	483.00	24
135.00	31888	239.00	3450	348.00	284	484.00	289
136.00	12620	240.00	3437	349.00	238	485.00	151
137.00	17368	241.00	7058	350.00	454	486.00	55
138.00	3862	242.00	16216	351.00	571	490.00	144
139.00	1861	243.00	15964	352.00	12383	494.00	52
140.00	9107	244.00	184704	353.00	9890		
141.00	49248	245.00	23280	354.00	12889		
142.00	18256	246.00	37456	355.00	1861		

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt11.i/20110121.b/ddt.b/df0121.d ARI ID: DF0121
Method: /chem3/nt11.i/20110121.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 21-JAN-2011 15:16 Instrument: nt11.i

COMPOUND	RT	AREA
Pentachlorophenol	4.616	1219825
Benzidine	6.064	8931190
4,4'-DDE	6.283	16618
4,4'-DDD	6.662	57146
4,4'-DDT	6.908	4310615

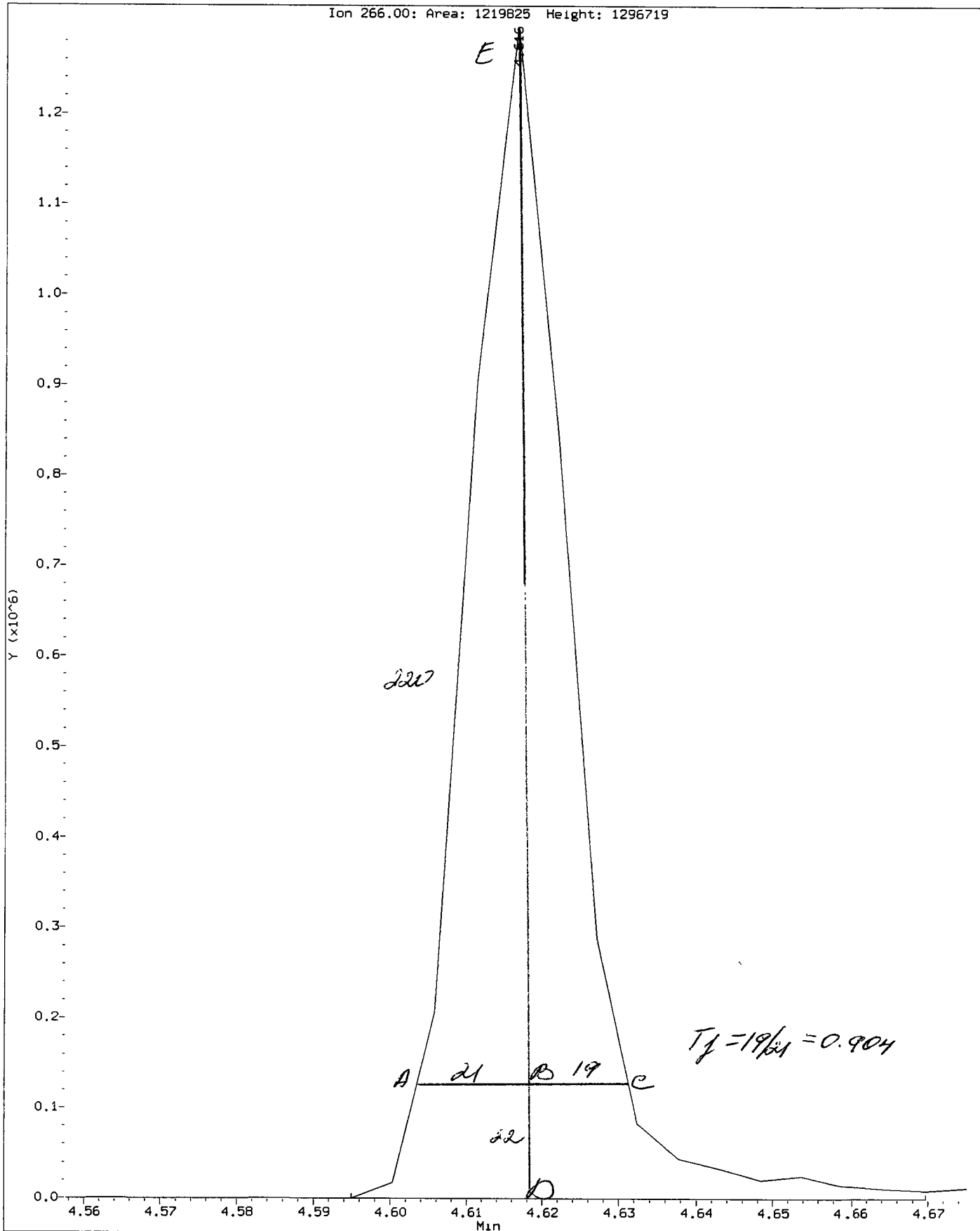
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(16618 + 57146) * 100}{(16618 + 57146 + 4310615)}$$

DDT Percent Breakdown = 1.7 %

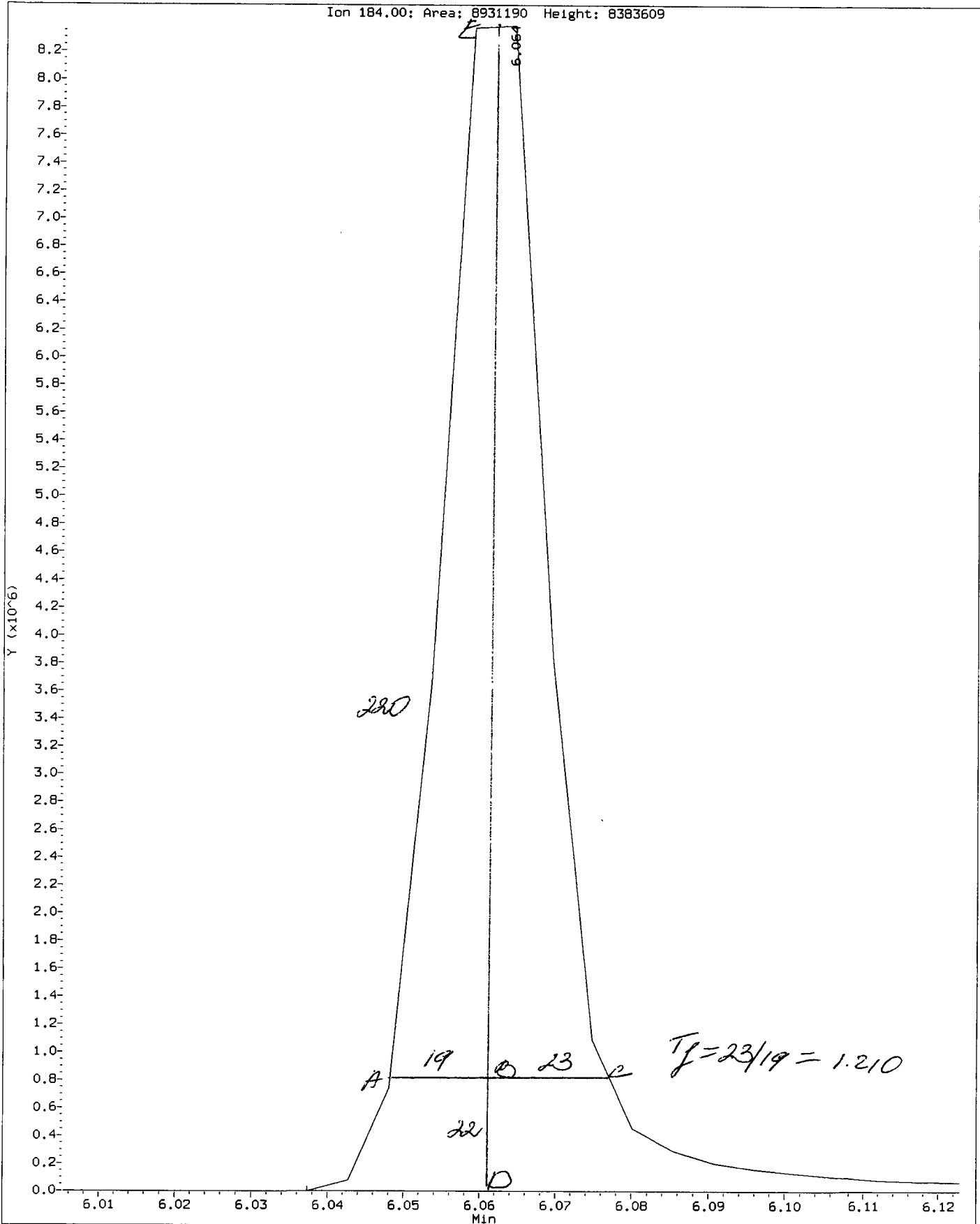
Data File: /chem3/nt11.1/20110121.b/ddt.b/df0121.d
Injection Date: 21-JAN-2011 15:16
Instrument: nt11.1
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt11.1/20110121.b/ddt.b/df0121.d
Injection Date: 21-JAN-2011 15:16
Instrument: nt11.1
Client Sample ID:

Compound: Benzidine
CAS Number:



SF26:00719

Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

YZ 01/25/11

Data file : /chem3/nt11.i/20110121.b/icv0121.d
 Lab Smp Id: ICV0121
 Inj Date : 21-JAN-2011 17:52
 Operator : yz Inst ID: nt11.i
 Smp Info : ICV0121
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110121.b/lowsim.m
 Meth Date : 25-Jan-2011 12:14 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ng/L)
* 4 Naphthalene-d8	136	====	5.709	5.709	(1.000)	326179	200.000	
5 Naphthalene	128		5.732	5.732	(1.004)	374908	283.974	284
\$ 6 2-Methylnaphthalene-d10	152		6.526	6.537	(1.143)	222400	284.307	284 (M)
7 2-Methylnaphthalene	142		6.560	6.572	(1.149)	221181	292.317	292
8 1-Methylnaphthalene	142		6.698	6.698	(1.173)	216629	283.266	283
10 Acenaphthylene	152		7.680	7.680	(0.976)	300826	269.618	270
* 11 Acenaphthene-d10	164		7.867	7.867	(1.000)	172138	200.000	
12 Acenaphthene	153		7.894	7.908	(1.003)	199874	262.046	262
14 Dibenzofuran	168		8.109	8.109	(1.031)	354991	314.132	314
15 Fluorene	166		8.524	8.524	(1.083)	213132	280.806	281
* 18 Phenanthrene-d10	188		9.691	9.691	(1.000)	295834	200.000	
19 Phenanthrene	178		9.704	9.718	(1.001)	316417	265.049	265
20 Anthracene	178		9.771	9.771	(1.008)	301907	262.203	262
24 Fluoranthene	202		11.192	11.192	(1.155)	303070	269.078	269
25 Pyrene	202		11.474	11.474	(0.884)	318390	289.311	289
28 Benzo(a)anthracene	228		12.963	12.963	(0.999)	207124	289.110	289

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ng/L)
* 29 Chrysene-d12	240	12.976	12.976	(1.000)	177727	200.000	
30 Chrysene	228	13.003	13.003	(1.002)	284465	272.411	272
43 Total Benzofluoranthenes	252	14.251	14.251	(0.969)	426238	626.354	626 (M)
34 Benzo(a)pyrene	252	14.619	14.619	(0.995)	166772	288.204	288
* 35 Perylene-d12	264	14.700	14.700	(1.000)	119063	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.308	16.308	(1.109)	205972	304.788	305 (M)
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.268	16.268	(1.107)	126974	302.102	302 (M)
38 Dibenzo(a,h)anthracene	278	16.322	16.322	(1.110)	152747	305.226	305 (M)
39 Benzo(g,h,i)perylene	276	16.778	16.778	(1.141)	193116	305.468	305 (M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: icv0121.d
 Lab Smp Id: ICV0121
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

Calibration Date: 21-JAN-2011
 Calibration Time: 15:30
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	326179	-4.78
11 Acenaphthene-d10	185015	92508	370030	172138	-6.96
18 Phenanthrene-d10	320966	160483	641932	295834	-7.83
29 Chrysene-d12	212759	106380	425518	177727	-16.47
35 Perylene-d12	156605	78302	313210	119063	-23.97

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.71	5.21	6.21	5.71	0.00
11 Acenaphthene-d10	7.87	7.37	8.37	7.87	0.00
18 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
29 Chrysene-d12	12.98	12.48	13.48	12.98	0.00
35 Perylene-d12	14.70	14.20	15.20	14.70	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.

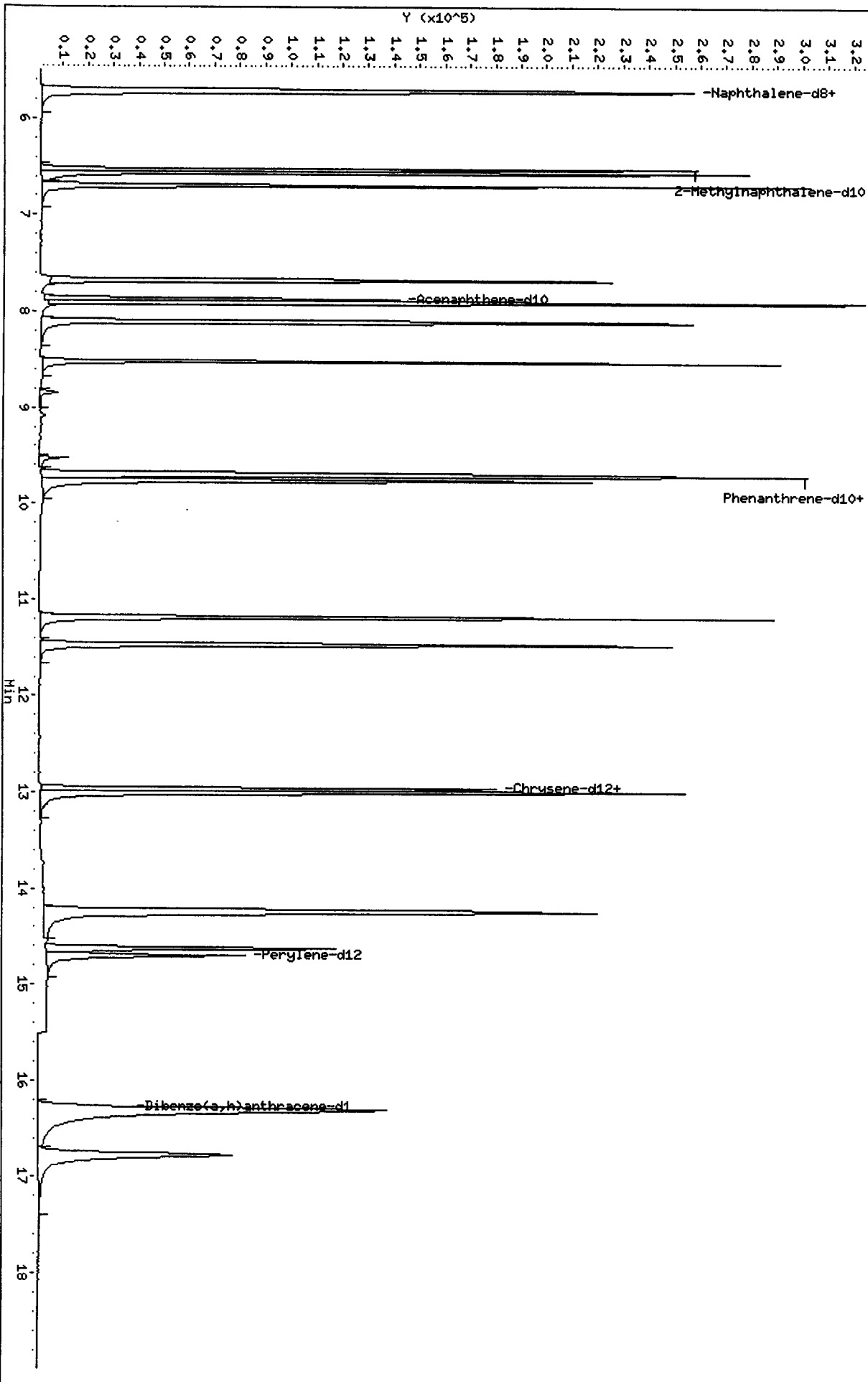
RECOVERY REPORT

Client Name: Client SDG:
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: ICV0121
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: LCS
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pnalmm.sub
 Method File: /chem3/nt11.i/20110121.b/lowsim.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ng/L	CONC RECOVERED ng/L	% RECOVERED	LIMITS
5 Naphthalene	250	284	113.59	70-130
8 1-Methylnaphthalen	250	283	113.31	70-130
10 Acenaphthylene	250	270	107.85	70-130
12 Acenaphthene	250	262	104.82	70-130
15 Fluorene	250	281	112.32	70-130
19 Phenanthrene	250	265	106.02	70-130
20 Anthracene	250	262	104.88	70-130
24 Fluoranthene	250	269	107.63	70-130
25 Pyrene	250	289	115.72	70-130
28 Benzo(a) anthracene	250	289	115.64	70-130
30 Chrysene	250	272	108.96	70-130
43 Total Benzofluoran	500	626	125.27	70-130
34 Benzo(a) pyrene	250	288	115.28	70-130
37 Indeno(1,2,3-cd)py	250	305	121.92	70-130
38 Dibenzo(a,h) anthra	250	305	122.09	70-130
39 Benzo(g,h,i) peryle	250	305	122.19	70-130

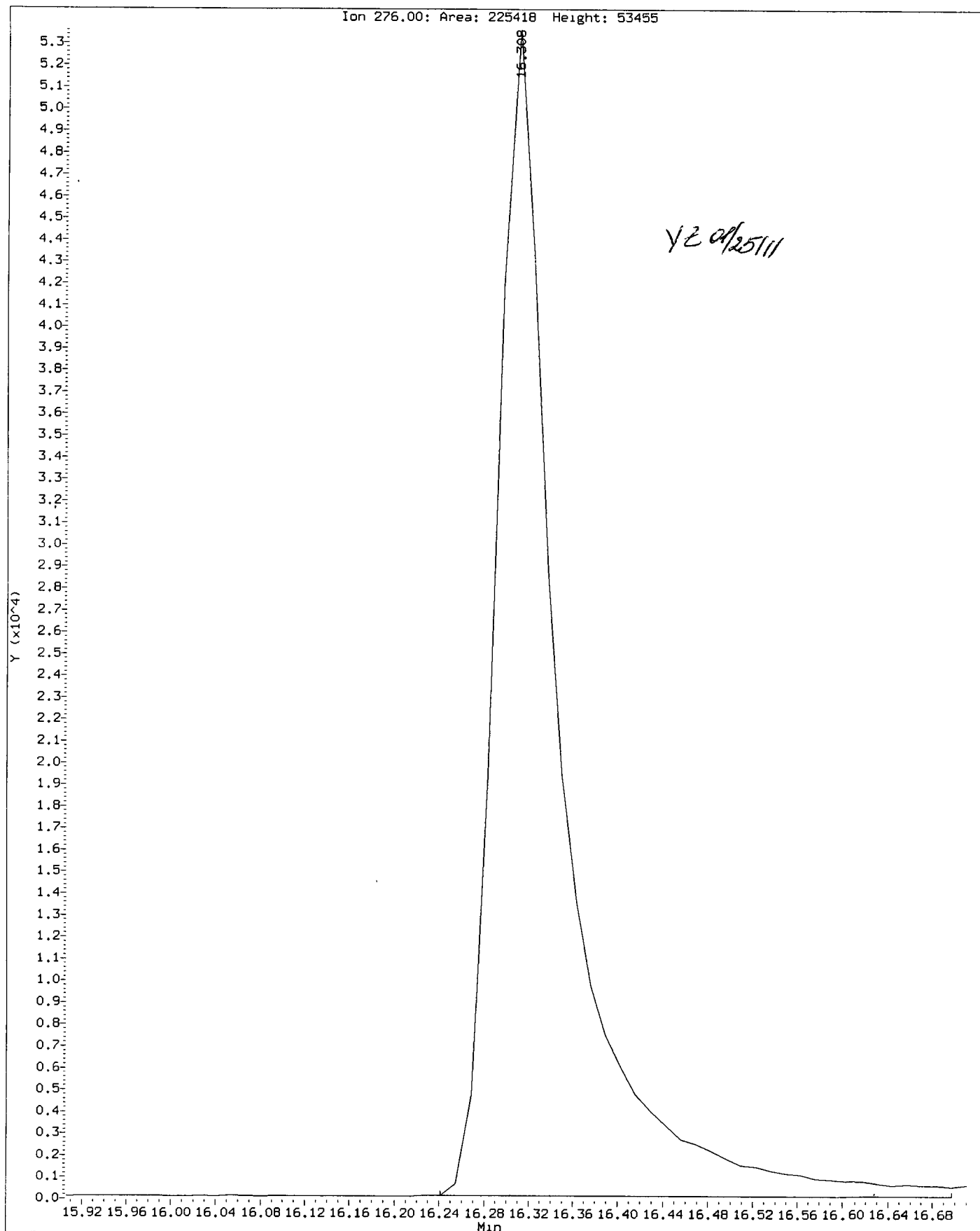
SURROGATE COMPOUND	CONC ADDED ng/L	CONC RECOVERED ng/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	284	94.77	31-109
\$ 36 Dibenzo(a,h) anthra	300	302	100.70	10-133

/chem3/nt11.i/20110121.b/icv0121.d



Data File: /chem3/nt11.1/20110121.b/1cv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

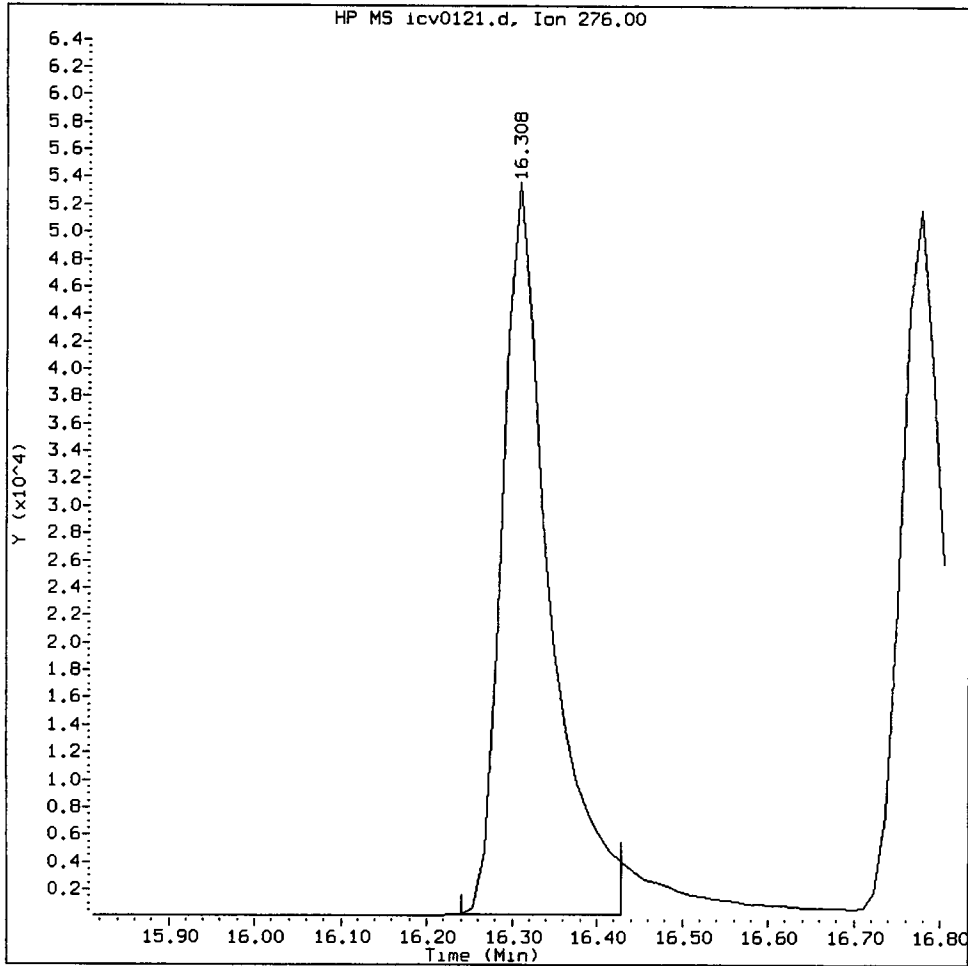
Compound: Indeno(1,2,3-cd)pyrene
CAS Number:



SF26:00725

ICV0121, /chem3/nt11.i/20110121.b/icv0121.d

Indeno(1,2,3-cd)pyrene Amount: 304.79 Area: 205972



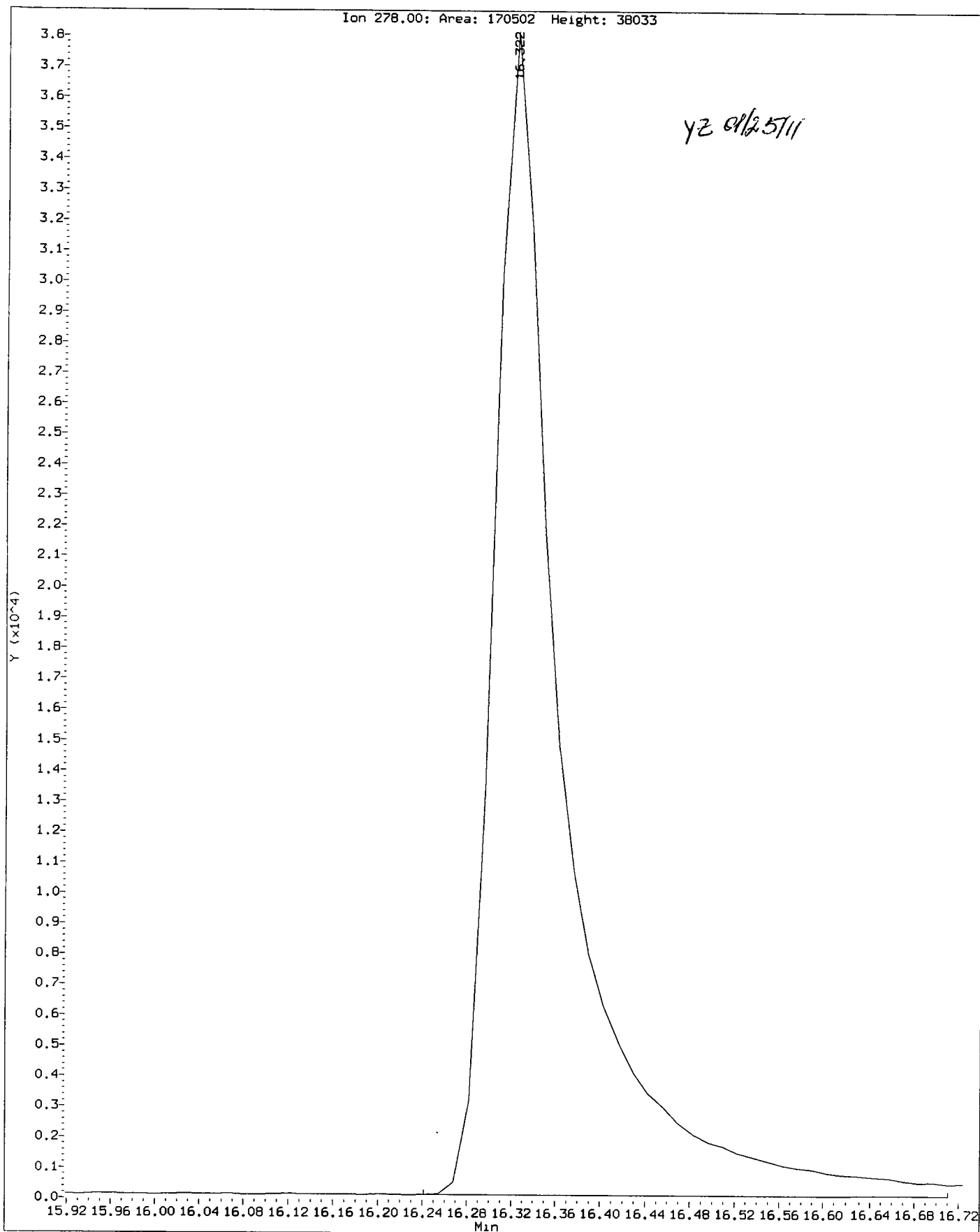
MANUAL INTEGRATION for Indeno(1,2,3-cd)pyrene

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: YE Date: 01/25/11

Data File: /chem3/nt11.i/20110121.b/1cv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

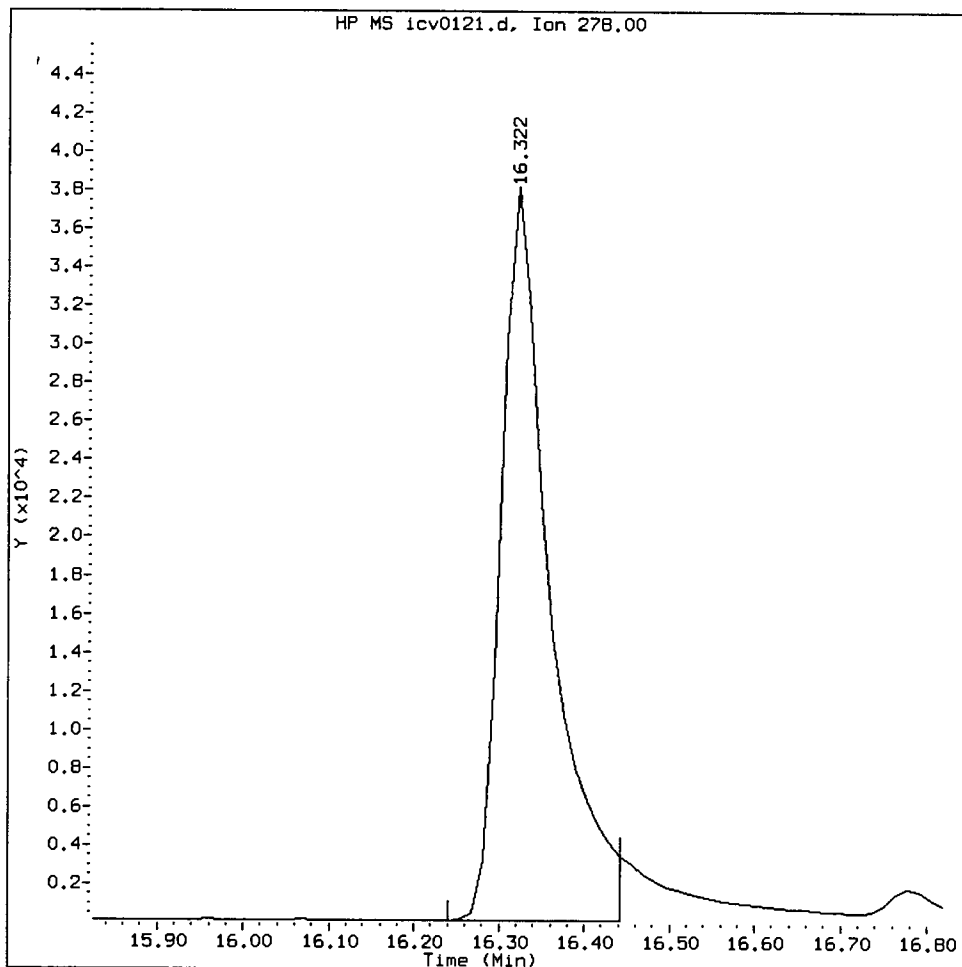
Compound: Dibenzo(a,h)anthracene
CAS Number:



SF 26 : 00727

ICV0121, /chem3/nt11.i/20110121.b/icv0121.d

Dibenzo(a,h)anthracene Amount: 305.23 Area: 152747



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

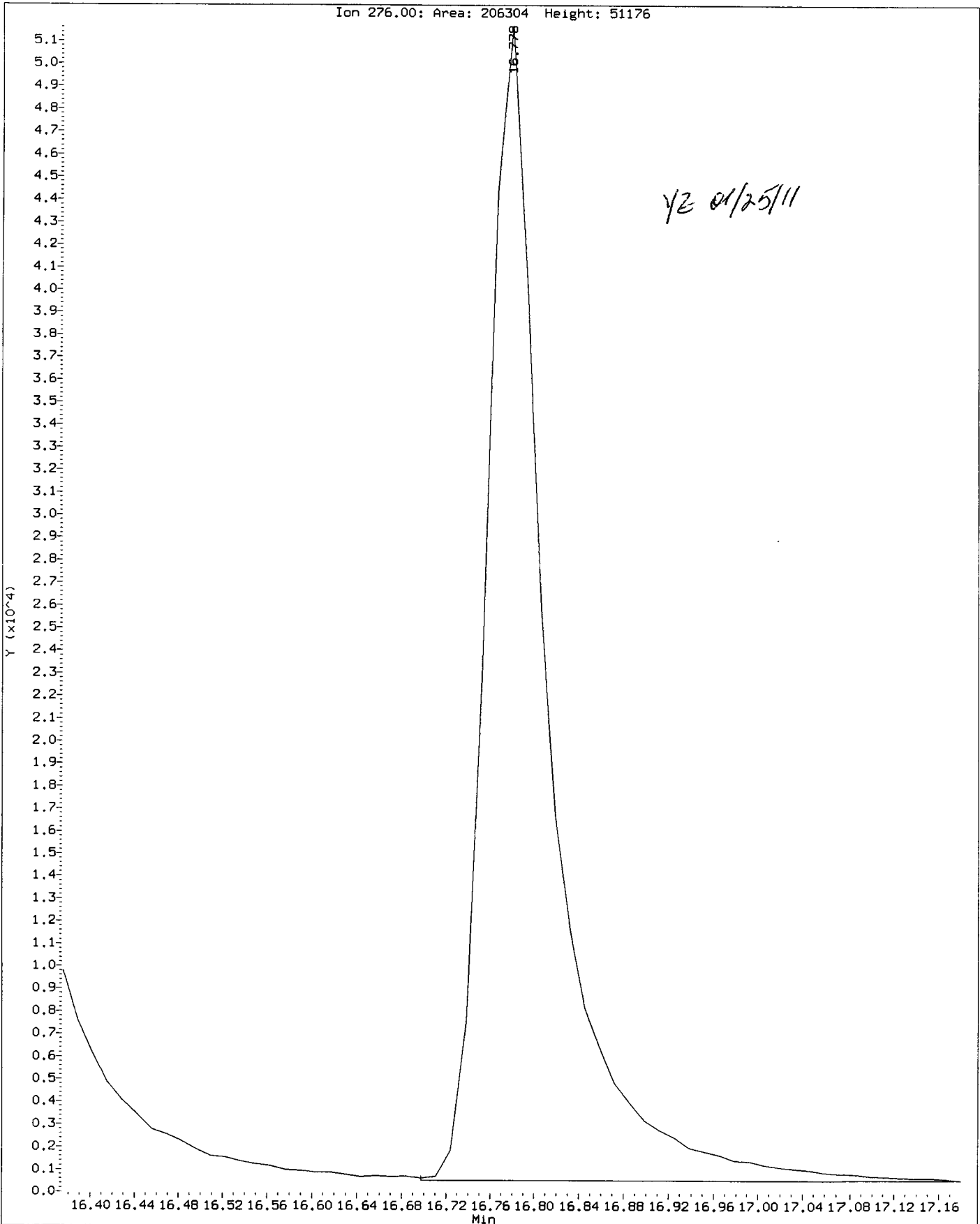
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: Y2

Date: 01/25/11

Data File: /chem3/nt11.1/20110121.b/icv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

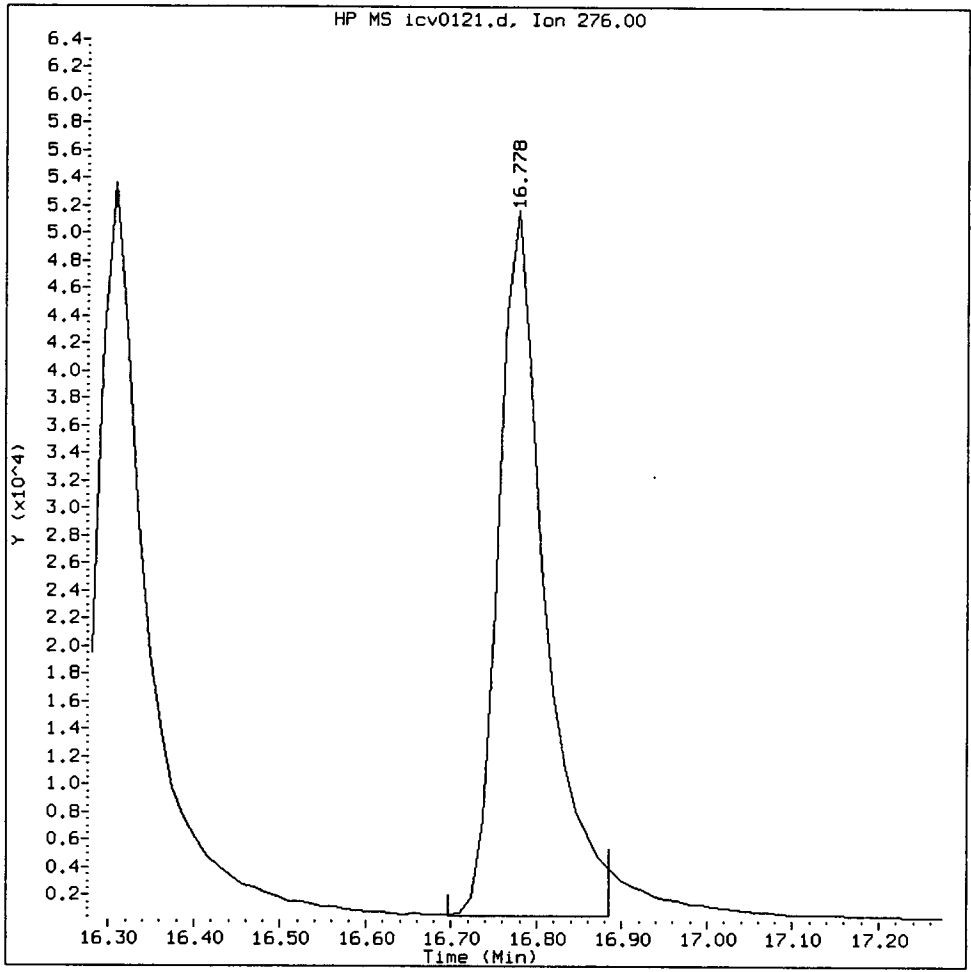
Compound: Benzo(g,h,i)perylene
CAS Number:



SF26:00723

ICV0121, /chem3/nt11.i/20110121.b/icv0121.d

Benzo(g,h,i)perylene Amount: 305.47 Area: 193116



MANUAL INTEGRATION for Benzo(g,h,i)perylene

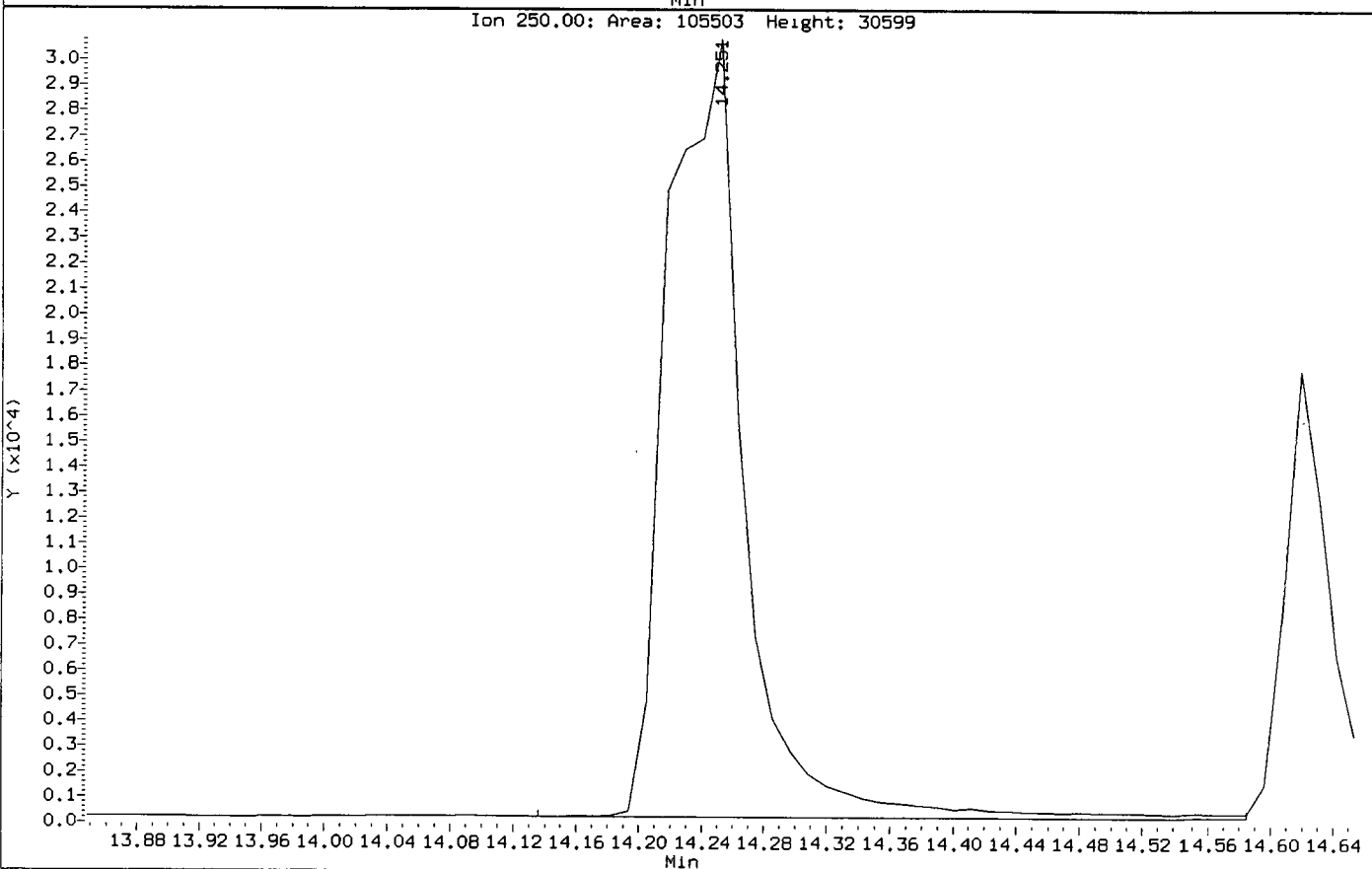
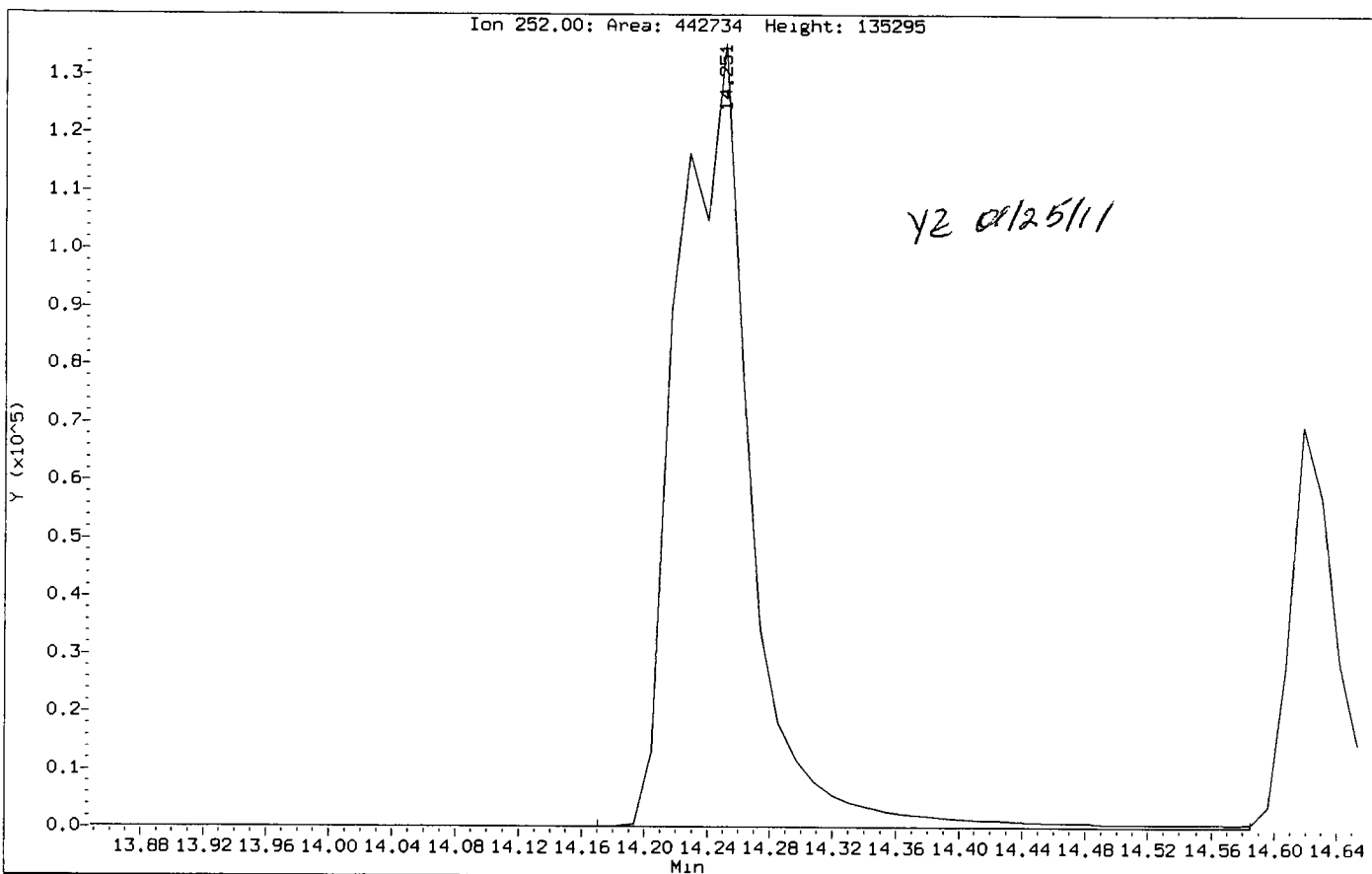
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz

Date: 01/25/11

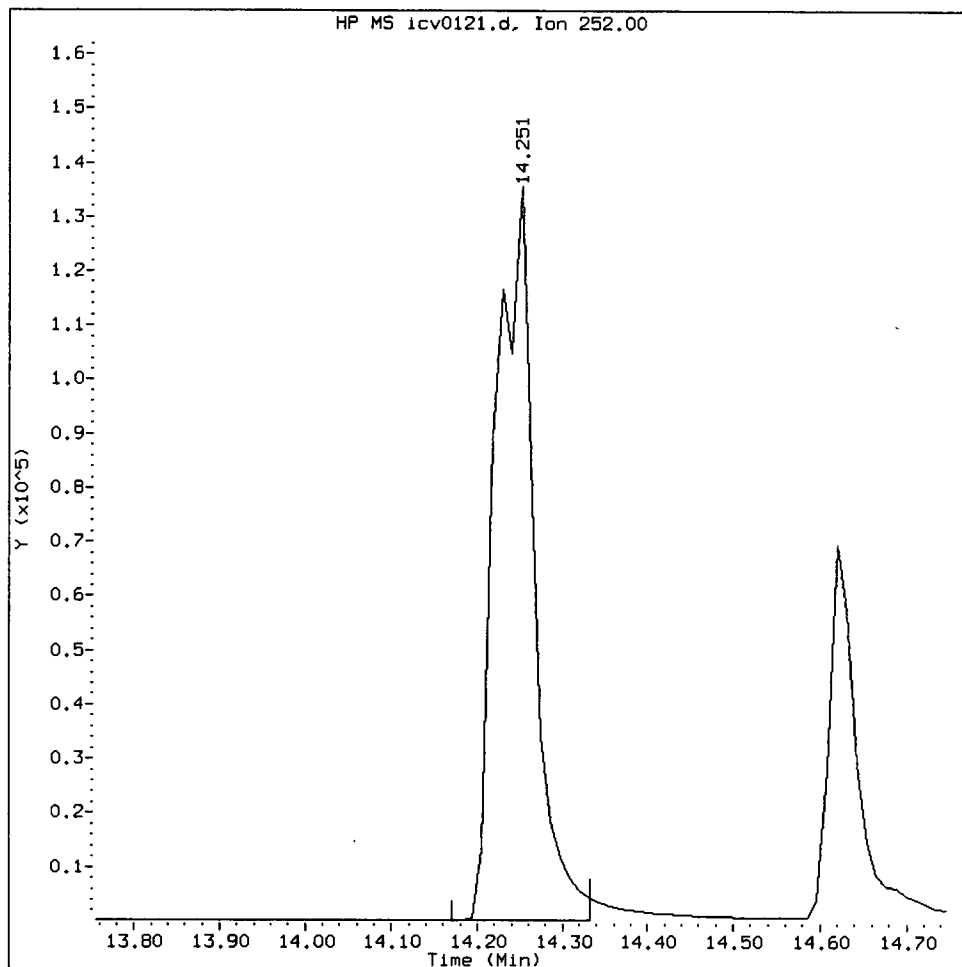
Data File: /chem3/nt11.1/20110121.b/1cv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

Compound: Total Benzofluoranthenes
CAS Number:



SF26:00731

Total Benzofluoranthenes Amount: 626.35 Area: 426238



MANUAL INTEGRATION for Total Benzofluoranthenes

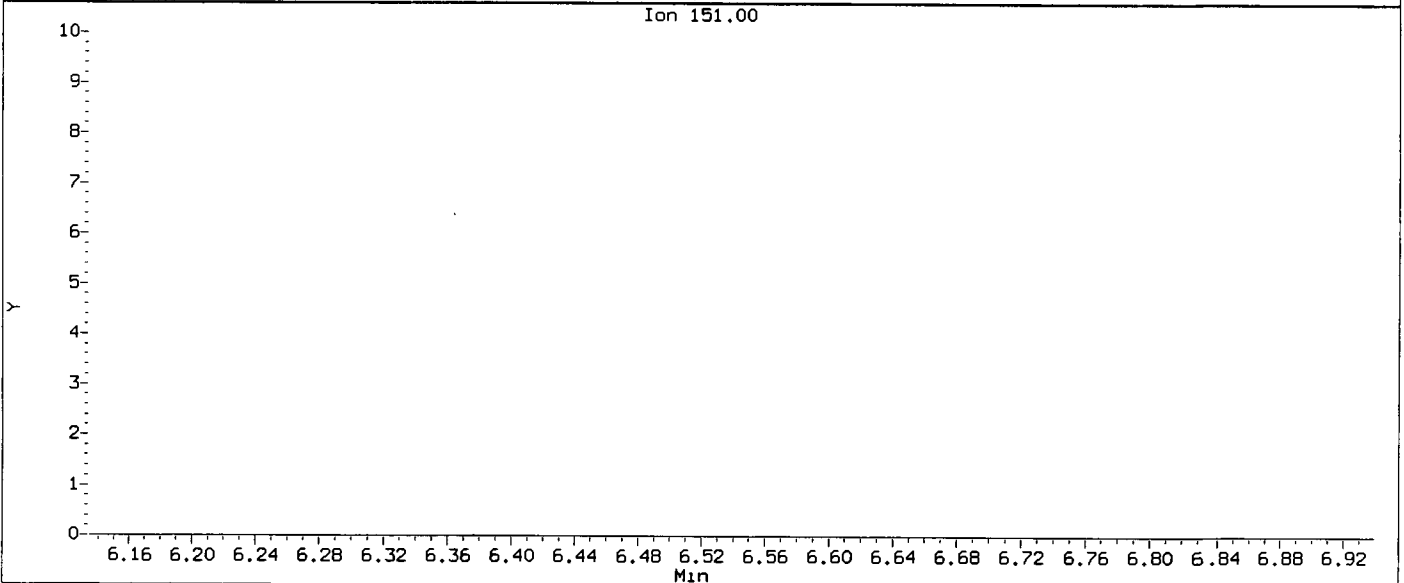
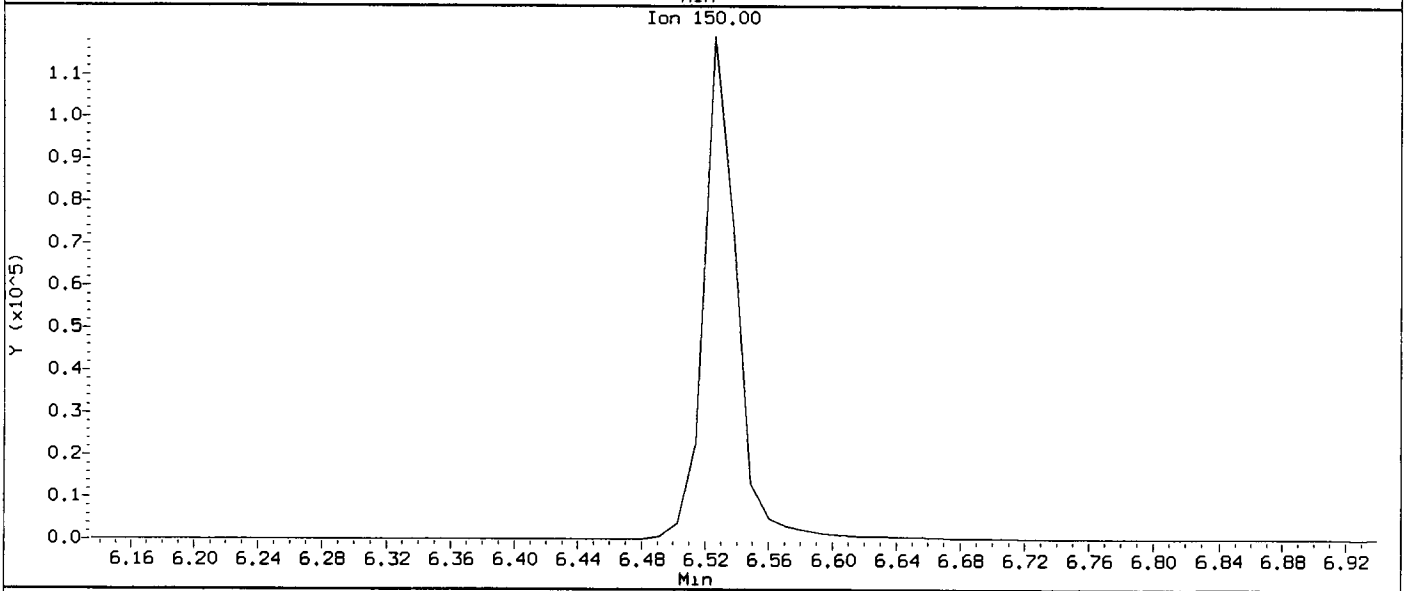
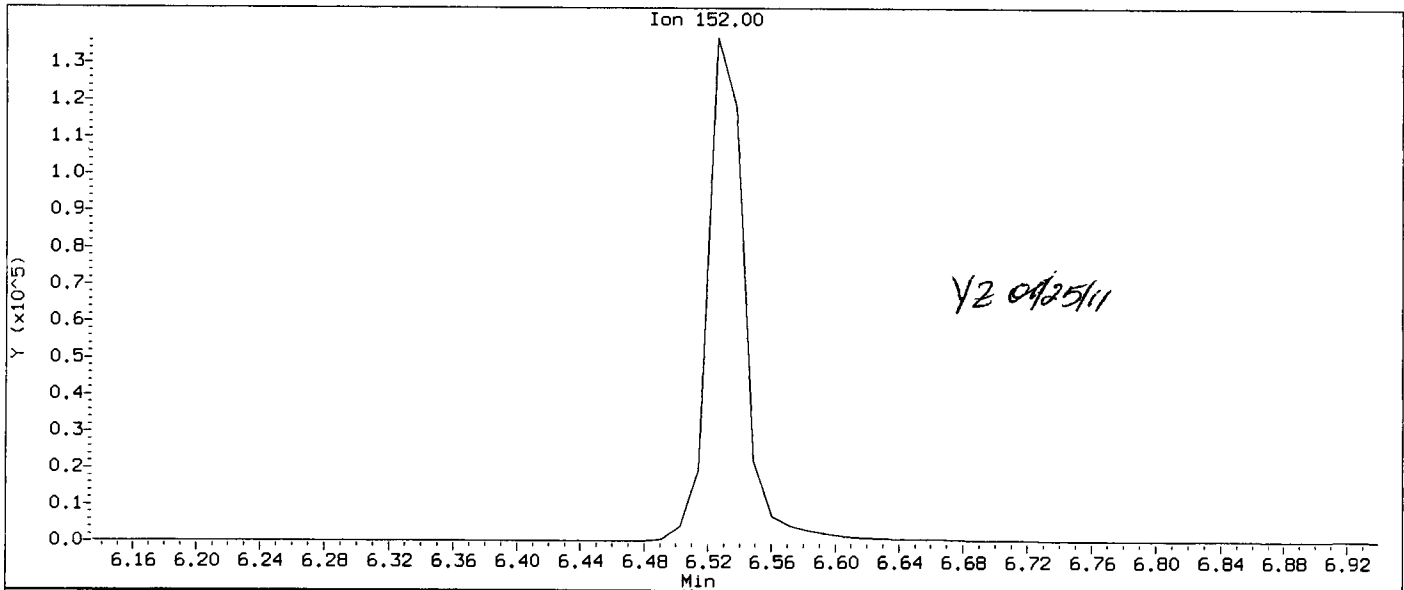
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: YZ

Date: 01/25/11

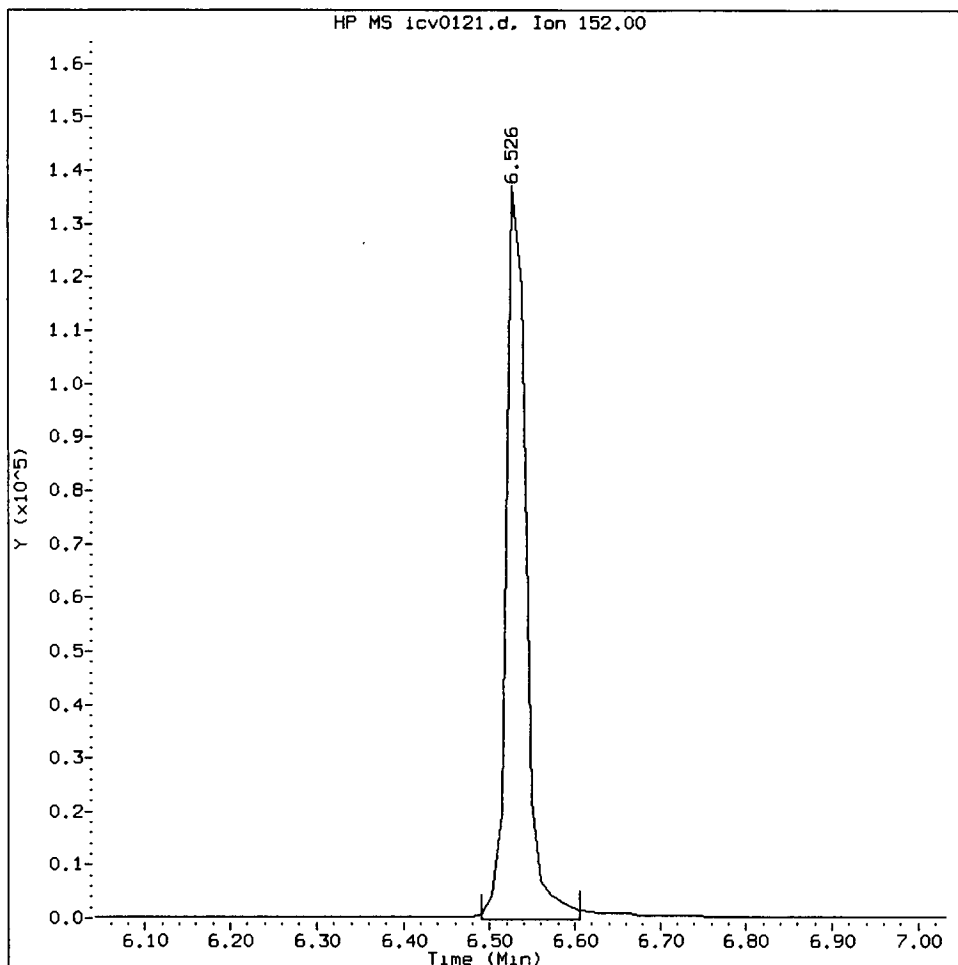
Data File: /chem3/nt11.1/20110121.b/icv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

Compound: 2-Methylnaphthalene-d10
CAS Number:



ICV0121, /chem3/nt11.i/20110121.b/icv0121.d

2-Methylnaphthalene-d10 Amount: 284.31 Area: 222400



MANUAL INTEGRATION for 2-Methylnaphthalene-d10

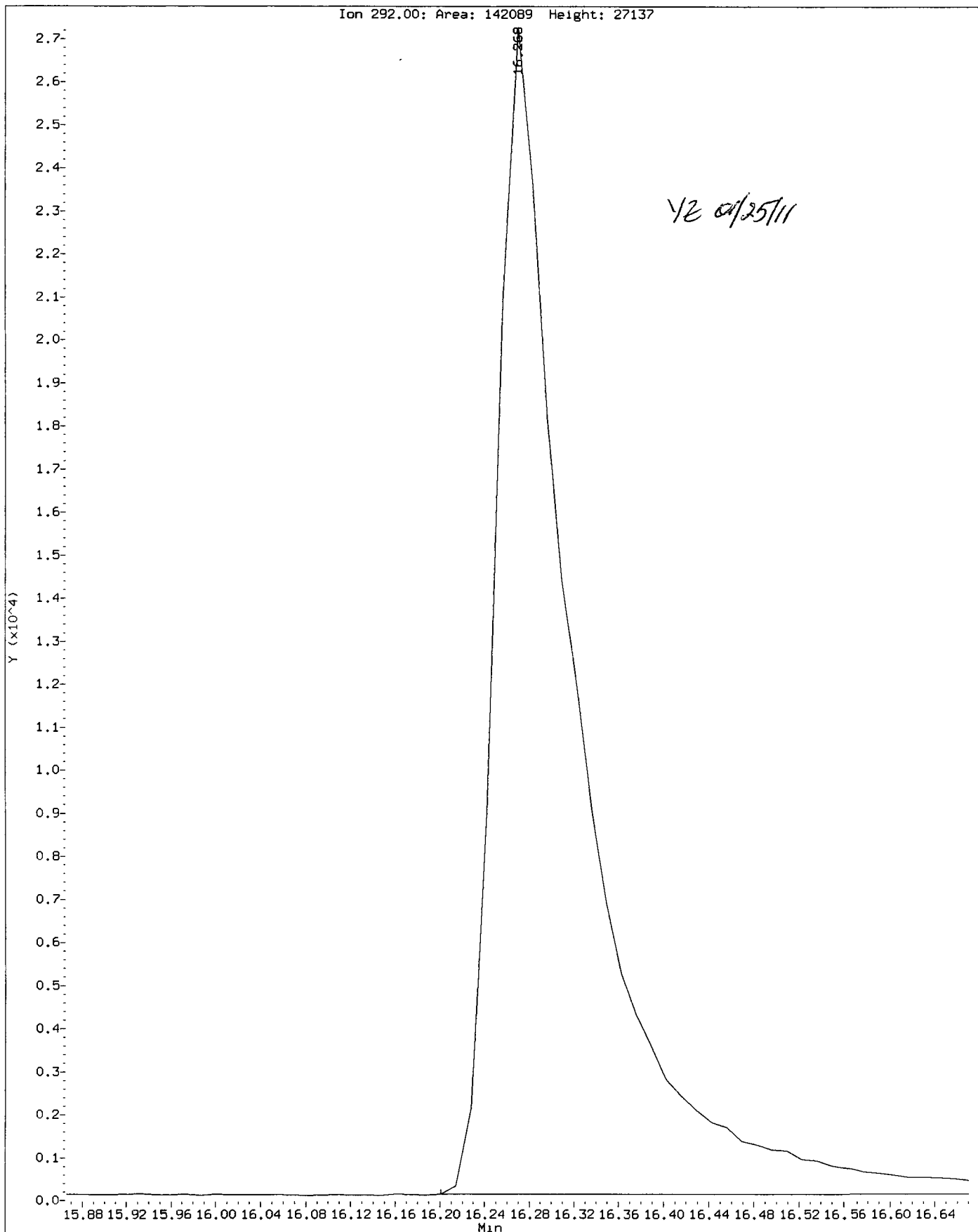
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: yz

Date: 01/25/11

Data File: /chem3/nt11.1/20110121.b/icv0121.d
Injection Date: 21-JAN-2011 17:52
Instrument: nt11.1
Client Sample ID:

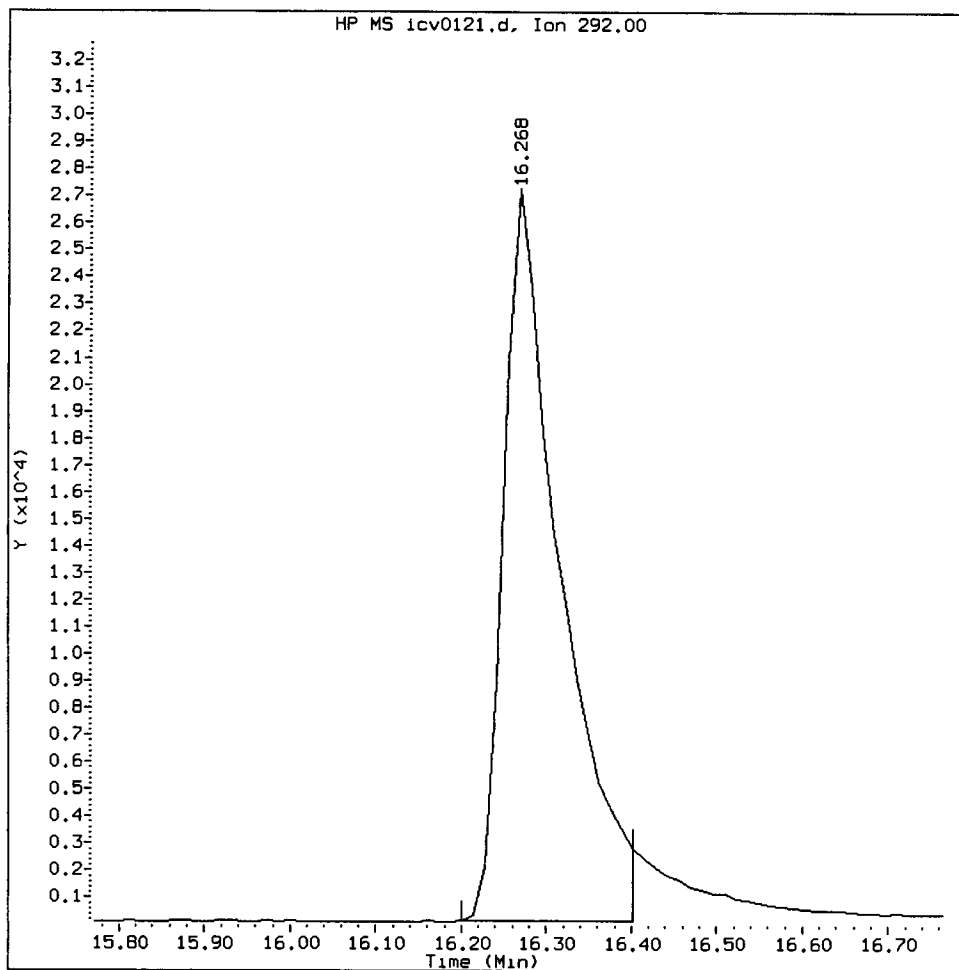
Compound: Dibenzo(a,h)anthracene-d14
CAS Number:



SF26:00735

ICV0121, /chem3/nt11.i/20110121.b/icv0121.d

Dibenzo(a,h)anthracene-d14 Amount: 302.10 Area: 126974



MANUAL INTEGRATION for Dibenzo(a,h)anthracene-d14

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: VE

Date: 01/25/11

CO-ELUTION SUMMARY FOR FILE - icv0121.d

Lab ID: ICV0121, Method: lowsim.m, Instrument: nt11.i, Date: 21-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF 26: 737 ^{BC 3/7/11}

SIM PAH Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SF26, SF50, SF76

738 BC 3/7/4
SF26 : 00766



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SF26 Client ID: FLloyd-Snyder

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): Low SIM

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 01/28/11 Analysis Start Date: 01/26/11

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Internal Standard Meets Criteria?	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO / NA	Method Blank In Control?	<u>YES</u> / NO
Peak Tailing Factor ≤2?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	<u>YES</u> / NO	Q flag applied?	<u>YES</u> / NO
Surrogate Recovery in Control?	<u>YES</u> / NO	Special Analysis Criteria Met?	<u>YES</u> / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	<u>Yes</u> / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 01/28/11

Reviewer: [Signature] Date: 1/28/11



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SF50 Client ID: Floyd / Snider

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): SIM PNA LL

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 01/21/11 Analysis Start Date: 01/26/11

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Internal Standard Meets Criteria?	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO / NA	Method Blank In Control?	<u>YES</u> / NO
Peak Tailing Factor ≤2?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	<u>YES</u> / NO	Q flag applied?	<u>YES</u> / NO
Surrogate Recovery in Control?	<u>YES</u> / NO	Special Analysis Criteria Met?	<u>YES</u> / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	<u>Yes</u> / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: YE Date: 01/2

Reviewer: MW Date: 1/28/11



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SF 76 Client ID: Floyd - Spider

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): LL SIM PNA

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 01/21/11 Analysis Start Date: 01/26/11

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Internal Standard Meets Criteria?	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO / NA	Method Blank In Control?	<u>YES</u> / NO
Peak Tailing Factor ≤2?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	<u>YES</u> / <u>NO</u>	Q flag applied?	<u>YES</u> / <u>NO</u>
Surrogate Recovery in Control?	<u>YES</u> / NO	Special Analysis Criteria Met?	<u>YES</u> / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	<u>Yes</u> / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: XZ Date: 01/28/11

Reviewer: pmw Date: 1/28/11

Analytical Resources Inc.: Organics Instrument Log
NT-11 Serial No.:GC=US10140004, MS=US10481502

Date: 01/26/11 Analysis: Low SIM Analyst: VB
 GC Program: Low SIM Column No: 180397 Column Type: ZB5 ms
 Instrument Tune (.U or .CT.): 1101254 EM Voltage: 2175
 Calibration File: DF 0126 Curve Date: 01/21/11

IS/SS 1754-5 Ical/Ccal 1818-2 LCS/ICV _____

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt11.i/20110126.b

Time	Filename	LabID	ClientId	DF																
1	1328	df0126.d	DF0126		1		NO	ISTDS	FOUND											
2	1342	cc0126.d	CC0126		1		5.70	321336		7.85	181212		9.68	304249		12.96	271766		14.69	222565
3	1412	sf23mb.d	SF23MBWL		1		5.70	327192		7.87	186495		9.68	326131		12.98	269443		14.69	215270
4	1436	sf23ab.d	SF23LCSWL		1		5.70	323706		7.85	193285		9.68	335047		12.96	287156		14.69	230044
5	1500	sf23abd.d	SF23LCSDWL		1		5.70	334426		7.85	199642		9.68	332726		12.96	290683		14.68	236636
6	1523	sf23qla.d	SF23QLC		1		5.70	335674		7.85	195457		9.68	334048		12.96	277142		14.68	221847
7	1547	sf23a.d	SF23A		1		5.70	335547		7.85	199573		9.68	339973		12.96	292409		14.69	244781
8	1611	sf23ams.d	SF23AMS		1		5.70	339542		7.85	204632		9.68	346340		12.96	300922		14.68	244069
9	1634	sf23amsd.d	SF23AMSD		1		5.70	345166		7.85	210951		9.68	355853		12.96	309372		14.68	256185
10	1658	sf23b.d	SF23B		1		5.70	319697		7.85	187375		9.68	315675		12.96	268928		14.69	226500
11	1722	sf23c.d	SF23C		1		5.70	346239		7.85	209269		9.68	348420		12.96	303046		14.68	249957
12	1745	sf23d.d	SF23D		1		5.70	342790		7.85	207046		9.68	350652		12.96	278067		14.68	230933
13	1809	sf23e.d	SF23E		1		5.70	350594		7.85	206910		9.68	348840		12.96	299542		14.68	241703
14	1833	sf23f.d	SF23F		1		5.70	341091		7.85	202922		9.68	340368		12.96	294274		14.68	248395
15	1856	sf27a.d	SF27A		1		5.70	335532		7.85	197623		9.68	341277		12.96	282496		14.68	233125
16	1920	sf27b.d	SF27B		1		5.70	343368		7.85	201994		9.68	349054		12.96	288989		14.68	236940
17	1943	sf78mb.d	SF78MBWL		1		5.70	308167		7.85	183917		9.68	311544		12.96	257186		14.68	205590
18	2007	sf78ab.d	SF78LCSWL		1		5.70	322220		7.85	198845		9.68	332522		12.96	286639		14.68	231010
19	2030	sf78abd.d	SF78LCSDWL		1		5.70	339914		7.85	202787		9.68	343449		12.96	293666		14.68	237993
20	2054	sf78qla.d	SF78QLS		1		5.70	341706		7.85	201018		9.68	347312		12.96	281436		14.68	227541
21	2117	sf78a.d	SF78A		1		5.70	341694		7.85	205192		9.68	349002		12.96	303201		14.68	250817
22	2141	sf78b.d	SF78B		1		5.70	333001		7.85	197765		9.68	334555		12.96	287911		14.68	238480
23	2204	sf26a.d	SF26A		1		5.70	343112		7.85	203272		9.68	353096		12.96	294024		14.68	235449
24	2228	sf26b.d	SF26B		1		5.70	332728		7.85	201655		9.68	344316		12.96	286670		14.68	229407
25	2252	sf26c.d	SF26C		1		5.70	337701		7.85	202747		9.68	345404		12.96	286986		14.68	228324
26	2315	sf26d.d	SF26D		1		5.70	331992		7.85	195883		9.68	337087		12.96	276037		14.68	225870
27	2339	se60a10.d	SE60A	BDC2088-0112	10		5.70	272413		7.85	153967		9.68	270344		12.96	241620		14.68	206770
28	0002	se60c10.d	SE60C	PS2220-01121	10		5.70	337256		7.85	197166		9.68	358546		12.96	305243		14.68	263490

none

VB 01/27/11

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC 0126
 very line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt11.i/20110126.b

ARI Job No.: SF78 Method: lowsim.m Instrument: nt11.i Date: 26-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1943 sf78mb.d SF78MBW1 SF78MBW1 1 2-Methylinaphthalene-d10,

2007 sf78sb.d SF78LCSW1 SF78LCSW1 1 NO MANUAL INTEGRATION

2030 sf78sbd.d SF78LCSW1 SF78LCSW1 1 NO MANUAL INTEGRATION

2204 sf26a.d SF26A MW11-01191 1 NO MANUAL INTEGRATION

2228 sf26b.d SF26B MW10-01191 1 NO MANUAL INTEGRATION

2252 sf26c.d SF26C MW07-01191 1 NO MANUAL INTEGRATION

2315 sf26d.d SF26D MW14-01191 1 NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt11.i/20110126.b

Instrument: nt11.i Date: 26-JAN-2011 Method: lowsim.m

INITIAL CAL: 21-JAN-2011

Compound	%RSD or R ²
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NO Q-FLAGS

CONTINUING CAL: 26-JAN-2011

Compound	%D
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Chrysene	-22.6
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Date : 26-JAN-2011 13:28

Client ID:

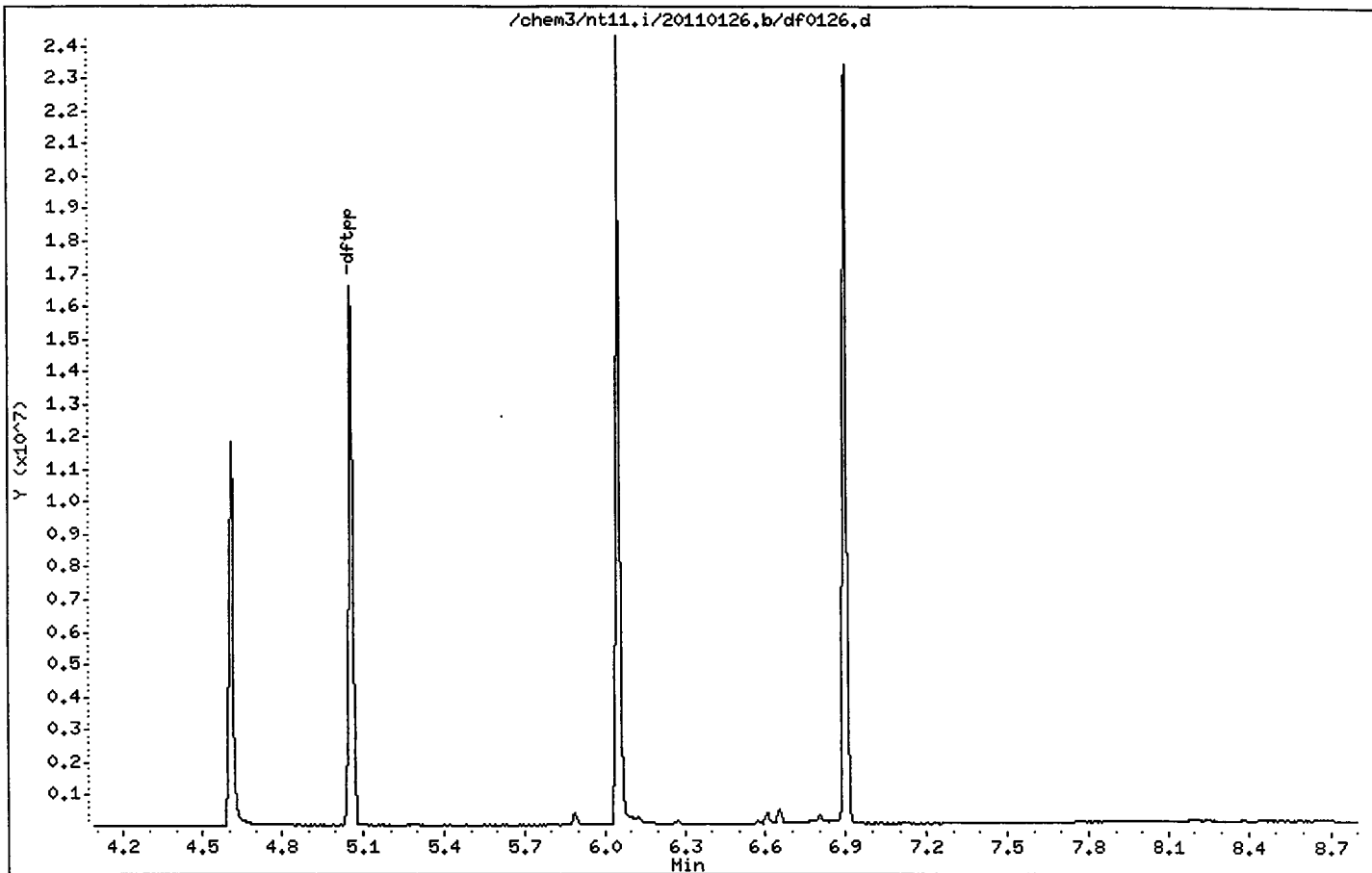
Instrument: nt11.i

Sample Info: DF0126

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25



Date : 26-JAN-2011 13:28

Client ID:

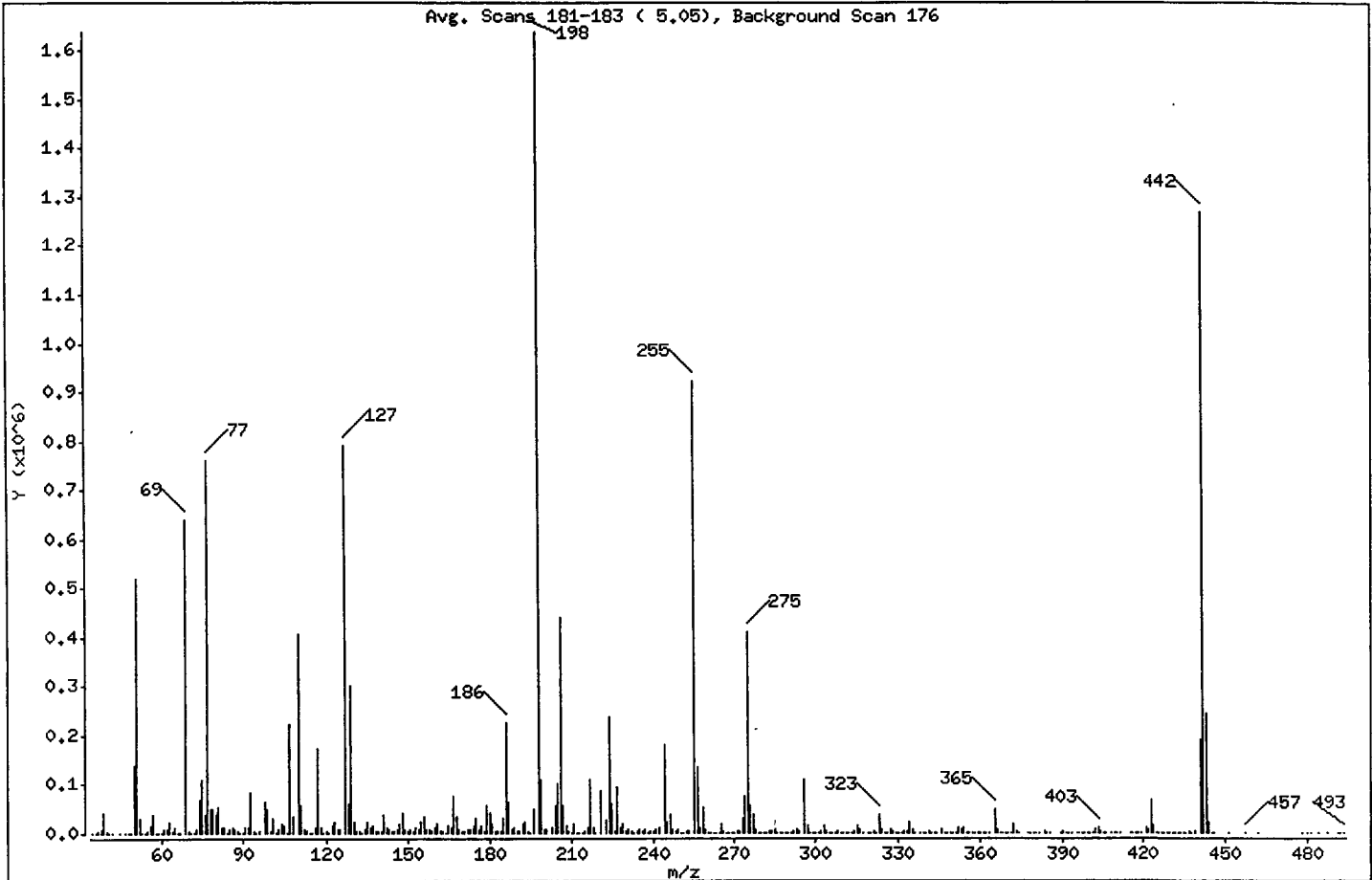
Instrument: nt11.i

Sample Info: DF0126

Operator: yz

Column phase: ZB-5msi
1 dftpp

Column diameter: 0,25



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.77
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.00
70	Less than 2.00% of mass 69	0.21 (0.55)
127	10.00 - 80.00% of mass 198	48.22
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 60.00% of mass 198	25.12
365	Greater than 1.00% of mass 198	2.94
441	0.01 - 24.00% of mass 442	11.70 (15.11)
442	50.00 - 200.00% of mass 198	77.38
443	15.00 - 24.00% of mass 442	15.01 (19.40)

Date : 26-JAN-2011 13:28

Client ID:

Instrument: nt11.i

Sample Info: DF0126

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0126.d

Spectrum: Avg. Scans 181-183 (5.05), Background Scan 176

Location of Maximum: 198.00

Number of points: 393

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	26	141.00	37864	245.00	24104	349.00	239
36.00	215	142.00	11529	246.00	35920	350.00	466
37.00	2656	143.00	8211	247.00	7300	351.00	662
38.00	6751	144.00	2120	248.00	2705	352.00	10010
39.00	40936	145.00	2537	249.00	6733	353.00	7381
40.00	2684	146.00	5859	250.00	974	354.00	9743
41.00	760	147.00	19792	251.00	1866	355.00	1746
42.00	181	148.00	42240	252.00	1911	356.00	292
45.00	632	149.00	8181	253.00	3991	357.00	136
47.00	292	150.00	2488	255.00	921600	358.00	531
48.00	313	151.00	6290	256.00	136576	359.00	843
49.00	1274	152.00	2490	257.00	11165	360.00	323
50.00	138816	153.00	12053	258.00	53112	361.00	307
51.00	520640	154.00	9049	259.00	8229	362.00	436
52.00	28320	155.00	21616	260.00	1588	363.00	597
53.00	275	156.00	32944	261.00	1564	365.00	48128
54.00	286	157.00	7141	262.00	560	366.00	8335
55.00	2149	158.00	6697	263.00	425	367.00	717
56.00	15071	159.00	5549	264.00	1667	368.00	262
57.00	36192	160.00	11813	265.00	20448	369.00	103
58.00	1156	161.00	17144	266.00	3074	370.00	796
59.00	526	162.00	4483	267.00	105	371.00	662
60.00	230	163.00	2009	268.00	207	372.00	19472
61.00	7025	164.00	1518	269.00	322	373.00	4602
62.00	8538	165.00	13991	270.00	1187	374.00	637
63.00	24456	166.00	12797	271.00	2788	377.00	355
64.00	2723	167.00	75280	272.00	3172	378.00	277
65.00	11885	168.00	35792	273.00	30016	379.00	122
66.00	1008	169.00	6420	274.00	75272	380.00	87
67.00	1649	170.00	2897	275.00	411712	381.00	152
69.00	639232	171.00	3111	276.00	55424	383.00	4737
70.00	3502	172.00	7531	277.00	36088	384.00	1229
71.00	876	173.00	7401	278.00	6875	385.00	458
72.00	578	174.00	15750	279.00	1453	389.00	219
73.00	5842	175.00	31880	280.00	279	390.00	2129

Date : 26-JAN-2011 13:28

Client ID:

Instrument: nt11.i

Sample Info: DF0126

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0126.d

Spectrum: Avg. Scans 181-183 (5.05), Background Scan 176

Location of Maximum: 198.00

Number of points: 393

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	66608	176.00	8287	281.00	89	391.00	1724
75.00	109704	177.00	14547	282.00	908	392.00	1455
76.00	37736	178.00	2582	283.00	4151	393.00	539
77.00	760576	179.00	57784	284.00	3043	395.00	350
78.00	50496	180.00	40168	285.00	5934	396.00	264
79.00	49952	181.00	19888	286.00	1433	397.00	582
80.00	36376	182.00	3010	287.00	234	398.00	208
81.00	52600	183.00	2585	288.00	633	399.00	130
82.00	11856	184.00	5373	289.00	1626	400.00	59
83.00	12079	185.00	30616	290.00	1623	401.00	1207
84.00	1716	186.00	224320	291.00	835	402.00	7329
85.00	9160	187.00	65872	292.00	2381	403.00	12500
86.00	13157	188.00	6188	293.00	7885	404.00	4207
87.00	5763	189.00	12857	294.00	2113	405.00	693
88.00	2626	190.00	2923	296.00	110224	406.00	120
89.00	1304	191.00	5062	297.00	15638	408.00	73
90.00	83	192.00	19184	298.00	1094	409.00	77
91.00	10998	193.00	22760	299.00	78	410.00	301
92.00	13052	194.00	4297	300.00	187	411.00	325
93.00	83784	195.00	580	301.00	1726	415.00	986
94.00	5601	196.00	49880	302.00	2349	416.00	61
95.00	1779	198.00	1638912	303.00	14162	417.00	54
96.00	3643	199.00	111096	304.00	4096	418.00	419
98.00	63864	200.00	9213	305.00	664	419.00	470
99.00	47976	201.00	8246	306.00	325	421.00	9456
100.00	4301	203.00	11645	307.00	318	422.00	6303
101.00	28584	204.00	57216	308.00	2111	423.00	67848
102.00	974	205.00	100464	309.00	1634	424.00	13766
103.00	8956	206.00	441344	310.00	1523	425.00	1201
104.00	18528	207.00	55616	311.00	268	426.00	60
105.00	16824	208.00	14515	312.00	311	427.00	85
106.00	1538	209.00	4692	313.00	1250	428.00	241
107.00	223232	210.00	1466	314.00	5514	429.00	350
108.00	33392	211.00	17512	315.00	13559	430.00	351
110.00	407616	212.00	1322	316.00	7875	431.00	520

Date : 26-JAN-2011 13:28

Client ID:

Instrument: nt11.i

Sample Info: DF0126

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0126.d

Spectrum: Avg. Scans 181-183 (5.05), Background Scan 176

Location of Maximum: 198.00

Number of points: 393

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	57600	213.00	1835	317.00	1150	432.00	281
112.00	6906	214.00	338	319.00	585	433.00	643
113.00	1930	215.00	3729	320.00	535	434.00	477
114.00	568	216.00	10331	321.00	3256	435.00	609
115.00	305	217.00	108592	322.00	1534	436.00	808
116.00	12248	218.00	12632	323.00	35864	437.00	1962
117.00	172736	219.00	1217	324.00	7333	438.00	1562
118.00	12166	221.00	87136	325.00	481	439.00	2085
119.00	981	223.00	26064	326.00	578	441.00	191680
120.00	2684	224.00	238528	327.00	6518	442.00	1268224
121.00	650	225.00	61952	328.00	3677	443.00	246080
122.00	14412	226.00	2536	329.00	556	444.00	21680
123.00	21872	227.00	94296	330.00	154	445.00	1400
124.00	9409	228.00	12221	331.00	457	446.00	63
125.00	8842	229.00	19152	332.00	2663	451.00	71
127.00	790272	230.00	3292	333.00	3309	457.00	89
128.00	58984	231.00	8279	334.00	22264	462.00	71
129.00	300672	232.00	2451	335.00	6355	478.00	72
130.00	24024	233.00	1655	336.00	665	480.00	54
131.00	4372	234.00	4737	338.00	104	481.00	85
132.00	2616	235.00	7882	339.00	713	484.00	50
133.00	948	236.00	5630	340.00	814	485.00	54
134.00	8434	237.00	8356	341.00	5206	487.00	70
135.00	21504	238.00	1211	342.00	852	491.00	80
136.00	9669	239.00	2903	343.00	271	492.00	55
137.00	13486	240.00	3437	344.00	50	493.00	53
138.00	2467	241.00	6418	346.00	8202		
139.00	2003	242.00	12377	347.00	1619		
140.00	3617	244.00	180864	348.00	202		

Data File: /chem3/nt11.1/20110126.b/ddt.b/df0126.d
Injection Date: 26-JAN-2011 13:28
Instrument: nt11.1
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

