

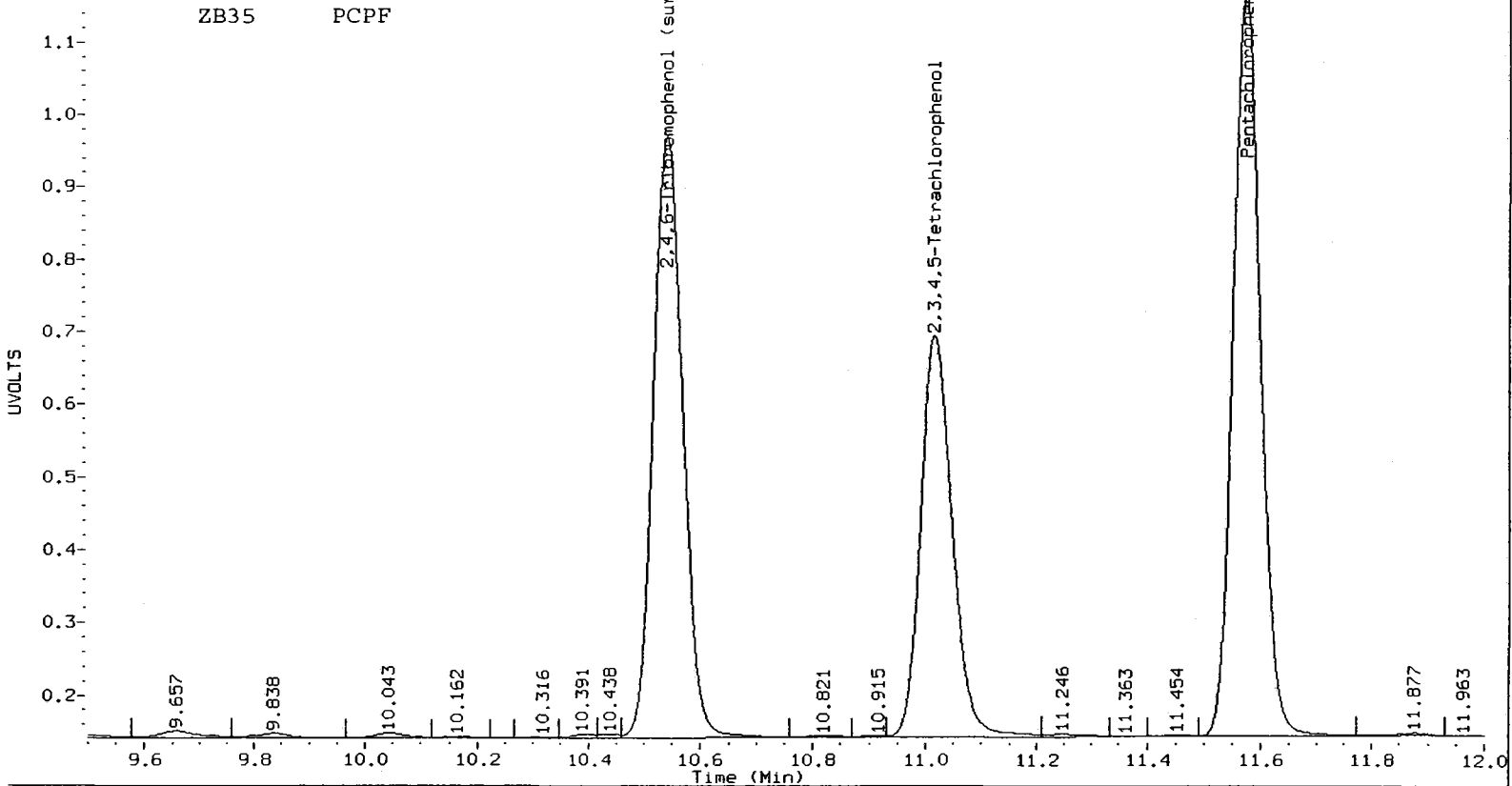
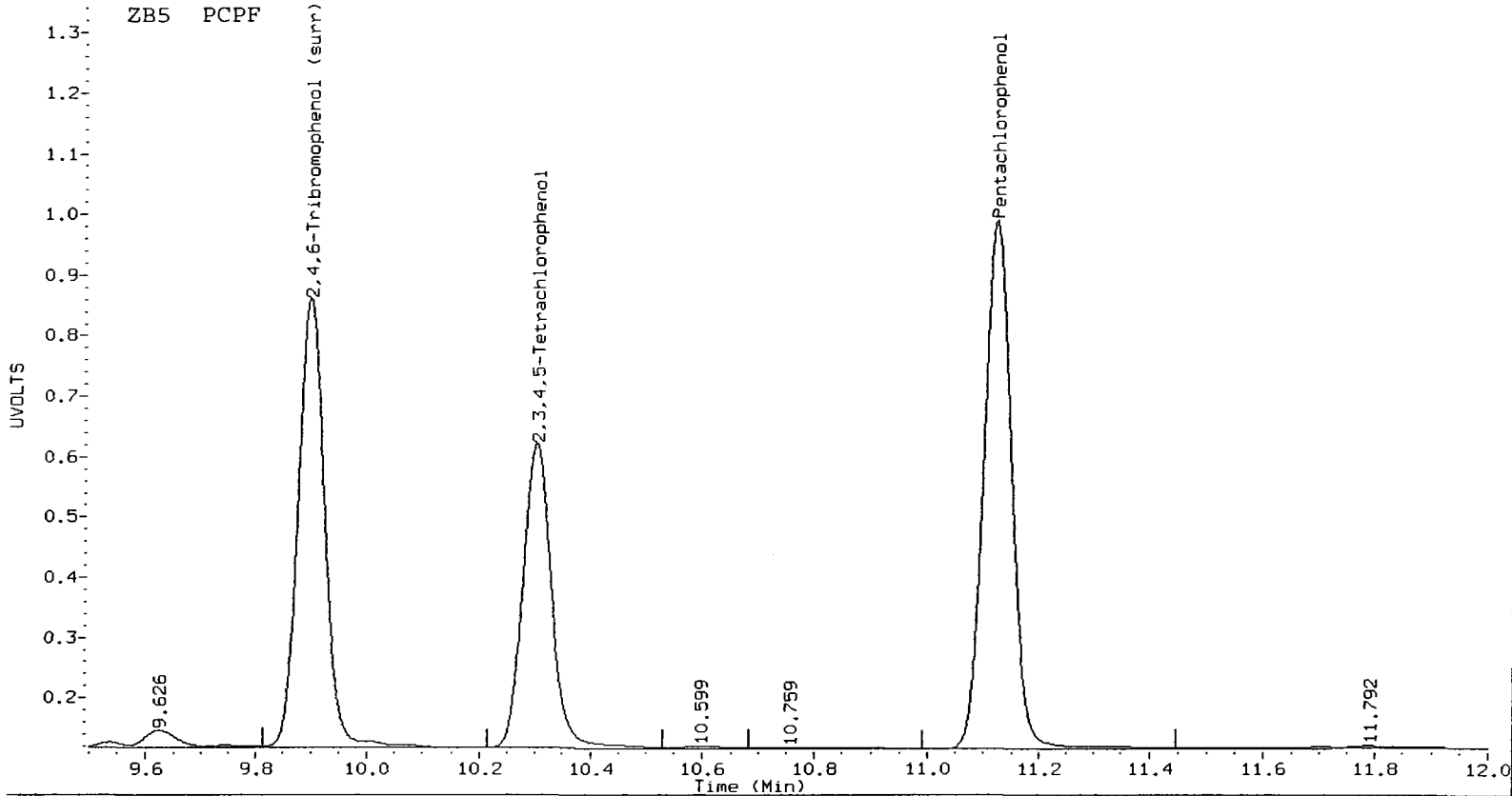
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A016.d ARI ID: PCPF
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A016.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:56
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col | | RT | ZB35 Col | | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------|----------|--------|----------|----------|----------------|----------------|------|---------------------------|
| | Shift | Response | | Shift | Response | | | | |
| 11.123 | 0.000 | 1514288 | 11.572 | -0.004 | 1735502 | 82.7019 | 84.4327 | 2.1 | Pentachlorophenol |
| 7.190 | 0.000 | 804812 | 7.261 | -0.001 | 930429 | 79.6454 | 80.6929 | 1.3 | 2,4,6-Trichlorophenol |
| 7.540 | 0.000 | 812798 | 7.785 | -0.002 | 938616 | 81.1142 | 83.2139 | 2.6 | 2,3,6-Trichlorophenol |
| 8.137 | 0.000 | 408754 | 8.510 | -0.009 | 458891 | 80.7591 | 77.7679 | 3.8 | 2,4,5-Trichlorophenol |
| 8.681 | 0.000 | 526042 | 9.271 | -0.010 | 614354 | 74.3764 | 78.6910 | 5.6 | 2,3,4-Trichlorophenol |
| 8.912 | 0.000 | 1270676 | 9.179 | -0.005 | 1441375 | 82.7830 | 84.8470 | 2.5 | 2,3,5,6-Tetrachloropheno |
| 10.302 | 0.000 | 902416 | 11.016 | -0.007 | 1077091 | 76.8427 | 82.3380 | 6.9 | 2,3,4,5-Tetrachlorophenol |
| 6.817 | 0.000 | 376259 | 7.087 | -0.003 | 409238 | 938.2954 | 703.1714 | 28.6 | 2,4-Dichlorophenol |
| 9.899 | 0.000 | 1246694 | 10.541 | -0.005 | 1496833 | 85.4 | 89.6 | 4.8 | 2,4,6-Tribromophenol (sur |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|-------|-------|
| 2,4,6-TBP (surr) | 341.5 | 358.4 |



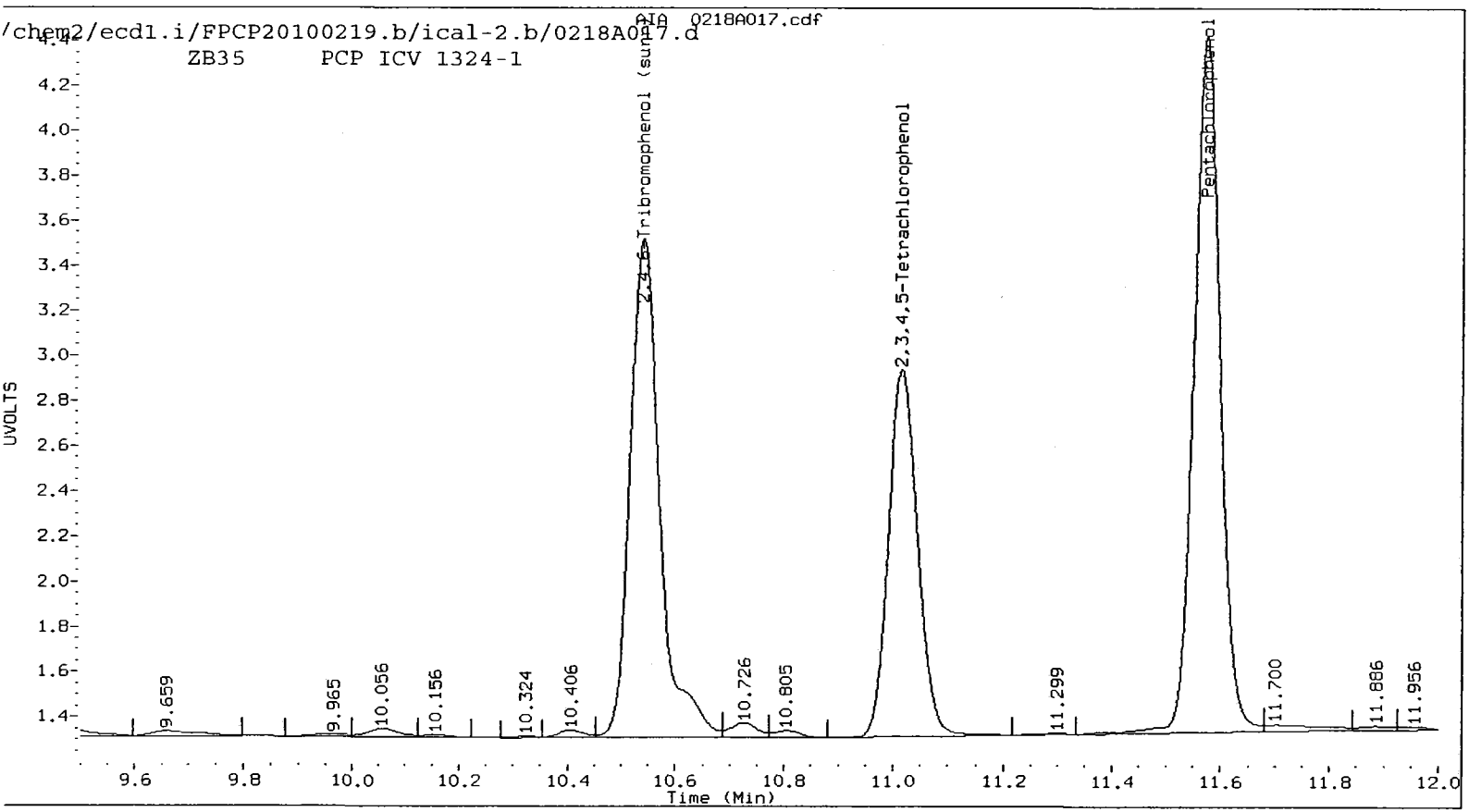
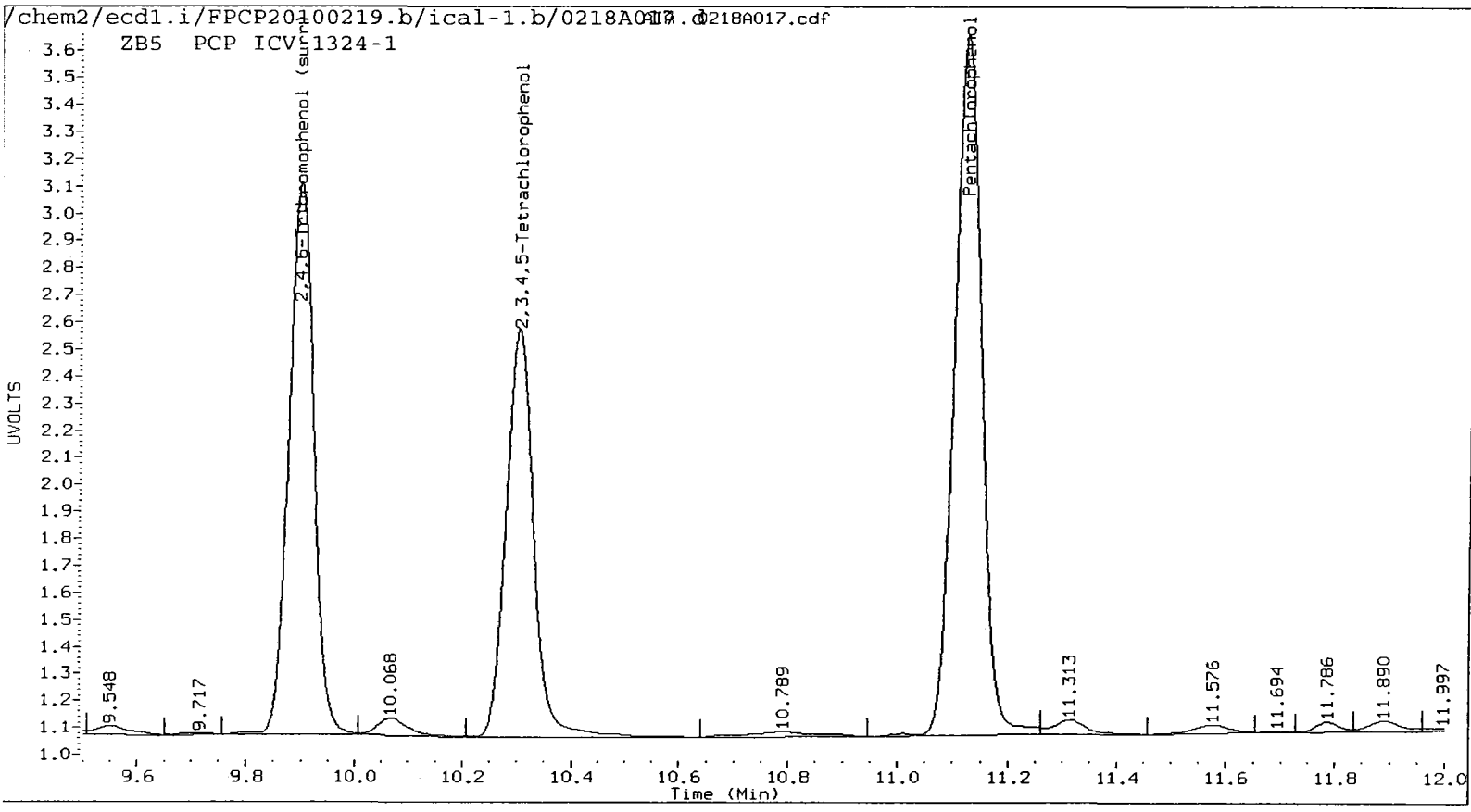
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A017.d ARI ID: PCP ICV 1324-1
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A017.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 22:16
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.123 | 0.000 | 442522 | 11.573 | -0.003 | 520085 | 24.1681 | 25.3023 | 4.6 | Pentachlorophenol |
| 7.190 | 0.000 | 262734 | 7.262 | 0.000 | 296428 | 26.0005 | 25.7082 | 1.1 | 2,4,6-Trichlorophenol |
| 7.540 | 0.000 | 232672 | 7.786 | -0.001 | 268515 | 23.2198 | 23.8055 | 2.5 | 2,3,6-Trichlorophenol |
| 8.133 | -0.004 | 143744 | 8.511 | -0.008 | 149667 | 28.4001 | 25.3640 | 11.3 | 2,4,5-Trichlorophenol |
| 8.679 | -0.002 | 167164 | 9.271 | -0.010 | 173518 | 23.6351 | 22.2254 | 6.1 | 2,3,4-Trichlorophenol |
| 8.910 | -0.002 | 349991 | 9.180 | -0.004 | 419174 | 22.8015 | 24.6749 | 7.9 | 2,3,5,6-Tetrachlorophenol |
| 10.302 | 0.000 | 265864 | 11.017 | -0.006 | 298698 | 22.6389 | 22.8340 | 0.9 | 2,3,4,5-Tetrachlorophenol |
| 6.820 | 0.003 | 121854 | 7.090 | -0.001 | 134770 | 303.8732 | 231.5688 | 27.0 | 2,4-Dichlorophenol |
| 9.898 | -0.001 | 323910 | 10.542 | -0.005 | 418827 | 22.2 | 25.1 | 12.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 96.7 | 101.2 |
| 2,4,6-Trichlorophenol | 104.0 | 102.8 |
| 2,3,6-Trichlorophenol | 92.9 | 95.2 |
| 2,4,5-Trichlorophenol | 113.6 | 101.5 |
| 2,3,4-Trichlorophenol | 94.5 | 88.9 |
| 2,3,5,6-Tetrachlorophenol | 91.2 | 98.7 |
| 2,3,4,5-Tetrachlorophenol | 90.6 | 91.3 |
| 2,4-Dichlorophenol | 121.5 | 92.6 |
| 2,4,6-TBP (surr) | 44.4 | 50.1 |



7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No.: QQ59

Project: LORA LAKE APTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP):

Date Analyzed :04/03/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0010

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.13 | 11.05 | 11.19 | 25.5 | 25.0 | 2.0 |
| 2,4,6-Trichlorophenol | 7.20 | 7.12 | 7.26 | 30.6 | 25.0 | 22.4 |
| 2,3,6-Trichlorophenol | 7.55 | 7.47 | 7.61 | 24.2 | 25.0 | -3.2 |
| 2,4,5-Trichlorophenol | 8.15 | 8.07 | 8.21 | 26.3 | 25.0 | 5.2 |
| 2,3,4-Trichlorophenol | 8.70 | 8.61 | 8.75 | 27.1 | 25.0 | 8.4 |
| 2,3,5,6-Tetrachlorophenol | 8.92 | 8.84 | 8.98 | 26.4 | 25.0 | 5.6 |
| 2,3,4,5-Tetrachlorophenol | 10.32 | 10.23 | 10.37 | 25.2 | 25.0 | 0.8 |
| 2,4-Dichlorophenol | 6.83 | 6.75 | 6.89 | 250 | 250 | 0.0 |
| 2,4,6-Tribromophenol (surr) | 9.91 | 9.83 | 9.97 | 25.0 | 25.0 | 0.0 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 5.3

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No.: QQ59

Project: LORA LAKE APTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :04/03/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0010

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.58 | 11.51 | 11.65 | 25.9 | 25.0 | 3.6 |
| 2,4,6-Trichlorophenol | 7.27 | 7.19 | 7.33 | 26.2 | 25.0 | 4.8 |
| 2,3,6-Trichlorophenol | 7.79 | 7.72 | 7.86 | 25.8 | 25.0 | 3.2 |
| 2,4,5-Trichlorophenol | 8.52 | 8.45 | 8.59 | 25.6 | 25.0 | 2.4 |
| 2,3,4-Trichlorophenol | 9.28 | 9.21 | 9.35 | 24.9 | 25.0 | -0.4 |
| 2,3,5,6-Tetrachlorophenol | 9.19 | 9.11 | 9.25 | 25.1 | 25.0 | 0.4 |
| 2,3,4,5-Tetrachlorophenol | 11.03 | 10.95 | 11.09 | 24.6 | 25.0 | -1.6 |
| 2,4-Dichlorophenol | 7.09 | 7.02 | 7.16 | 261 | 250 | 4.4 |
| 2,4,6-Tribromophenol (surr) | 10.55 | 10.48 | 10.62 | 25.4 | 25.0 | 1.6 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 2.5

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

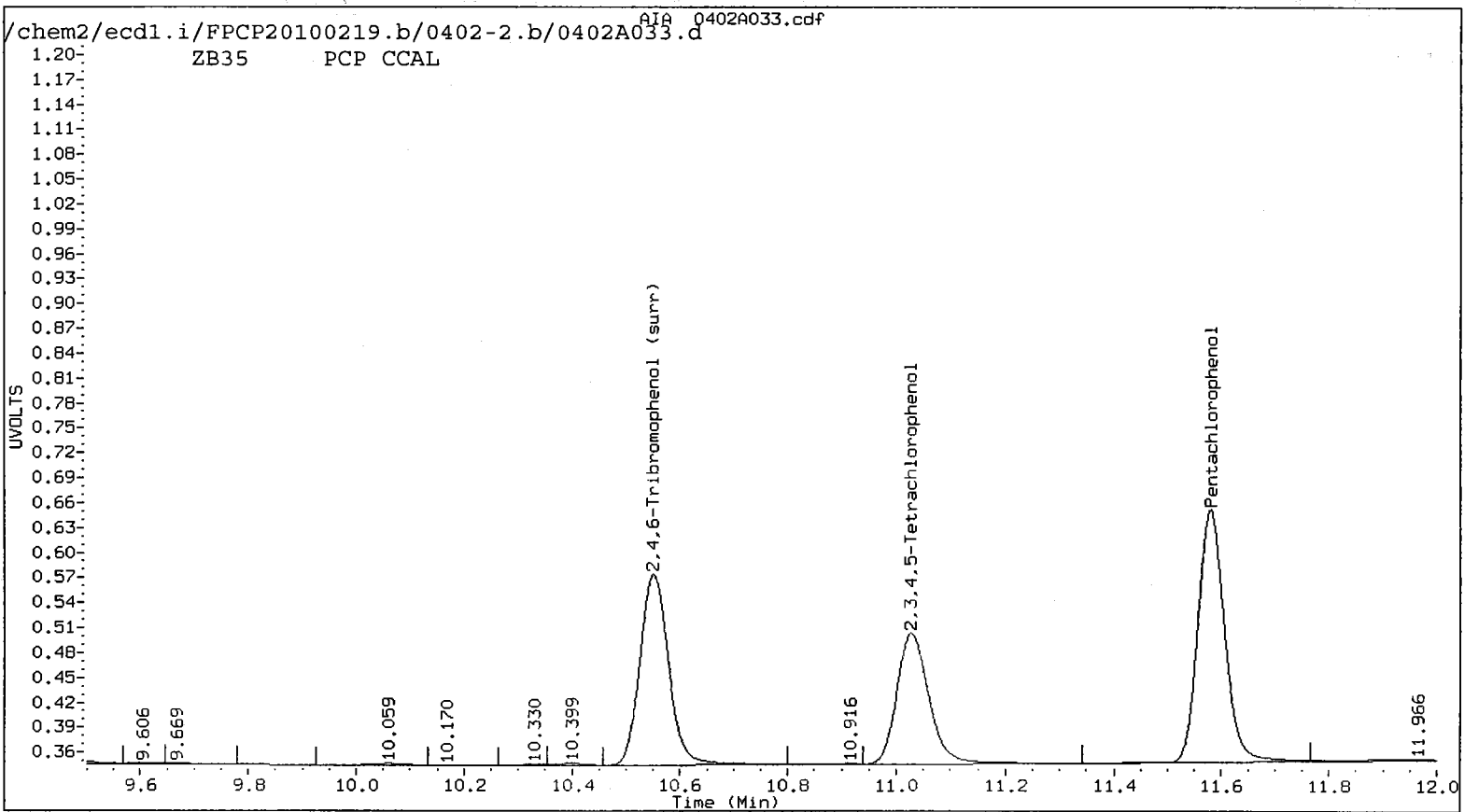
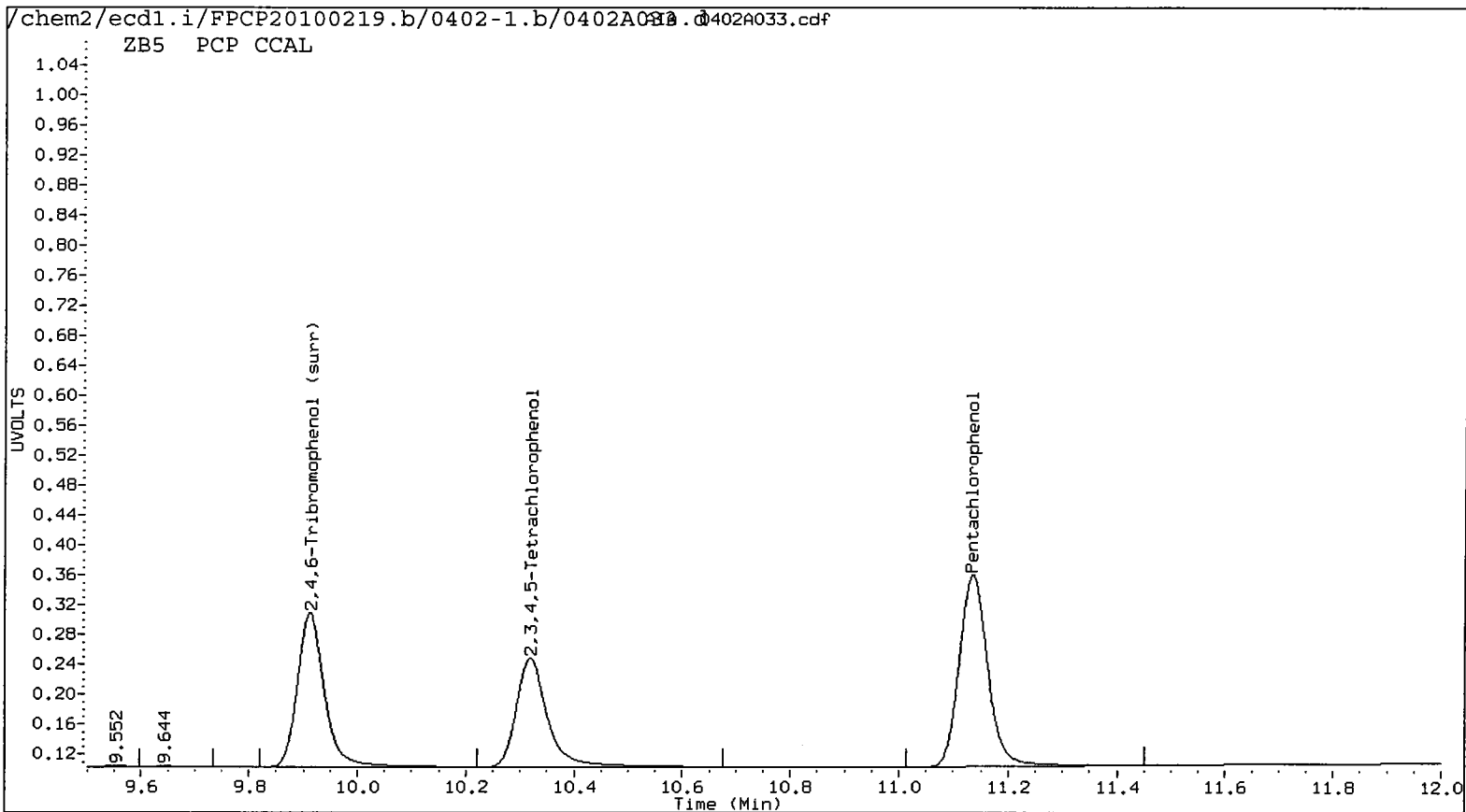
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 03-APR-2010 00:10
 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.135 | 0.012 | 466378 | 11.579 | 0.003 | 532928 | 25.4710 | 25.9271 | 1.8 | Pentachlorophenol |
| 7.199 | 0.009 | 309049 | 7.265 | 0.003 | 297922 | 30.5840 | 26.1915 | 15.5 | 2,4,6-Trichlorophenol |
| 7.551 | 0.011 | 242142 | 7.791 | 0.004 | 290894 | 24.1649 | 25.7895 | 6.5 | 2,3,6-Trichlorophenol |
| 8.153 | 0.016 | 133129 | 8.521 | 0.001 | 150963 | 26.3030 | 25.5837 | 2.8 | 2,4,5-Trichlorophenol |
| 8.699 | 0.018 | 191755 | 9.282 | 0.001 | 194106 | 27.1121 | 24.8625 | 8.7 | 2,3,4-Trichlorophenol |
| 8.923 | 0.011 | 405000 | 9.187 | 0.003 | 425881 | 26.3853 | 25.0696 | 5.1 | 2,3,5,6-Tetrachlorophenol |
| 10.319 | 0.017 | 295591 | 11.028 | 0.005 | 321942 | 25.1703 | 24.6108 | 2.2 | 2,3,4,5-Tetrachlorophenol |
| 6.827 | 0.010 | 122900 | 7.094 | 0.003 | 147310 | 249.6283 | 261.1067 | 4.5 | 2,4-Dichlorophenol |
| 9.912 | 0.013 | 364783 | 10.550 | 0.004 | 424965 | 25.0 | 25.4 | 1.8 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 101.9 | 103.7 |
| 2,4,6-Trichlorophenol | 122.3 | 104.8 |
| 2,3,6-Trichlorophenol | 96.7 | 103.2 |
| 2,4,5-Trichlorophenol | 105.2 | 102.3 |
| 2,3,4-Trichlorophenol | 108.4 | 99.5 |
| 2,3,5,6-Tetrachlorophenol | 105.5 | 100.3 |
| 2,3,4,5-Tetrachlorophenol | 100.7 | 98.4 |
| 2,4-Dichlorophenol | 99.9 | 104.4 |
| 2,4,6-TBP (surr) | 99.9 | 101.8 |

Handwritten signature/initials



7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No.: QQ59

Project: LORA LAKE APTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP):

Date Analyzed :04/03/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0308

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.14 | 11.05 | 11.19 | 26.0 | 25.0 | 4.0 |
| 2,4,6-Trichlorophenol | 7.20 | 7.12 | 7.26 | 31.0 | 25.0 | 24.0 |
| 2,3,6-Trichlorophenol | 7.55 | 7.47 | 7.61 | 24.8 | 25.0 | -0.8 |
| 2,4,5-Trichlorophenol | 8.15 | 8.07 | 8.21 | 26.8 | 25.0 | 7.2 |
| 2,3,4-Trichlorophenol | 8.70 | 8.61 | 8.75 | 27.1 | 25.0 | 8.4 |
| 2,3,5,6-Tetrachlorophenol | 8.92 | 8.84 | 8.98 | 26.6 | 25.0 | 6.4 |
| 2,3,4,5-Tetrachlorophenol | 10.32 | 10.23 | 10.37 | 25.5 | 25.0 | 2.0 |
| 2,4-Dichlorophenol | 6.83 | 6.75 | 6.89 | 256 | 250 | 2.4 |
| 2,4,6-Tribromophenol (surr) | 9.91 | 9.83 | 9.97 | 25.5 | 25.0 | 2.0 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 6.4

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No.: QQ59

Project: LORA LAKE APTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed : 04/03/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed : 0308

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.58 | 11.51 | 11.65 | 26.6 | 25.0 | 6.4 |
| 2,4,6-Trichlorophenol | 7.27 | 7.19 | 7.33 | 26.7 | 25.0 | 6.8 |
| 2,3,6-Trichlorophenol | 7.79 | 7.72 | 7.86 | 29.0 | 25.0 | 16.0 |
| 2,4,5-Trichlorophenol | 8.52 | 8.45 | 8.59 | 26.2 | 25.0 | 4.8 |
| 2,3,4-Trichlorophenol | 9.28 | 9.21 | 9.35 | 25.6 | 25.0 | 2.4 |
| 2,3,5,6-Tetrachlorophenol | 9.19 | 9.11 | 9.25 | 25.7 | 25.0 | 2.8 |
| 2,3,4,5-Tetrachlorophenol | 11.03 | 10.95 | 11.09 | 25.3 | 25.0 | 1.2 |
| 2,4-Dichlorophenol | 7.09 | 7.02 | 7.16 | 267 | 250 | 6.8 |
| 2,4,6-Tribromophenol (surr) | 10.55 | 10.48 | 10.62 | 26.0 | 25.0 | 4.0 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 5.7

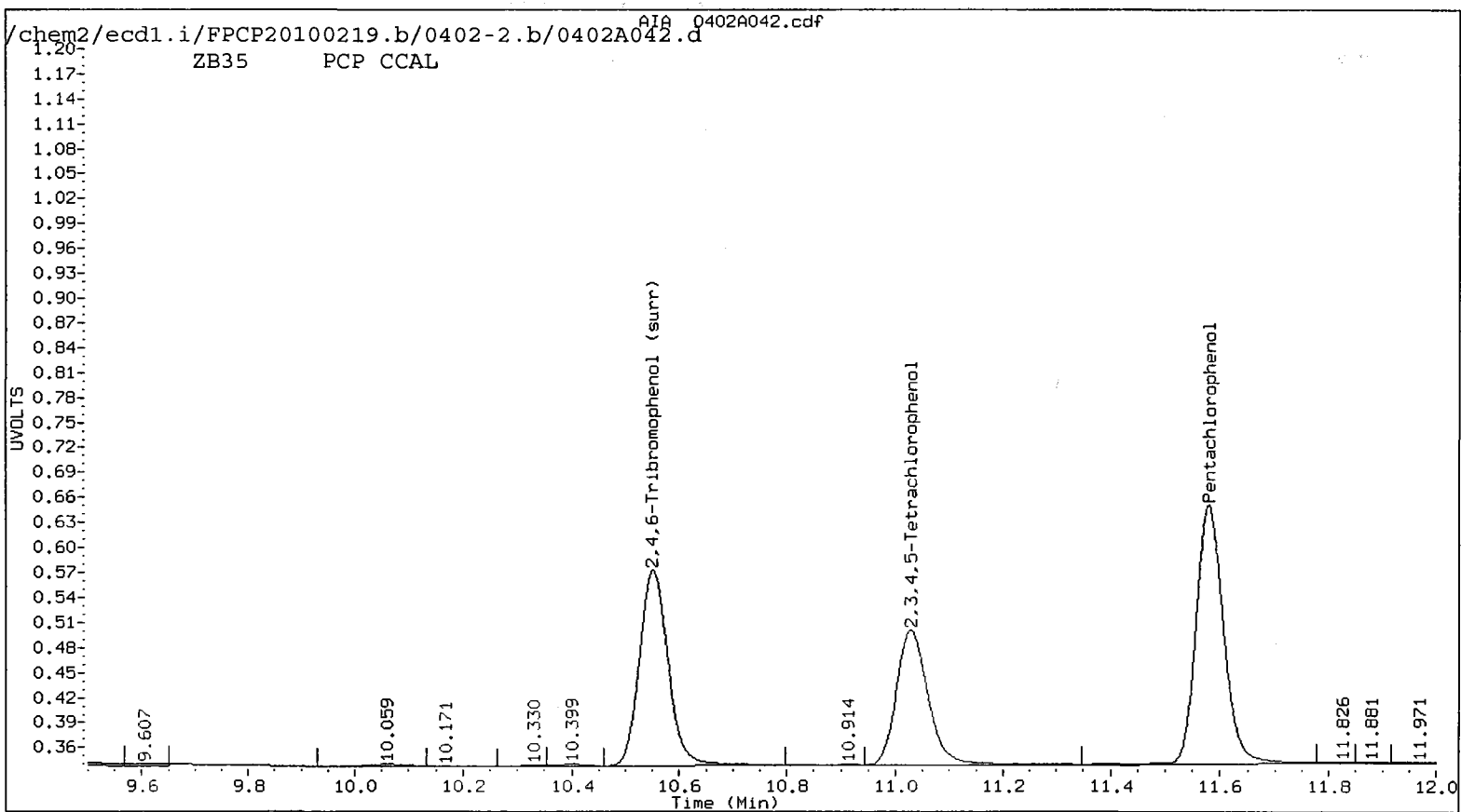
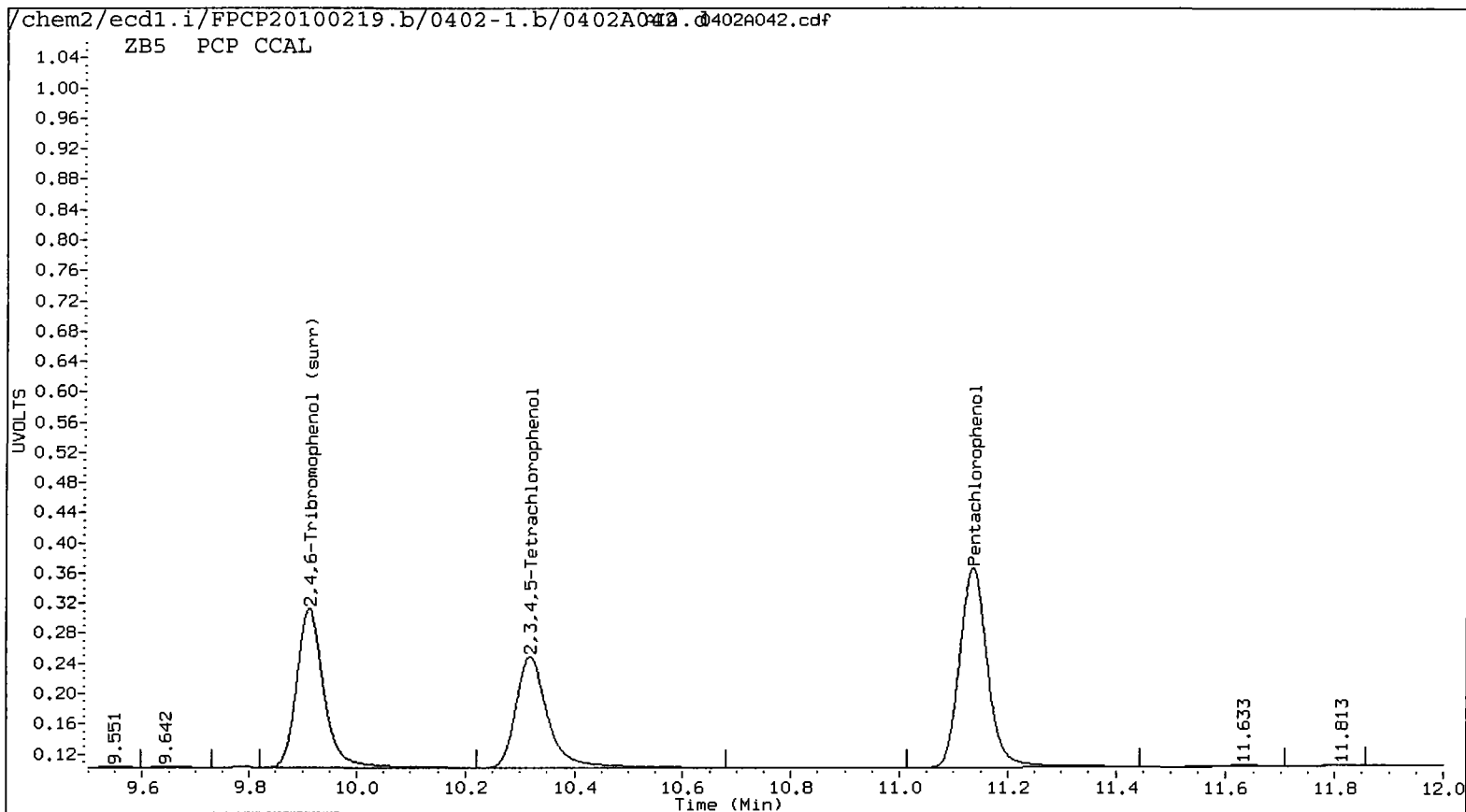
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0402-1.b/0402A042.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0402-2.b/0402A042.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 03-APR-2010 03:08
 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | | ZB35 | | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|--|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | | |
| 11.135 | 0.012 | 475903 | 11.579 | 0.003 | 546651 | 25.9912 | 26.5948 | | | 2.3 | Pentachlorophenol |
| 7.199 | 0.009 | 313634 | 7.266 | 0.004 | 304150 | 31.0377 | 26.7391 | | | 14.9 | 2,4,6-Trichlorophenol |
| 7.550 | 0.010 | 248685 | 7.792 | 0.005 | 327391 | 24.8179 | 29.0252 | | | 15.6 | 2,3,6-Trichlorophenol |
| 8.153 | 0.016 | 135887 | 8.522 | 0.003 | 154475 | 26.8478 | 26.1787 | | | 2.5 | 2,4,5-Trichlorophenol |
| 8.699 | 0.018 | 191615 | 9.282 | 0.002 | 200248 | 27.0923 | 25.6492 | | | 5.5 | 2,3,4-Trichlorophenol |
| 8.923 | 0.011 | 408200 | 9.188 | 0.004 | 436368 | 26.5938 | 25.6870 | | | 3.5 | 2,3,5,6-Tetrachlorophenol |
| 10.319 | 0.017 | 299929 | 11.029 | 0.005 | 331088 | 25.5397 | 25.3100 | | | 0.9 | 2,3,4,5-Tetrachlorophenol |
| 6.827 | 0.010 | 126038 | 7.094 | 0.004 | 150534 | 256.0007 | 266.8214 | | | 4.1 | 2,4-Dichlorophenol |
| 9.912 | 0.013 | 372365 | 10.551 | 0.005 | 435351 | 25.5 | 26.1 | | | 2.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 104.0 | 106.4 |
| 2,4,6-Trichlorophenol | 124.2 | 107.0 |
| 2,3,6-Trichlorophenol | 99.3 | 116.1 |
| 2,4,5-Trichlorophenol | 107.4 | 104.7 |
| 2,3,4-Trichlorophenol | 108.4 | 102.6 |
| 2,3,5,6-Tetrachlorophenol | 106.4 | 102.7 |
| 2,3,4,5-Tetrachlorophenol | 102.2 | 101.2 |
| 2,4-Dichlorophenol | 102.4 | 106.7 |
| 2,4,6-TBP (surr) | 102.0 | 104.2 |



PCP/Chlorophenols ANALYSIS
QC Raw Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.

QQ59 : 00287

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MB-033110
METHOD BLANK

Lab Sample ID: MB-033110
LIMS ID: 10-8214
Matrix: Water
Data Release Authorized: *MWJ*
Reported: 04/12/10

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments

Date Sampled: NA
Date Received: NA

Date Extracted: 03/31/10
Date Analyzed: 04/03/10 00:29
Instrument/Analyst: ECD1/JGR

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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 75.6% |
|----------------------|-------|

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

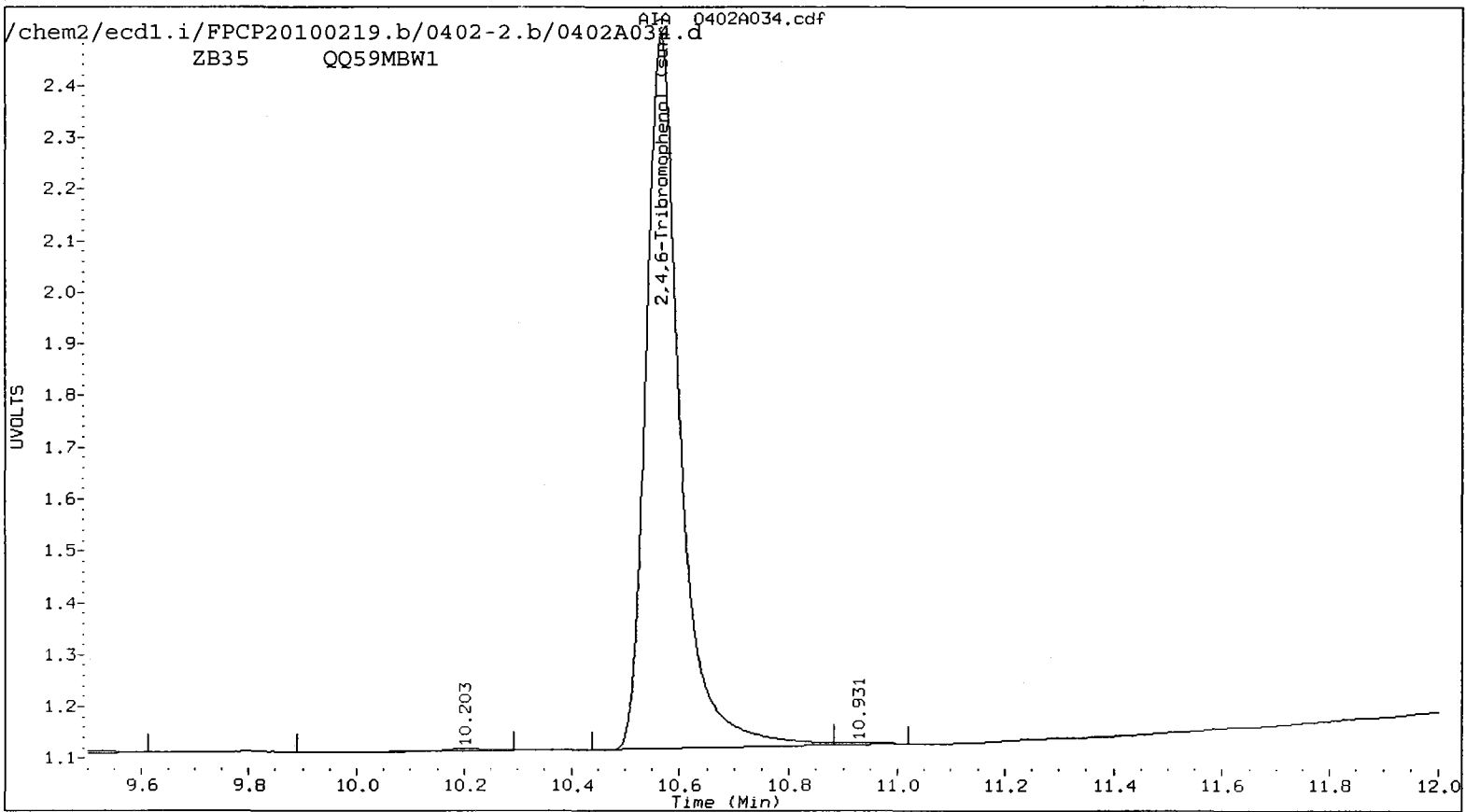
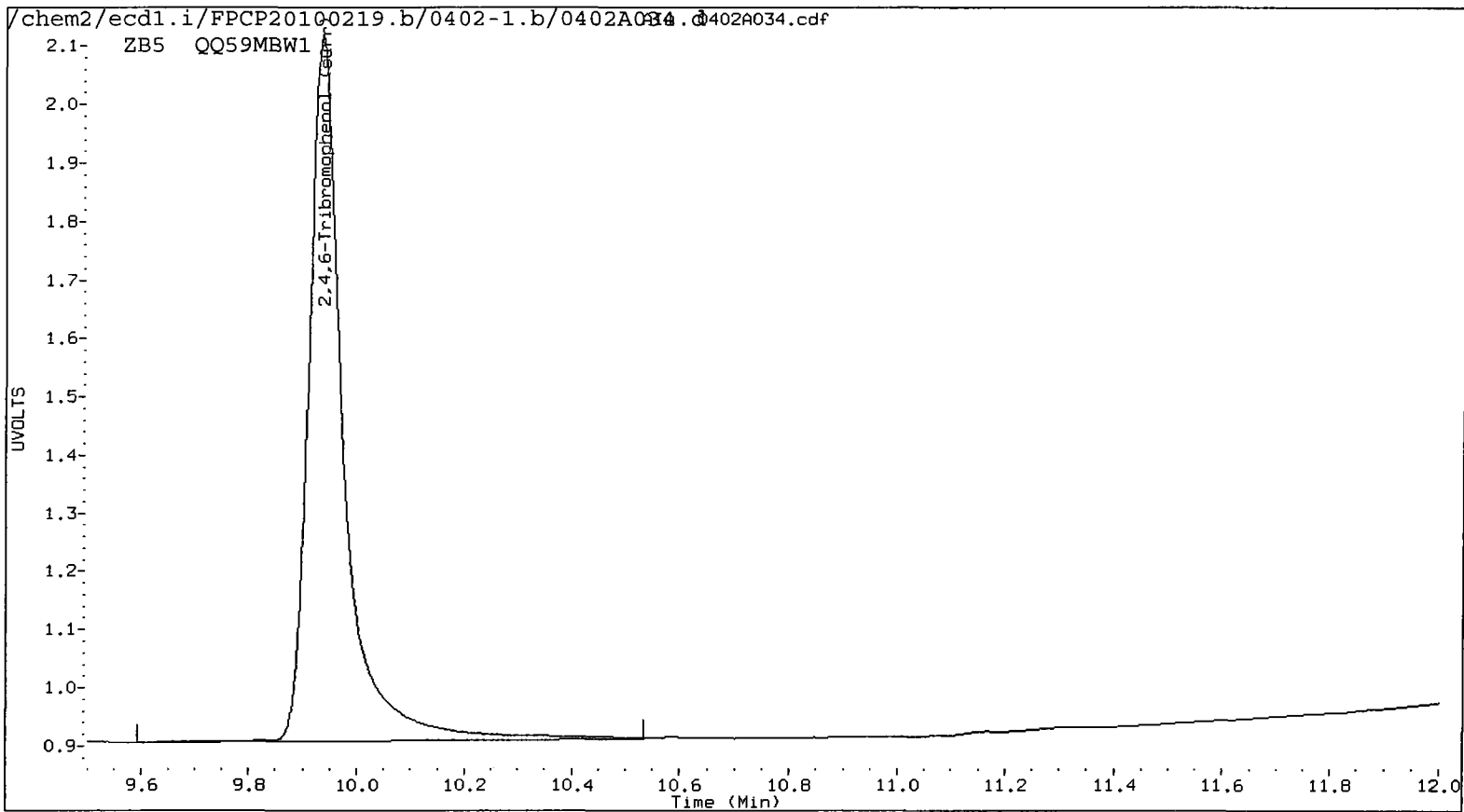
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 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|--------|--------|-----|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | Pentachlorophenol |
| 7.218 | 0.028 | 13034 | ---- | | | 1.2899 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| 8.734 | 0.054 | 31997 | ---- | | | 4.5241 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4-Dichlorophenol |
| 9.935 | 0.036 | 275244 | 10.566 | 0.020 | 299002 | 18.9 | 17.9 | 5.2 | 2,4,6-Tribromophenol (surr) |

2004/12/10

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 75.4 | 71.6 |



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

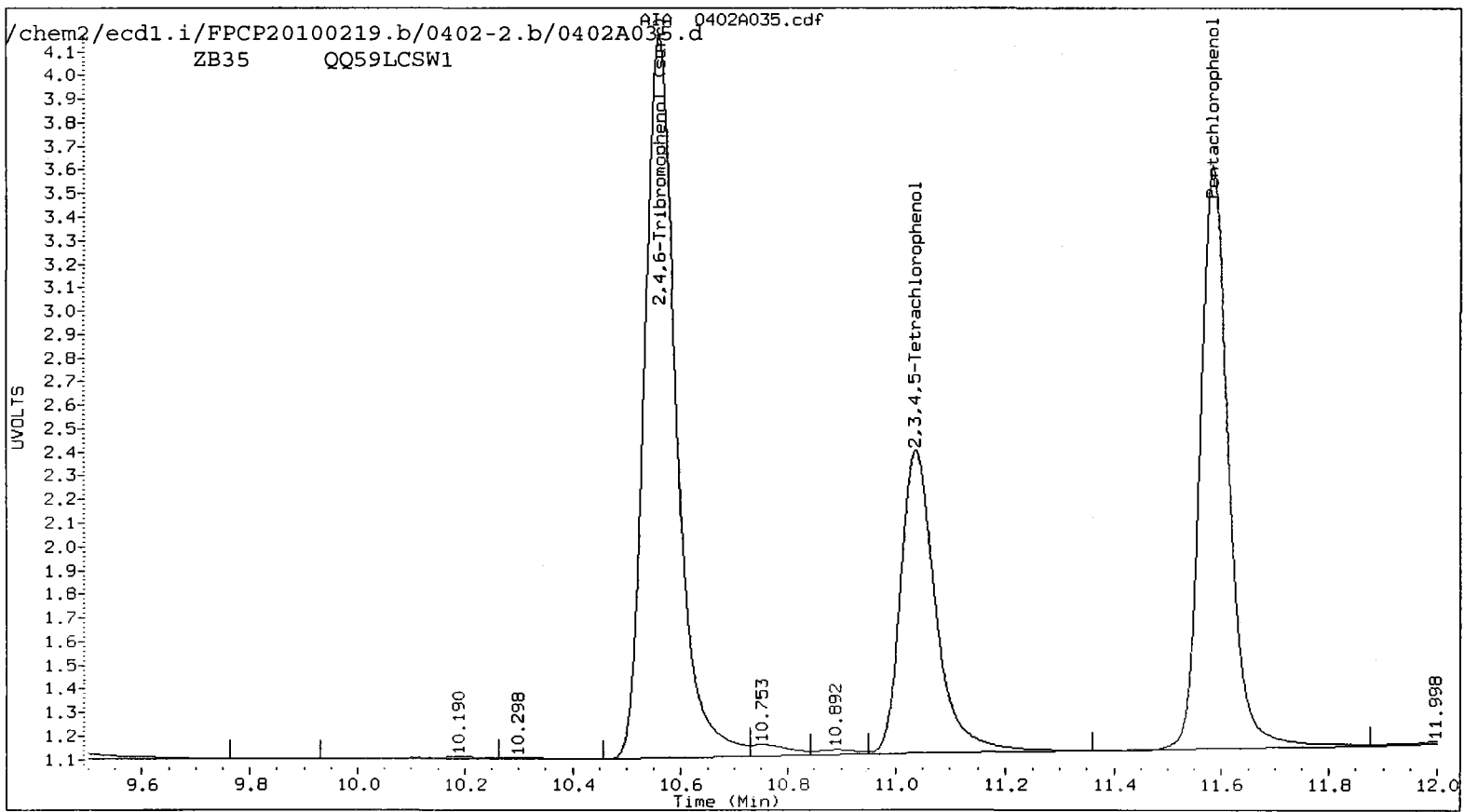
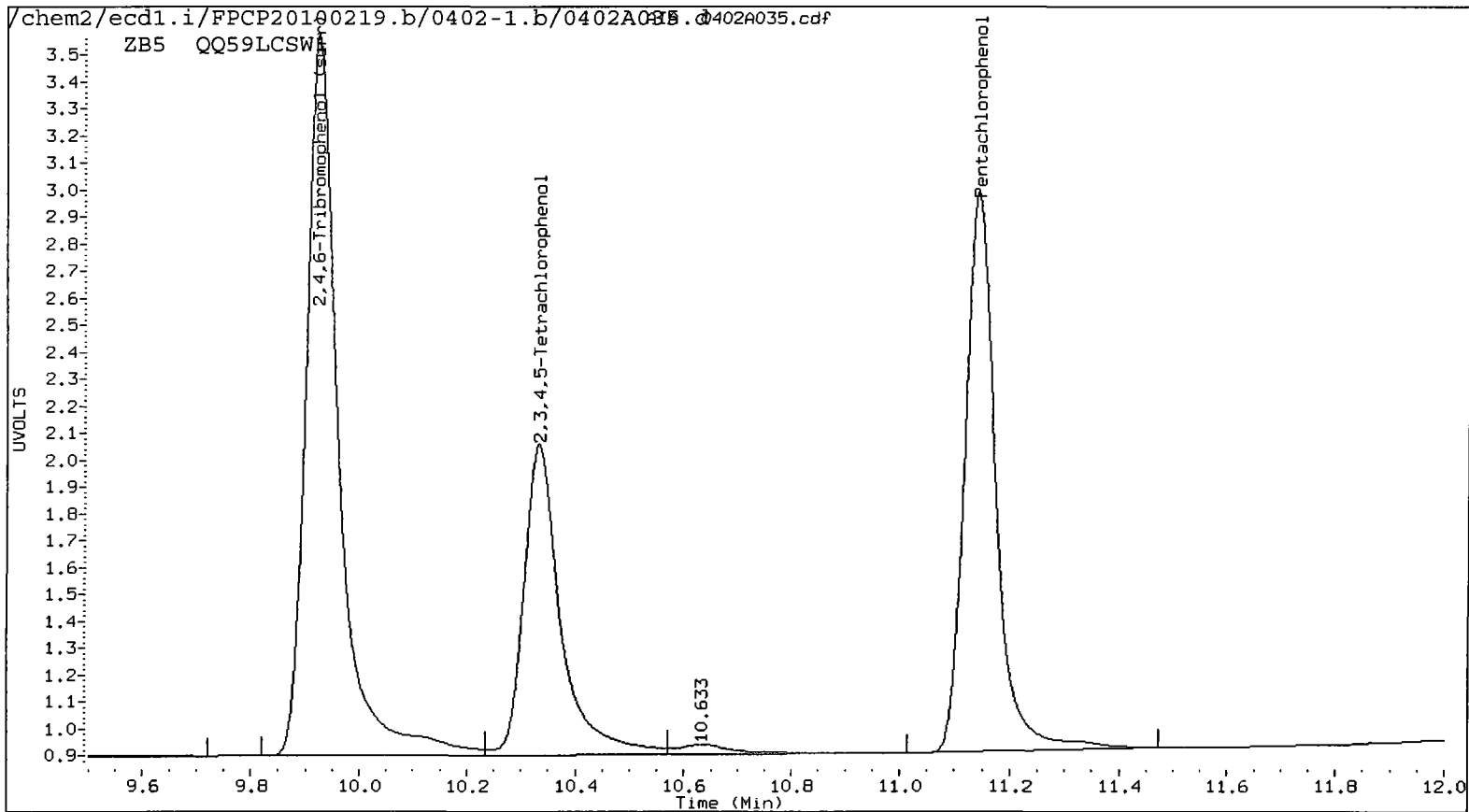
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 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0402-2.b/0402A035.d Client ID: QQ59LCSW1
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 03-APR-2010 00:49
 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|--------------------|--------------------|------|-----------------------------|
| 11.142 | 0.019 408916 | 11.585 0.009 456634 | 22.3327 | 22.2154 | 0.5 | Pentachlorophenol |
| 7.200 | 0.010 218884 | 7.268 0.006 243229 | 21.6611 | 21.3833 | 1.3 | 2,4,6-Trichlorophenol |
| 7.555 | 0.015 245450 | 7.794 0.007 237656 | 24.4950 | 21.0697 | 15.0 | 2,3,6-Trichlorophenol |
| 8.173 | 0.035 123361 | 8.534 0.014 128797 | 24.3730 | 21.8271 | 11.0 | 2,4,5-Trichlorophenol |
| 8.721 | 0.040 146477 | 9.296 0.015 171612 | 20.7103 | 21.9813 | 6.0 | 2,3,4-Trichlorophenol |
| 8.935 | 0.023 361980 | 9.195 0.011 360566 | 23.5826 | 21.2248 | 10.5 | 2,3,5,6-Tetrachlorophenol |
| 10.333 | 0.030 273978 | 11.037 0.014 288125 | 23.3299 | 22.0257 | 5.8 | 2,3,4,5-Tetrachlorophenol |
| 6.834 | 0.017 45332 | 7.099 0.009 60492 | 92.0773 | 107.2235 | 15.2 | 2,4-Dichlorophenol |
| 9.925 | 0.026 563473 | 10.559 0.013 624135 | 38.6 | 37.4 | 3.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 89.3 | 88.9 |
| 2,4,6-Trichlorophenol | 86.6 | 85.5 |
| 2,3,6-Trichlorophenol | 98.0 | 84.3 |
| 2,4,5-Trichlorophenol | 97.5 | 87.3 |
| 2,3,4-Trichlorophenol | 82.8 | 87.9 |
| 2,3,5,6-Tetrachlorophenol | 94.3 | 84.9 |
| 2,3,4,5-Tetrachlorophenol | 93.3 | 88.1 |
| 2,4-Dichlorophenol | 36.8 | 42.9 |
| 2,4,6-TBP (surr) | 77.2 | 74.7 |

04/12/10



ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1032910COMP
MATRIX SPIKE

Lab Sample ID: QQ59C
LIMS ID: 10-8214
Matrix: Water
Data Release Authorized: *mmw*
Reported: 04/12/10

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments

Date Sampled: 03/29/10
Date Received: 03/30/10

Date Extracted: 03/31/10
Date Analyzed: 04/03/10 02:09
Instrument/Analyst: ECD1/JGR

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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 69.0% |
|----------------------|-------|

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

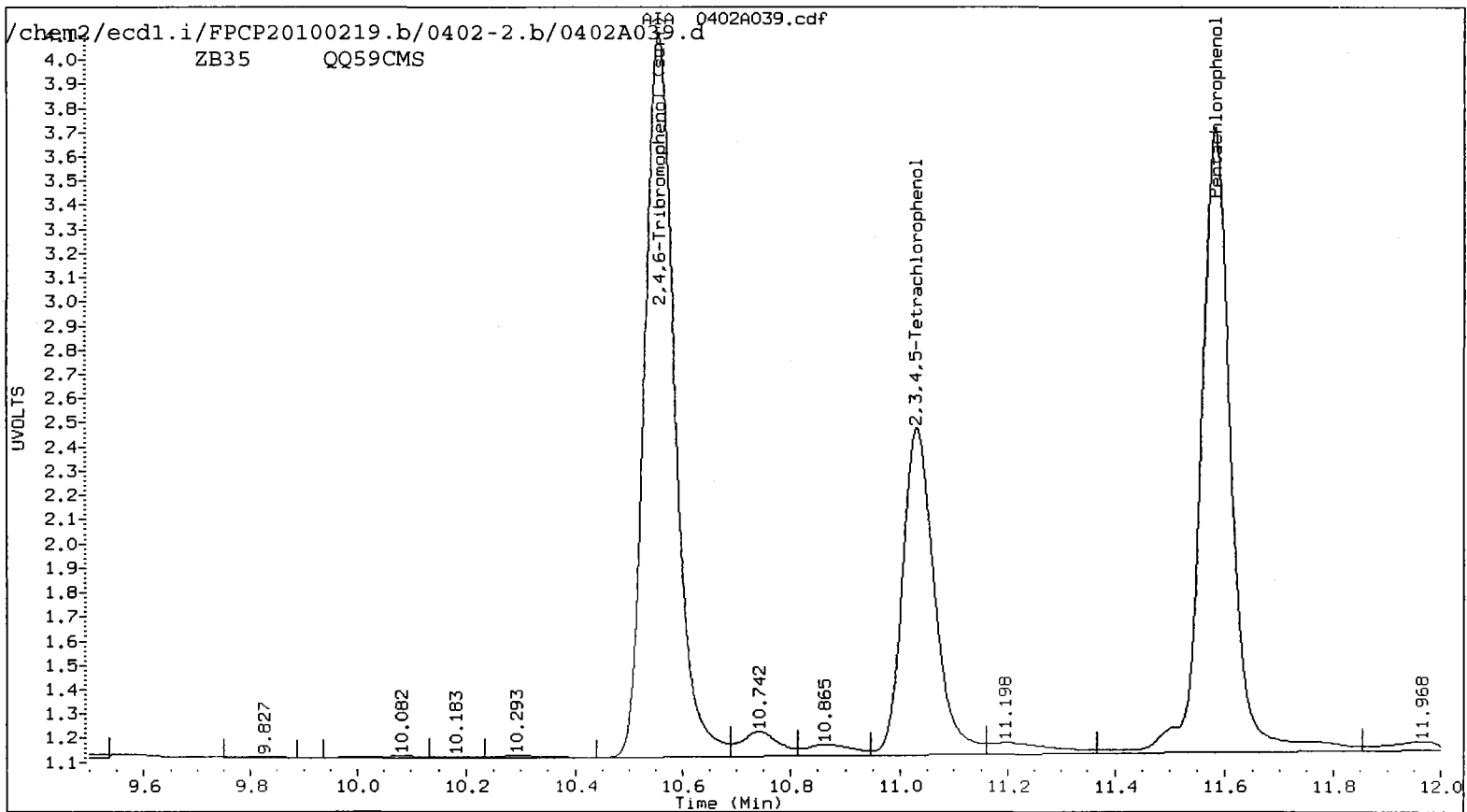
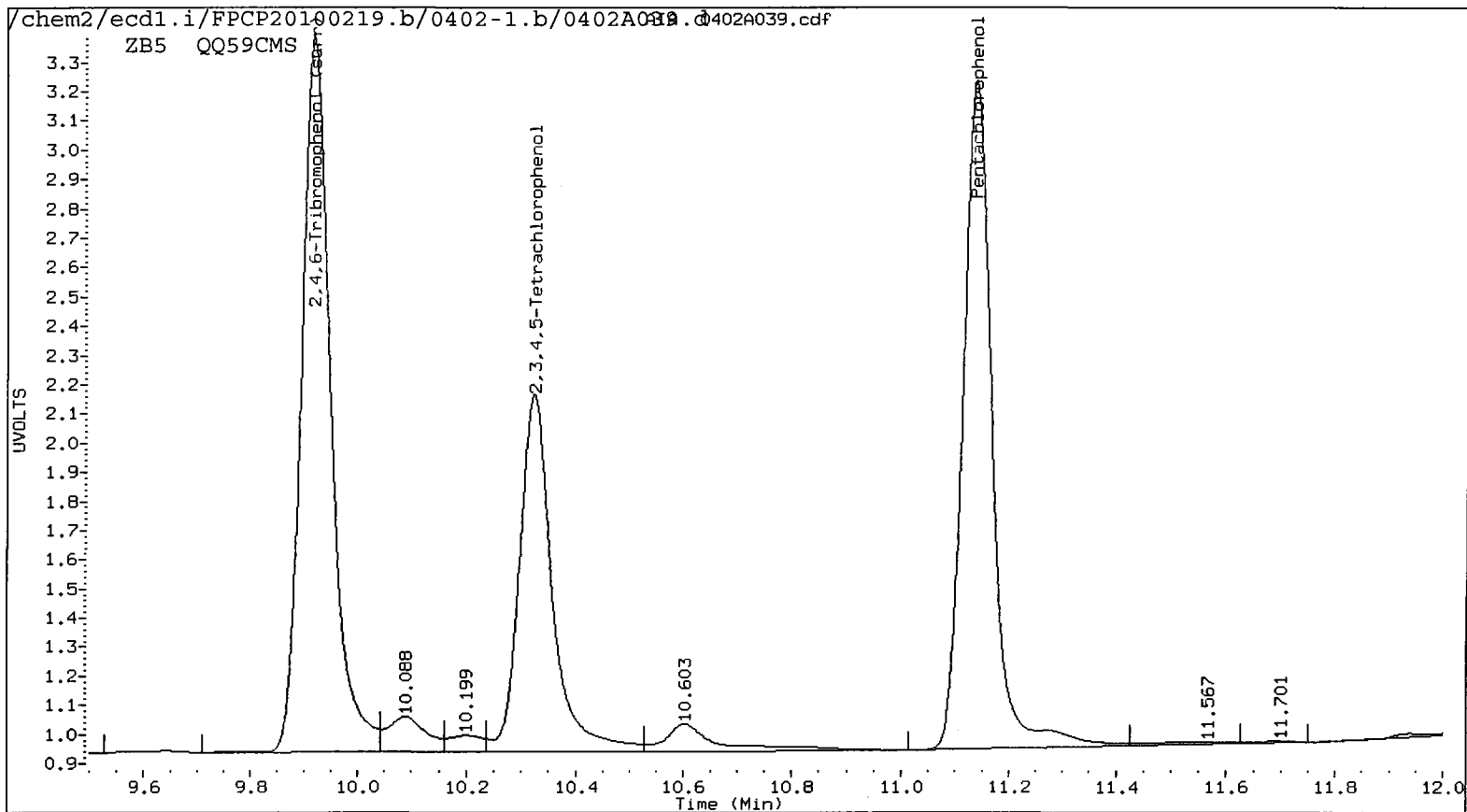
Data file 1: /chem2/ecdl.i/FPCP20100219.b/0402-1.b/0402A039.d ARI ID: QQ59CMS
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0402-2.b/0402A039.d Client ID: CB1032910COMP MS
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 03-APR-2010 02:09
 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|---------|---------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.137 | 0.014 | 431261 | 11.582 | 0.006 | 495137 | 23.5531 | 24.0885 | 2.2 | Pentachlorophenol |
| 7.200 | 0.010 | 194160 | 7.267 | 0.005 | 214515 | 19.2144 | 18.8589 | 1.9 | 2,4,6-Trichlorophenol |
| 7.555 | 0.015 | 285885 | 7.793 | 0.006 | 240514 | 28.5303 | 21.3230 | 28.9 | 2,3,6-Trichlorophenol |
| 8.166 | 0.029 | 98839 | 8.530 | 0.010 | 102953 | 19.5281 | 17.4473 | 11.3 | 2,4,5-Trichlorophenol |
| 8.711 | 0.030 | 98679 | 9.290 | 0.010 | 124007 | 13.9522 | 15.8838 | 12.9 | 2,3,4-Trichlorophenol |
| 8.930 | 0.018 | 355098 | 9.192 | 0.008 | 375215 | 23.1342 | 22.0872 | 4.6 | 2,3,5,6-Tetrachlorophenol |
| 10.322 | 0.020 | 259097 | 11.031 | 0.008 | 276190 | 22.0627 | 21.1134 | 4.4 | 2,3,4,5-Tetrachlorophenol |
| 6.834 | 0.017 | 27846 | 7.098 | 0.008 | 36600 | 56.5607 | 64.8745 | 13.7 | 2,4-Dichlorophenol |
| 9.918 | 0.019 | 468035 | 10.555 | 0.009 | 576775 | 32.1 | 34.5 | 7.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 94.2 | 96.4 |
| 2,4,6-Trichlorophenol | 76.9 | 75.4 |
| 2,3,6-Trichlorophenol | 114.1 | 85.3 |
| 2,4,5-Trichlorophenol | 78.1 | 69.8 |
| 2,3,4-Trichlorophenol | 55.8 | 63.5 |
| 2,3,5,6-Tetrachlorophenol | 92.5 | 88.3 |
| 2,3,4,5-Tetrachlorophenol | 88.3 | 84.5 |
| 2,4-Dichlorophenol | 22.6 | 25.9 |
| 2,4,6-TBP (surr) | 64.1 | 69.0 |

zc 04/12/10



ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1032910COMP
MATRIX SPIKE DUP

Lab Sample ID: QQ59C
LIMS ID: 10-8214
Matrix: Water
Data Release Authorized: *MW*
Reported: 04/12/10

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments

Date Sampled: 03/29/10
Date Received: 03/30/10

Date Extracted: 03/31/10
Date Analyzed: 04/03/10 02:29
Instrument/Analyst: ECD1/JGR

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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 64.8% |
|----------------------|-------|

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

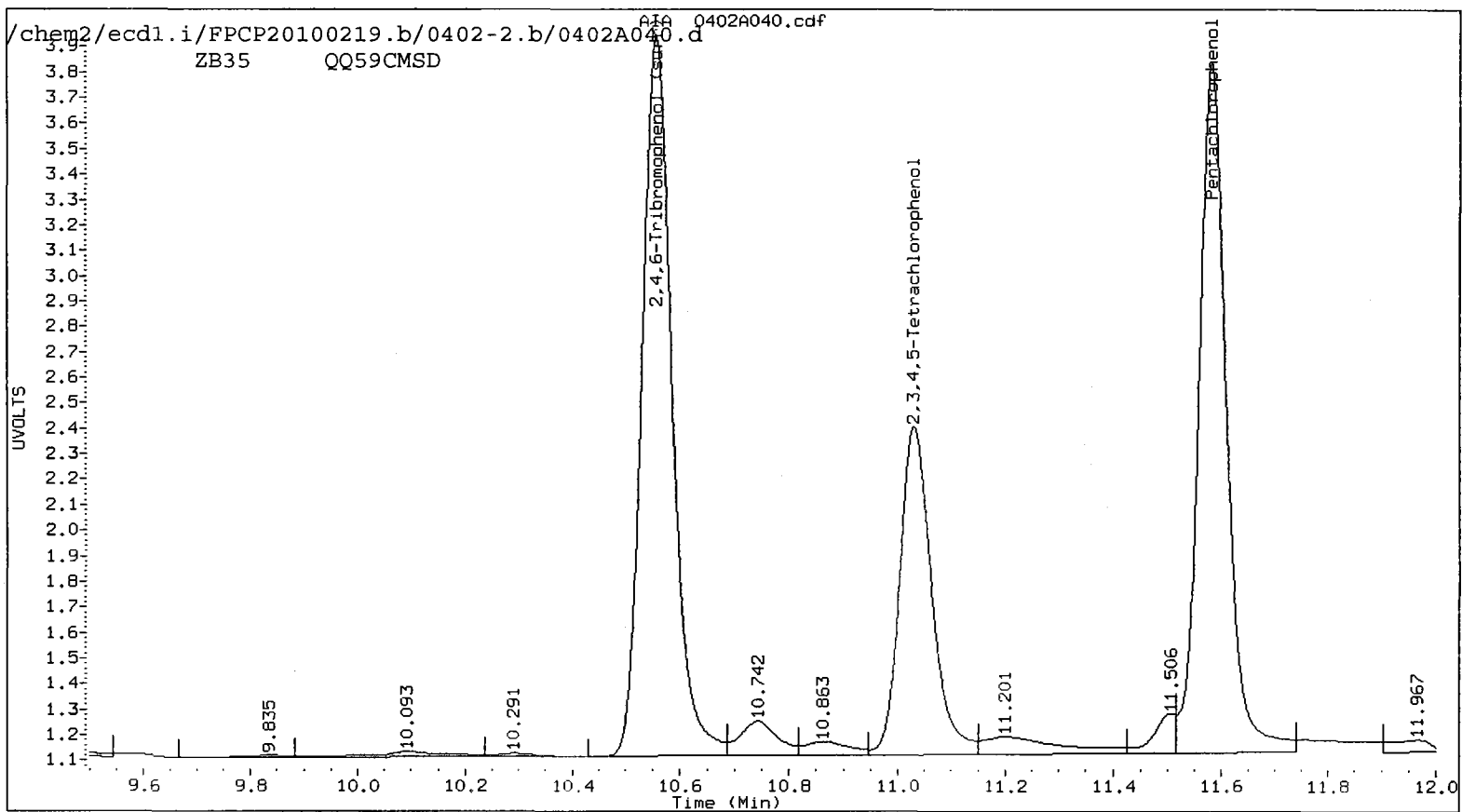
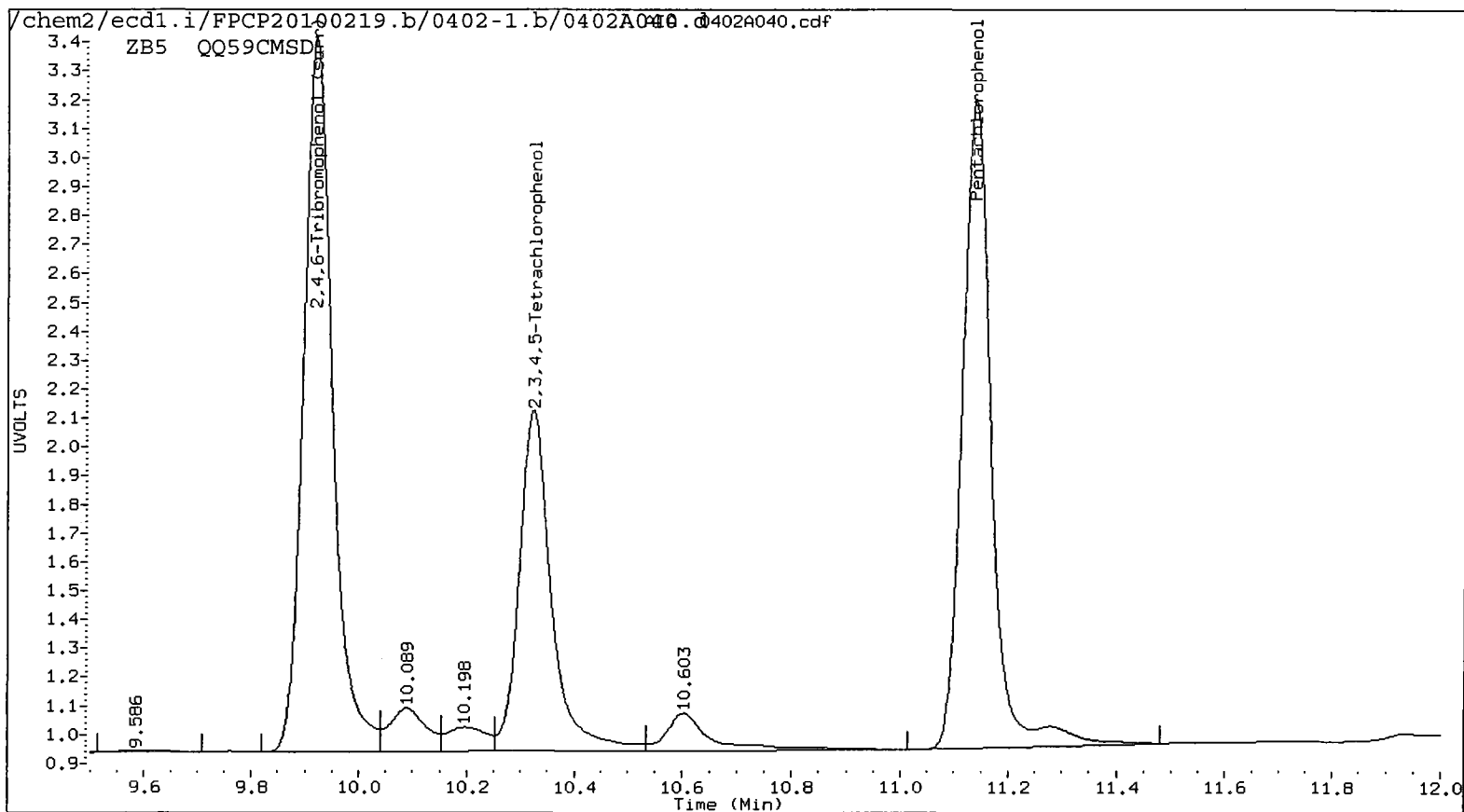
Data file 1: /chem2/ecdl.i/FPCP20100219.b/0402-1.b/0402A040.d ARI ID: QQ59CMSD
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0402-2.b/0402A040.d Client ID: CB1032910COMP MSD
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 03-APR-2010 02:29
 Compound Sublist: all Report Date: 04/12/2010 10:32
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|---------|---------|-------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.137 | 0.014 | 423234 | 11.581 | 0.005 | 491030 | 23.1147 | 23.8888 | 3.3 | Pentachlorophenol |
| 7.200 | 0.010 | 197945 | 7.268 | 0.006 | 196971 | 19.5890 | 17.3165 | 12.3 | 2,4,6-Trichlorophenol |
| 7.557 | 0.017 | 345931 | 7.793 | 0.006 | 246475 | 34.5226 | 21.8516 | 45.0* | 2,3,6-Trichlorophenol |
| 8.167 | 0.030 | 93821 | 8.531 | 0.011 | 84551 | 18.5367 | 14.3288 | 25.6 | 2,4,5-Trichlorophenol |
| 8.713 | 0.033 | 99247 | 9.291 | 0.010 | 104948 | 14.0325 | 13.4425 | 4.3 | 2,3,4-Trichlorophenol |
| 8.931 | 0.019 | 353770 | 9.192 | 0.008 | 370534 | 23.0477 | 21.8116 | 5.5 | 2,3,5,6-Tetrachlorophenol |
| 10.323 | 0.020 | 247377 | 11.030 | 0.007 | 266292 | 21.0647 | 20.3567 | 3.4 | 2,3,4,5-Tetrachlorophenol |
| 6.835 | 0.018 | 21617 | 7.099 | 0.008 | 29893 | 43.9075 | 52.9865 | 18.7 | 2,4-Dichlorophenol |
| 9.920 | 0.020 | 462712 | 10.555 | 0.009 | 541959 | 31.7 | 32.4 | 2.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 92.5 | 95.6 |
| 2,4,6-Trichlorophenol | 78.4 | 69.3 |
| 2,3,6-Trichlorophenol | 138.1 | 87.4 |
| 2,4,5-Trichlorophenol | 74.1 | 57.3 |
| 2,3,4-Trichlorophenol | 56.1 | 53.8 |
| 2,3,5,6-Tetrachlorophenol | 92.2 | 87.2 |
| 2,3,4,5-Tetrachlorophenol | 84.3 | 81.4 |
| 2,4-Dichlorophenol | 17.6 | 21.2 |
| 2,4,6-TBP (surr) | 63.4 | 64.9 |

Handwritten signature and date: J 04/12/10



PCP/Chlorophenols ANALYSIS
Extraction Bench Sheets/Run Logs

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.



GC Analyst Notes / Corrective Action Log

ARI Project ID: penta chloro phenol Client ID: _____

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): PCP (pentachlorophenol) 2,4,6-Tribromophenol

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 02/18/10 Analysis Start: 02/18/10

| | | | |
|-----------------------------------|----------------------|--------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / <u>NA</u> | Method Blank In Control? | YES / NO <u>NO</u> |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | YES / NO <u>NO</u> |
| CCal Meets RF & %RSD Criteria | <u>YES</u> / NO | Surrogate Recovery In Control? | <u>YES</u> / NO |
| Internal Standard Meets Criteria? | YES / NO / <u>NA</u> | Special Analysis Criteria Met? | YES / NO / <u>NA</u> |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 02/19/10

Reviewer's Signature: [Signature] Date: 2/19/10



GC Analyst Notes / Corrective Action Log

ARI Project ID: QQ59 Client ID: Lora Lake apts.

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Chlorinated Phenols, Method 8041, SOP 412S

| | | | | | | |
|-------------|---|--------|--------|--------|-------|-------|
| Instrument: | FID-3A | FID-3B | FID-4A | FID-4B | FID-7 | FID-8 |
| | <input checked="" type="checkbox"/> ECD-1 | ECD-3 | ECD-4 | ECD-5 | ECD-6 | ECD-7 |

Dates: Curve: 02/19/10 Analysis Start: 04/02/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO / NA

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO / NA ^①

CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

① - The surrogate spiking volume is doubled when entering into LIMS, in the LCS/LCSD/MS&MSD; this is because the spike also contains surrogate and when both are spiked the concentration is double what it would be when only the surrogate is spiked.

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 04/12/10

Reviewer's Signature: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 2/18/2010 Analysis: Herb/PCP Analyst: JR #AR

GC Program: HERB.M # Column No: 150608/148416 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): PCPFAST.M EM Voltage: NA

Calibration File: FPCP20100219.6 #HERB200 0218.5 Curve Date: 2/18/2010

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|-----------|---------|
| | 1659-1 | 1353-2 |
| | 1663-2 | 1324-1 |
| | | 1702-3 |

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/PCP20100218.b/ical-2.1

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|------|----------------|-----------|
| 1 | 18-FEB-2010 14:52 | 0218A002.d | 1 | PCPD | |
| 2 | 18-FEB-2010 15:28 | 0218A003.d | 1 | PCPA | |
| 3 | 18-FEB-2010 16:04 | 0218A004.d | 1 | PCPB | |
| 4 | 18-FEB-2010 16:40 | 0218A005.d | 1 | PCPC | |
| 5 | 18-FEB-2010 17:17 | 0218A006.d | 1 | PCPE | |
| 6 | 18-FEB-2010 17:53 | 0218A007.d | 1 | PCPF | |
| 7 | 18-FEB-2010 18:29 | 0218A008.d | 1 | PCP ICV 1324-1 | |
| 8 | 18-FEB-2010 19:05 | 0218A009.d | 1 | PCP ICV 1702-3 | |
| 9 | 18-FEB-2010 19:41 | 0218A010.d | 1 | DRVBLK 021810 | |
| 10 | 18-FEB-2010 20:17 | 0218A011.d | 1 | PCPD | |
| 11 | 18-FEB-2010 20:37 | 0218A012.d | 1 | PCPA | |
| 12 | 18-FEB-2010 20:57 | 0218A013.d | 1 | PCPB | |
| 13 | 18-FEB-2010 21:17 | 0218A014.d | 1 | PCPC | |
| 14 | 18-FEB-2010 21:37 | 0218A015.d | 1 | PCPE | |
| 15 | 18-FEB-2010 21:56 | 0218A016.d | 1 | PCPF | |
| 16 | 18-FEB-2010 22:16 | 0218A017.d | 1 | PCP ICV 1324-1 | |
| 17 | 18-FEB-2010 22:36 | 0218A018.d | 1 | PCP ICV 1702-3 | |
| 18 | 18-FEB-2010 22:56 | 0218A019.d | 1 | DRVBLK 021810 | |
| 19 | 18-FEB-2010 23:16 | 0218A020.d | 1 | PCP CCAL | |
| 20 | 18-FEB-2010 23:35 | 0218A021.d | 1 | QJ18MBW1 | QJ18MBW1 |
| 21 | 18-FEB-2010 23:55 | 0218A022.d | 1 | QJ18LCSW1 | QJ18LCSW1 |
| 22 | 19-FEB-2010 00:15 | 0218A023.d | 1000 | QJ18A | SW 13# |
| 23 | 19-FEB-2010 00:35 | 0218A024.d | 1 | QJ18B | SW 2# |
| 24 | 19-FEB-2010 00:55 | 0218A025.d | 50 | QJ18C | SW 15# |
| 25 | 19-FEB-2010 01:15 | 0218A026.d | 1 | PCP | |
| 26 | 19-FEB-2010 01:34 | 0218A027.d | 1 | PCP CCAL | |
| 27 | 19-FEB-2010 01:54 | 0218A028.d | 1 | QJ36MBW1 | QJ36MBW1 |
| 28 | 19-FEB-2010 02:14 | 0218A029.d | 1 | QJ36LCSW1 | QJ36LCSW1 |
| 29 | 19-FEB-2010 02:34 | 0218A030.d | 1 | QJ36LCSW1 | QJ36LCSW1 |
| 30 | 19-FEB-2010 02:54 | 0218A031.d | 1 | QJ36A | MW-2 |
| 31 | 19-FEB-2010 03:13 | 0218A032.d | 1 | QJ36B | MW-3 |
| 32 | 19-FEB-2010 03:33 | 0218A033.d | 10 | QJ36C | MW-15 |
| 33 | 19-FEB-2010 03:53 | 0218A034.d | 1 | QJ36D | MW-16 |
| 34 | 19-FEB-2010 04:13 | 0218A035.d | 1 | QJ36E | MW-17 |
| 35 | 19-FEB-2010 04:33 | 0218A036.d | 1 | QJ36F | MW-18 |
| 36 | 19-FEB-2010 04:52 | 0218A037.d | 1 | QJ36G | MW-22 |
| 37 | 19-FEB-2010 05:12 | 0218A038.d | 1 | PCP | |
| 38 | 19-FEB-2010 05:32 | 0218A039.d | 1 | PCP CCAL | |
| 39 | 19-FEB-2010 05:52 | 0218A040.d | 40 | QJ36H | MW-23 |
| 40 | 19-FEB-2010 06:12 | 0218A041.d | 1 | QJ36I | MW-24 |
| 41 | 19-FEB-2010 06:32 | 0218A042.d | 10 | QJ36J | MW-25 |
| 42 | 19-FEB-2010 06:51 | 0218A043.d | 1 | QJ36K | MW-26 |
| 43 | 19-FEB-2010 07:11 | 0218A044.d | 1 | QJ36L | MW-27 |
| 44 | 19-FEB-2010 07:31 | 0218A045.d | 1 | QJ36M | MW-28 |
| 45 | 19-FEB-2010 07:51 | 0218A046.d | 1 | QJ36N | MW-29 |
| 46 | 19-FEB-2010 08:11 | 0218A047.d | 1 | QJ36O | MW-30 |
| 47 | 19-FEB-2010 08:30 | 0218A048.d | 1 | QJ36P | MW-31 |
| 48 | 19-FEB-2010 08:50 | 0218A049.d | 200 | QJ36Q | MW-32 |
| 49 | 19-FEB-2010 09:10 | 0218A050.d | 1 | PCP | |
| 50 | 19-FEB-2010 09:30 | 0218A051.d | 1 | PCP CCAL | |

AR 2/23/2010

Maintenance / Comments

Cleaned inlet, cleaned liner & clipped loop from pre-column

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.

QQ59: 00303A

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 2/18/2010 cont Analysis: PCP/Herb Analyst: JR/AR

GC Program: HERB.M # Column No: 150608/148146 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): PCFFAST.M EM Voltage: NA

Calibration File: FPCP20100219.b, PCP20100215.b # Curve Date: 2/18/2010

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|-----------|---------|
| | 1659-1 | 1353-2 |
| | 1663-2 | 1324-1 |
| | | 1702-3 |

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100219.b/0218-2.t

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|-----|----------------|----------------|
| 51 | 19-FEB-2010 09:50 | 0218A052.d | 1 | QJ36R | MW-33 |
| 52 | 19-FEB-2010 10:10 | 0218A053.d | 1 | QJ36S | MW-34 |
| 53 | 19-FEB-2010 10:30 | 0218A054.d | 1 | QJ36T | MW-35 |
| 54 | 19-FEB-2010 10:49 | 0218A055.d | 1 | PCP | |
| 55 | 19-FEB-2010 11:09 | 0218A056.d | 1 | PCP CCAL | |
| 56 | 19-FEB-2010 11:29 | 0218A057.d | 1 | PCP ICV 1702-3 | |
| 57 | 19-FEB-2010 12:38 | 0218A058.d | 1 | PCP ICV 1702-3 | |
| 58 | 19-FEB-2010 12:58 | 0218A059.d | 1 | QJ38MBW1 | QJ38MBW1 |
| 59 | 19-FEB-2010 13:18 | 0218A060.d | 1 | QJ38LCSW1 | QJ38LCSW1 |
| 60 | 19-FEB-2010 13:38 | 0218A061.d | 1 | QJ38LCSW1 | QJ38LCSW1 |
| 61 | 19-FEB-2010 13:57 | 0218A062.d | 4 | QJ38A | MW-36 |
| 62 | 19-FEB-2010 14:18 | 0218A063.d | 100 | QJ38B | MW-37 |
| 63 | 19-FEB-2010 14:37 | 0218A064.d | 1 | QJ38C | HCMW-7 |
| 64 | 19-FEB-2010 14:57 | 0218A065.d | 40 | QJ38D | BXS-1 |
| 65 | 19-FEB-2010 15:17 | 0218A066.d | 1 | QJ38E | BXS-2 |
| 66 | 19-FEB-2010 15:37 | 0218A067.d | 1 | PCP | |
| 67 | 19-FEB-2010 15:57 | 0218A068.d | 1 | PCP CCAL | |
| 68 | 19-FEB-2010 16:17 | 0218A069.d | 40 | QJ36H | MW-23 |
| 69 | 19-FEB-2010 16:37 | 0218A070.d | 1 | QJ36I | MW-24 |
| 70 | 19-FEB-2010 16:57 | 0218A071.d | 10 | QJ36J | MW-25 |
| 71 | 19-FEB-2010 17:17 | 0218A072.d | 1 | QJ36K | MW-26 |
| 72 | 19-FEB-2010 17:37 | 0218A073.d | 1 | QJ36L | MW-27 |
| 73 | 19-FEB-2010 17:57 | 0218A074.d | 1 | QJ36M | MW-28 |
| 74 | 19-FEB-2010 18:17 | 0218A075.d | 1 | QJ36N | MW-29 |
| 75 | 19-FEB-2010 18:37 | 0218A076.d | 1 | QJ36O | MW-30 |
| 76 | 19-FEB-2010 18:57 | 0218A077.d | 1 | QJ36P | MW-31 |
| 77 | 19-FEB-2010 19:17 | 0218A078.d | 200 | QJ36Q | MW-32 |
| 78 | 19-FEB-2010 19:36 | 0218A079.d | 1 | QJ36R | MW-33 |
| 79 | 19-FEB-2010 19:56 | 0218A080.d | 1 | QJ36S | MW-34 |
| 80 | 19-FEB-2010 20:16 | 0218A081.d | 1 | QJ36T | MW-35 |
| 81 | 19-FEB-2010 20:36 | 0218A082.d | 1 | PCP CCAL | |
| 82 | 19-FEB-2010 20:56 | 0218A083.d | 1 | HERB D | |
| 83 | 19-FEB-2010 21:32 | 0218A084.d | 1 | HERB A | |
| 84 | 19-FEB-2010 22:08 | 0218A085.d | 1 | HERB B | |
| 85 | 19-FEB-2010 22:44 | 0218A086.d | 1 | HERB C | |
| 86 | 19-FEB-2010 23:20 | 0218A087.d | 1 | HERB E | |
| 87 | 19-FEB-2010 23:56 | 0218A088.d | 1 | HERB F | |
| 88 | 20-FEB-2010 00:32 | 0218A089.d | 1 | HERB ICV | |
| 89 | 20-FEB-2010 01:08 | 0218A090.d | 1 | HERB CCAL | |
| 90 | 20-FEB-2010 01:44 | 0218A091.d | 1 | QJ79MBW1 | QJ79MBW1 |
| 91 | 20-FEB-2010 02:20 | 0218A092.d | 1 | QJ79LCSW1 | QJ79LCSW1 |
| 92 | 20-FEB-2010 02:56 | 0218A093.d | 1 | QJ79B | 6057021110COMP |
| 93 | 20-FEB-2010 03:32 | 0218A094.d | 1 | QJ88C | R1 |
| 94 | 20-FEB-2010 04:08 | 0218A095.d | 1 | QJ88D | C1 |
| 95 | 20-FEB-2010 04:44 | 0218A096.d | 1 | HERB | |
| 96 | 20-FEB-2010 05:20 | 0218A097.d | 1 | HERB CCAL | |
| 97 | 20-FEB-2010 05:56 | 0218A098.d | 1 | DRVBLK 021910 | |

AR 2/23/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period

QQ59.00303B1

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 4/2/2010

Analysis: Herb/PCP

Analyst: JR

GC Program: HERB.M #

Column No: 150608/148146

Column Type: ZBS/2B3S

Instrument Tune (.U or .CT.): PCPFAST.M

EM Voltage: NA

Calibration File: HERB20100218 & PCP20100219

Curve Date: 2/18/2010

| IS/SS | Ical/Ccal | AR | LCS/ICV AR |
|-------|---------------|---------------|---------------|
| | <u>1659-1</u> | <u>6/4/10</u> | <u>1702-3</u> |
| | <u>1663-2</u> | | <u>1353-2</u> |

GC LOG SOFTWARE FOR DATABASE - /CHEM2/ECD1.1/HERB2

| Inject | Date/Time | Filename | DF | LabID |
|--------|-------------------|------------|----|-----------|
| 1 | 02-APR-2010 08:07 | 0402A001.d | 1 | RINSE |
| 2 | 02-APR-2010 08:43 | 0402A002.d | 1 | RINSE |
| 3 | 02-APR-2010 09:19 | 0402A003.d | 1 | HERB CCAL |
| 4 | 02-APR-2010 09:55 | 0402A004.d | 1 | QP45MBW1 |
| 5 | 02-APR-2010 10:31 | 0402A005.d | 1 | QP45LCSW1 |
| 6 | 02-APR-2010 11:08 | 0402A006.d | 1 | QP45B |
| 7 | 02-APR-2010 11:44 | 0402A007.d | 1 | QP45BMS |
| 8 | 02-APR-2010 12:20 | 0402A008.d | 1 | HERB CCAL |
| 9 | 02-APR-2010 12:56 | 0402A009.d | 1 | HERB CCAL |
| 10 | 02-APR-2010 13:33 | 0402A010.d | 1 | DIR BLK |
| 11 | 02-APR-2010 14:09 | 0402A011.d | 1 | QP84MBW1 |
| 12 | 02-APR-2010 14:45 | 0402A012.d | 1 | QP84LCSW1 |
| 13 | 02-APR-2010 15:21 | 0402A013.d | 1 | QP84LCSW1 |
| 14 | 02-APR-2010 15:57 | 0402A014.d | 1 | QP84B |
| 15 | 02-APR-2010 16:34 | 0402A015.d | 1 | QP95D |
| 16 | 02-APR-2010 17:10 | 0402A016.d | 1 | QP95E |
| 17 | 02-APR-2010 17:46 | 0402A017.d | 1 | QP95F |
| 18 | 02-APR-2010 18:22 | 0402A018.d | 1 | QQ25B |
| 19 | 02-APR-2010 18:58 | 0402A019.d | 1 | HERB CCAL |
| 20 | 02-APR-2010 19:35 | 0402A020.d | 1 | HERB CCAL |
| 21 | 02-APR-2010 20:11 | 0402A021.d | 1 | DIR BLK |
| 22 | 02-APR-2010 20:31 | 0402A022.d | 1 | PCP CCAL |
| 23 | 02-APR-2010 20:51 | 0402A023.d | 1 | PCP CCAL |
| 24 | 02-APR-2010 21:11 | 0402A024.d | 1 | QQ20MBW1 |
| 25 | 02-APR-2010 21:30 | 0402A025.d | 1 | QQ20LCSW1 |
| 26 | 02-APR-2010 21:50 | 0402A026.d | 1 | QQ20A |
| 27 | 02-APR-2010 22:10 | 0402A027.d | 1 | QQ20AMS |
| 28 | 02-APR-2010 22:30 | 0402A028.d | 1 | QQ20AMSD |
| 29 | 02-APR-2010 22:50 | 0402A029.d | 1 | QQ20B |
| 30 | 03-APR-2010 23:10 | 0402A030.d | 1 | QQ20C |
| 31 | 03-APR-2010 23:30 | 0402A031.d | 1 | QQ20D |
| 32 | 03-APR-2010 23:50 | 0402A032.d | 1 | PCP CCAL |
| 33 | 03-APR-2010 00:10 | 0402A033.d | 1 | PCP CCAL |
| 34 | 03-APR-2010 00:29 | 0402A034.d | 1 | QQ59MBW1 |
| 35 | 03-APR-2010 00:49 | 0402A035.d | 1 | QQ59LCSW1 |
| 36 | 03-APR-2010 01:09 | 0402A036.d | 1 | QQ59A |
| 37 | 03-APR-2010 01:29 | 0402A037.d | 1 | QQ59B |
| 38 | 03-APR-2010 01:49 | 0402A038.d | 1 | QQ59C |
| 39 | 03-APR-2010 02:09 | 0402A039.d | 1 | QQ59CMS |
| 40 | 03-APR-2010 02:29 | 0402A040.d | 1 | QQ59CMSD |
| 41 | 03-APR-2010 02:48 | 0402A041.d | 1 | QQ59D |
| 42 | 03-APR-2010 03:08 | 0402A042.d | 1 | PCP CCAL |
| 43 | 03-APR-2010 03:28 | 0402A043.d | 1 | PCP CCAL |

Maintenance / Comments

AR 4/14/2010

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.

QQ59:00303Cr
& h/w/m

Metals Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

SDG: QQ59

| CLIENT ID | ARI ID | ARI LIMS ID | REPREP |
|------------------|------------|-------------|--------|
| CB31A032910COMP | QQ59A | 10-8212 | |
| PBW | QQ59MB1 | 10-8212 | |
| LCSW | QQ59MB1SPK | 10-8212 | |
| CB4857032910COMP | QQ59B | 10-8213 | |
| CB1032910COMP | QQ59C | 10-8214 | |
| CB1032910COMP | QQ59CDUP | 10-8214 | |
| CB1032910COMPS | QQ59CSPK | 10-8214 | |
| CB100032910COMP | QQ59D | 10-8215 | |
| CB31A032910COMP | QQ59E | 10-8216 | |
| PBW | QQ59MB2 | 10-8216 | |
| LCSW | QQ59MB2SPK | 10-8216 | |
| CB4857032910COMP | QQ59F | 10-8217 | |
| CB1032910COMP | QQ59G | 10-8218 | |
| CB1032910COMP | QQ59GDUP | 10-8218 | |
| CB1032910COMPS | QQ59GSPK | 10-8218 | |
| CB100032910COMP | QQ59H | 10-8219 | |

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: Jay Kuhn

Name: Jay Kuhn

Date: 4/21/10

Title: Inorganics Director

COVER PAGE

QQ59 : 00305

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: CB1032910COMP
 DUPLICATE

Lab Sample ID: QQ59C
 LIMS ID: 10-8214
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: 03/29/10
 Date Received: 03/30/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|------|---------------|---|
| Arsenic | 200.8 | 0.5 U | 0.5 U | 0.0% | +/- 0.5 | L |

Reported in µg/L

*-Control Limit Not Met
 L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: CB1032910COMP
MATRIX SPIKE

Lab Sample ID: QQ59C
 LIMS ID: 10-8214
 Matrix: Water
 Data Release Authorized: *ML*
 Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: 03/29/10
 Date Received: 03/30/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|---------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.500 U | 25.3 | 25.0 | 101% | |

Reported in µg/L

N-Control Limit Not Met
 H-% Recovery Not Applicable, Sample Concentration Too High
 NA-Not Applicable, Analyte Not Spiked
 NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK


Lab Sample ID: QQ59MB

QC Report No: QQ59-Floyd/Snider

LIMS ID: 10-8212

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/20/10


Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QQ59LCS
 LIMS ID: 10-8212
 Matrix: Water
 Data Release Authorized: 
 Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: NA
 Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

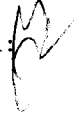
| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|-----------------|-------------|-------------|------------|---|
| Arsenic | 200.8 | 24.9 | 25.0 | 99.6% | |

Reported in µg/L

N-Control limit not met
 Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1032910COMP
DUPLICATE

Lab Sample ID: QQ59G
LIMS ID: 10-8218
Matrix: Water
Data Release Authorized: 
Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: 03/29/10
Date Received: 03/30/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|------|---------------|---|
| Arsenic | 200.8 | 0.5 U | 0.5 U | 0.0% | +/- 0.5 | L |

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: CB1032910COMP
MATRIX SPIKE

Lab Sample ID: QQ59G

LIMS ID: 10-8218

Matrix: Water

Data Release Authorized: 

Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider

Project: Lora Lakes Apartments

Date Sampled: 03/29/10

Date Received: 03/30/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|---------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.500 U | 22.9 | 25.0 | 91.6% | |

Reported in µg/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: METHOD BLANK

Lab Sample ID: QQ59MB
LIMS ID: 10-8216
Matrix: Water
Data Release Authorized 
Reported: 04/20/10


QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: NA
Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QQ59LCS
LIMS ID: 10-8216
Matrix: Water
Data Release Authorized: 
Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|-----------------|-------------|-------------|------------|---|
| Arsenic | 200.8 | 23.6 | 25.0 | 94.4% | |

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Calibration Verification



CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

UNITS: ug/L

SDG: QQ59

| ANALYTE | EL | M | RUN | ICVTV | ICV | %R | CCVTV | CCV1 | %R | CCV2 | %R | CCV3 | %R | CCV4 | %R | CCV5 | %R |
|---------|----|-----|----------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Arsenic | AS | PMS | MS041981 | 50.0 | 49.65 | 99.3 | 50.0 | 51.36 | 102.7 | 51.05 | 102.1 | 51.62 | 103.2 | 51.41 | 102.8 | 51.68 | 103.4 |

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification



CLIENT: Floyd/Snyder

PROJECT: Lora Lakes Apartment

SDG: QQ59

UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV6 | %R | CCV7 | %R | CCV8 | %R | CCV9 | %R | CCV10 | %R | CCV11 | %R |
|---------|----|-----|----------|-------|-------|-------|-------|-------|------|----|------|----|-------|----|-------|----|
| Arsenic | AS | PMS | MS041981 | 50.0 | 51.66 | 103.3 | 51.80 | 103.6 | | | | | | | | |

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

SDG: Q059



UNITS: ug/L

| ANALYTE | AS | PMS | MS041981 | 0.2 | CRA/I | TV | CR-1 | %R | CR-2 | %R | CR-3 | %R | CR-4 | %R | CR-5 | %R | CR-6 | %R |
|---------|----|-----|----------|-----|-------|----|------|-------|------|----|------|----|------|----|------|----|------|----|
| Arsenic | | | | | | | 0.25 | 125.0 | | | | | | | | | | |

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks



CLIENT: Floyd/Snyder

PROJECT: Lora Lakes Apartment

SDG: Q059

UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | ICB | CCB1 | CCB2 | CCB3 | CCB4 | CCB5 | C |
|---------|----|------|----------|------|-----|-----|------|------|------|------|------|---|
| Arsenic | AS | PMS | MS041981 | 10.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | U |

Q059: 00317

Calibration Blanks



CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

SDG: QQ59

UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB6 | CCB7 | CCB8 | CCB9 | CCB10 | CCB11 | C |
|---------|----|------|----------|------|-----|------|------|------|------|-------|-------|---|
| Arsenic | AS | PMS | MS041981 | 10.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | C |

QQ59 : 00318

ICP Interference Check Sample



CLIENT: Floyd/Snider
 PROJECT: Lora Lakes Apartment
 SDG: QQ59

ICS SOURCE: I.V.
 RUNID: MS041981
 INSTRUMENT ID: PE ELAN 6000
 UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|-------|--------|-------|-------|--------|----|-------|--------|----|
| Arsenic | | 20 | 0.1 | 20.1 | 100.5 | | | | | | |
| Cadmium | | 20 | 0.1 | 19.8 | 99.0 | | | | | | |
| Chromium | | 20 | 0.5 | 20.5 | 102.5 | | | | | | |
| Cobalt | | 20 | 0.0 | 19.6 | 98.0 | | | | | | |
| Copper | | 20 | 0.5 | 20.4 | 102.0 | | | | | | |
| Manganese | | 20 | 0.8 | 20.7 | 103.5 | | | | | | |
| Molybdenum | 400 | 400 | 402.6 | 404.9 | 101.2 | | | | | | |
| Nickel | | 20 | 0.8 | 20.9 | 104.5 | | | | | | |
| Selenium | | | 0.1 | 0.1 | | | | | | | |
| Silver | | 20 | 0.0 | 17.7 | 88.5 | | | | | | |
| Vanadium | | | -0.1 | -0.5 | | | | | | | |
| Zinc | | 20 | 0.8 | 20.7 | 103.5 | | | | | | |

IDLs and ICP Linear Ranges



CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

SDG: QQ59

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 | 4/1/2009 | | |

Preparation Log



CLIENT: Floyd/Snider

ANALYSIS METHOD: PMS

PROJECT: Lora Lakes Apartment

ARI PREP CODE: REN

SDG: QQ59

PREPDATE: 4/2/2010

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|------------------|------------|----------|---------------------|-------------------|
| CB31A032910COMP | QQ59A | 0.000 | 50.0 | 25.0 |
| CB4857032910COMP | QQ59B | 0.000 | 50.0 | 25.0 |
| CB1032910COMP | QQ59C | 0.000 | 50.0 | 25.0 |
| CB1032910COMP | QQ59CDUP | 0.000 | 50.0 | 25.0 |
| CB1032910COMPS | QQ59CSPK | 0.000 | 50.0 | 25.0 |
| CB100032910COMP | QQ59D | 0.000 | 50.0 | 25.0 |
| CB31A032910COMP | QQ59E | 0.000 | 50.0 | 25.0 |
| CB4857032910COMP | QQ59F | 0.000 | 50.0 | 25.0 |
| CB1032910COMP | QQ59G | 0.000 | 50.0 | 25.0 |
| CB1032910COMP | QQ59GDUP | 0.000 | 50.0 | 25.0 |
| CB1032910COMPS | QQ59GSPK | 0.000 | 50.0 | 25.0 |
| CB100032910COMP | QQ59H | 0.000 | 50.0 | 25.0 |
| PBW | QQ59MB1 | 0.000 | 50.0 | 25.0 |
| LCSW | QQ59MB1SPK | 0.000 | 50.0 | 25.0 |
| PBW | QQ59MB2 | 0.000 | 50.0 | 25.0 |
| LCSW | QQ59MB2SPK | 0.000 | 50.0 | 25.0 |

Analysis Run Log

CLIENT: Floyd/Snider

PROJECT: Lora Lakes Apartment

SDG: QQ59

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS041981 METHOD: PMS

START DATE: 4/19/2010

END DATE: 4/19/2010



| 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 | 09490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 | S1 | 1.00 | 09570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2 | S2 | 1.00 | 10050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S3 | S3 | 1.00 | 10130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4 | S4 | 1.00 | 10200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | Rinse Sampl | 1.00 | 10280 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 | 10420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICV | MICV | 1.00 | 10500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICB | ICB | 1.00 | 10580 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV1 | 1.00 | 11050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB1 | 1.00 | 11120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRI | MCRI | 1.00 | 11200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | ICSAI | 1.00 | 11270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSAB | ICSABI | 1.00 | 11350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | LR200 | 1.00 | 11430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | LR300 | 1.00 | 11510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV2 | 1.00 | 11580 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB2 | 1.00 | 12060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95MB2 | 2.00 | 12190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95MB2SPK | 2.00 | 12260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 10.00 | 12330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95F | 2.00 | 12390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95FDUP | 2.00 | 12460 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 2.00 | 12530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ21J | 2.00 | 13000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ17G | 2.00 | 13070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95FSPK | 2.00 | 13150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ17D | 5.00 | 13210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV3 | 1.00 | 13280 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB3 | 1.00 | 13360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 | 13430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV4 | 1.00 | 13510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB4 | 1.00 | 13590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95MB2 | 2.00 | 14060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95MB2SPK | 2.00 | 14130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Analysis Run Log

CLIENT: Floyd/Snider
 PROJECT: Lora Lakes Apartment
 SDG: QQ59
 INSTRUMENT ID: PE ELAN 6000 MS
 RUNID: MS041981
 METHOD: PMS
 START DATE: 4/19/2010
 END DATE: 4/19/2010

| 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 | QS95F-L | 10.00 | 14200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95F | 2.00 | 14270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95FDUP | 2.00 | 14330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QS95FSPK | 2.00 | 14400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV5 | 1.00 | 14470 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB5 | 1.00 | 14540 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| PBW | QQ59MB1 | 2.00 | 15050 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW | QQ59MB1SPK | 2.00 | 15120 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ17J | 2.00 | 15190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ17E | 2.00 | 15260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMP | QQ59CDUP | 2.00 | 15320 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMP | QQ59C | 2.00 | 15450 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMPS | QQ59CSPK | 2.00 | 15520 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMP | QQ59GDUP | 2.00 | 15590 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMP | QQ59G | 2.00 | 16050 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB1032910COMPS | QQ59GSPK | 2.00 | 16120 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV6 | 1.00 | 16200 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB6 | 1.00 | 16270 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| PBW | QQ59MB2 | 2.00 | 16340 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW | QQ59MB2SPK | 2.00 | 16410 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB31A032910COMP | QQ59A | 2.00 | 16480 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB4857032910COMP | QQ59B | 2.00 | 16550 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB100032910COMP | QQ59D | 2.00 | 17020 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB31A032910COMP | QQ59E | 2.00 | 17090 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB4857032910COMP | QQ59F | 2.00 | 17160 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CB100032910COMP | QQ59H | 2.00 | 17220 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ06U | 10.00 | 17290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QQ06V | 2.00 | 17360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV7 | 1.00 | 17440 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB7 | 1.00 | 17510 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |

Metals Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments


ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: CB31A032910COMP
SAMPLE

Lab Sample ID: QQ59A
 LIMS ID: 10-8212
 Matrix: Water
 Data Release Authorized: 
 Reported: 04/20/10

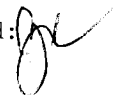
QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: 03/29/10
 Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.6 | |

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: CB4857032910COMP
SAMPLE

Lab Sample ID: QQ59B
 LIMS ID: 10-8213
 Matrix: Water
 Data Release Authorized: 
 Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: 03/29/10
 Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.6 | |

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: CB1032910COMP
SAMPLE


Lab Sample ID: QQ59C

QC Report No: QQ59-Floyd/Snider

LIMS ID: 10-8214

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/29/10

Reported: 04/20/10

Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.5 | 0.5 | U |


U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: CB100032910COMP
SAMPLE

Lab Sample ID: QQ59D
LIMS ID: 10-8215
Matrix: Water
Data Release Authorized 
Reported: 04/20/10


QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: 03/29/10
Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.8 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB31A032910COMP
SAMPLE

Lab Sample ID: QQ59E
LIMS ID: 10-8216
Matrix: Water
Data Release Authorized: 
Reported: 04/20/10

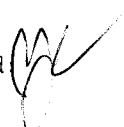
QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: 03/29/10
Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.4 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB4857032910COMP
SAMPLE

Lab Sample ID: QQ59F
LIMS ID: 10-8217
Matrix: Water
Data Release Authorized 
Reported: 04/20/10


QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: 03/29/10
Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.3 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1032910COMP
SAMPLE

Lab Sample ID: QQ59G
LIMS ID: 10-8218
Matrix: Water
Data Release Authorized: 
Reported: 04/20/10


QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments
Date Sampled: 03/29/10
Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.5 | 0.5 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: CB100032910COMP
SAMPLE

Lab Sample ID: QQ59H
 LIMS ID: 10-8219
 Matrix: Water
 Data Release Authorized: 
 Reported: 04/20/10

QC Report No: QQ59-Floyd/Snider
 Project: Lora Lakes Apartments
 Date Sampled: 03/29/10
 Date Received: 03/30/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 04/02/10 | 200.8 | 04/19/10 | 7440-38-2 | Arsenic | 0.2 | 0.4 | |

U-Analyte undetected at given RL
 RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4-19-10 Analyst: AS Page: 1 of 4

All corrections made by analyst unless otherwise noted.

4-19-10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|--------------------|-----------|----------|----------|
| | | STD0 | | | 2698-10 |
| | | 1 | | | 2701-1 |
| | | 2 | | | ↓ -2 |
| | | 3 | | | 2698-16 |
| | | ↓ 4 | | | 2701-3 |
| | | Rinse Sample | | | |
| | | STD0 | | | |
| | | ICV | | | 2695-4 |
| | | ICB | | | |
| | | CCV1 | | | |
| | | CCB1 | | | |
| | | low check | | | |
| | | ICSA | | | |
| | | ICSA0 | | | Li high |
| | | UR200 | | | |
| | | UR300 | | | |
| | | Cev2 | | | |
| | | Cev02 | | | |
| | ✓ | Q595MBZ | REN | 2 | |
| MBZSL | ↓ | MBZ spl | ↓ | ↓ | |
| 222 | ↓ | MBZ spl | ↓ | 10 | |
| | ↓ | F | ↓ | 2 | |
| | ↓ | FDup | ↓ | ↓ | |
| 222 | | 222222 | | | |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4-19-10 Analyst: AT Page: 2 of 6

All corrections made by analyst unless otherwise noted.

449-10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|------------|
| | | QQA J | RHU | 2 | try ix |
| | | QQM G | b | 2 | |
| | ✓ | QS95 fspl | REN | 2 | |
| | | QQM D | RHU | 5 | |
| | | CCV3 | | | Li Se high |
| | | CCB3 | | | ↓ |
| | | STO0 | | | |
| | | CCV4 | | | |
| | | CCB4 | | | |
| | | QS95 MB2 | REN | 2 | |
| MB SPL | | ↓ MB SPL | ↓ | ↓ | ✓ |
| | | ↓ FL | ↓ | 10 | ✓ |
| | | ↓ F | ↓ | 2 | |
| | | ↓ FDup | ↓ | ↓ | ✓ |
| | | ↓ fspl | ↓ | ↓ | ✓ |
| | | CCV5 | | | |
| | | CCB5 | | | |
| | | QQ59 MB1 | REN | 2 | |
| | | ↓ MB SPL | ↓ | ↓ | ✓ |
| | | QQM J | RHU | 2 | |
| | | ↓ E | ↓ | ↓ | |
| | | QQ59 CDup | REN | | ✓ |
| | | ↓ C | ↓ | ↓ | |
| | | ↓ Cspl | ↓ | ↓ | ✓ |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4-9-10

Analyst: KA

Page: 3 of 6

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------|
| | | QQ59 GDup | REN | 2 ✓ | |
| | | ↓ G | ↓ | ↓ | |
| | | ↓ GspL | ↓ | ↓ ✓ | |
| | | CCV6 | | | |
| | | CCB6 | | | |
| | | QQ59 MBZ | REN | 2 | |
| | | ↓ MBZspL | ↓ | ↓ ✓ | |
| | | ↓ A | ↓ | ↓ | |
| | | ↓ B | ↓ | ↓ | |
| | | ↓ D | ↓ | ↓ | |
| | | ↓ E | ↓ | ↓ | |
| | | ↓ F | ↓ | ↓ | |
| | | ↓ H | ↓ | ↓ | |
| | | QQ06 U | | 10 | Ni |
| | | ↓ V | ↓ | 2 | + |
| | | CCV7 | | | |
| | | CCB7 | | | and pkg |
| | | QQ06 MBZ | REN | 2 | |
| | | ↓ MBZspL | ↓ | ↓ ✓ | |
| | | ↓ AFDup | ↓ | ↓ ✓ | |
| | | ↓ AF | ↓ | ↓ | CAF |
| | | ↓ AFspL | ↓ | 7 | Zn 67% |
| | | ↓ AB | ↓ | 1000 | Ni |
| | | ↓ W | ↓ | 2 | ↓ |

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 4-19-10

| | Analyst <i>AMZ</i> | Peer <i>MMZ</i> | Comment |
|---|-----------------------|--------------------|----------------|
| Logbook: | | | |
| Analyst, Date, Method info | ✓ | ✓ | |
| Sample ID's | ✓ | ✓ | |
| Standard/QC solution ID's recorded | ✓ | ✓ | |
| Prep codes | ✓ | ✓ | |
| Dilution factors | ✓ | ✓ | |
| Crossouts/Corrections/Deletions | ✓ | ✓ | |
| Calibration: | | | |
| Blank & Standard intensities | ✓ | ✓ | |
| Standard deviations | ✓ | ✓ | |
| Curve fit | ✓ | ✓ | |
| Calibration Verification: | | | |
| ICV/CCV | ✓ | ✓ | See log |
| ICB/CCB | ✓ | ✓ | b |
| Samples: | | | |
| RSD's & SD's | ✓ | ✓ | |
| Internal Standards | ✓ | ✓ | see log |
| Carry-over | ✓ | ✓ | |
| Method QC: | | | |
| CRI/CRA | ✓ | ✓ | |
| ICSA/ICSAB | ✓ | ✓ | |
| Post Spikes/Serial Dilutions | ✓ | ✓ | |
| Analytic Spikes | ✓ | ✓ | |
| Matrix QC: | | | |
| SRM/LCS | ✓ | ✓ | |
| Matrix Spikes | ✓ | ✓ | QQ06 |
| Matrix Duplicates | ✓ | ✓ | |
| Method Blanks | ✓ | ✓ | QQ05 |
| Data Distribution: | | | |
| Requested elements/isotope identified | ✓ | ✓ | |
| Correct samples identified for distribution | ✓ | ✓ | |
| Raw data match distributed data | ✓ | ✓ | |
| Data filename correct | ✓ | ✓ | |
| Necessary Analysts Notes and CAF's | ✓ | ✓ | CAF QQ06, QQ05 |

15X

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 8.974 | 2012 | 2173 | 0.710 | |
| Mg | 23.985 | 23.929 | 5643 | 2280 | 0.726 | |
| Co | 58.933 | 58.929 | 14152 | 2552 | 0.718 | |
| In | 114.904 | 114.929 | 27768 | 3005 | 0.690 | |
| Pb | 207.977 | 207.974 | 50407 | 3777 | 0.683 | |

2/10/10

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.126 | 2037 | 2173 | 0.713 | |
| Mg | 23.985 | 23.979 | 5641 | 2283 | 0.708 | |
| Co | 58.933 | 58.879 | 14138 | 2552 | 0.722 | |
| In | 114.904 | 114.879 | 27761 | 3005 | 0.702 | |
| Pb | 207.977 | 207.977 | 50406 | 3777 | 0.682 | |

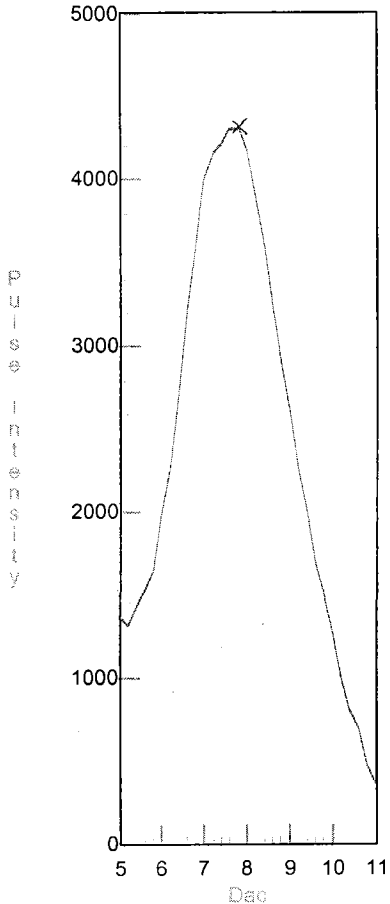
30

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

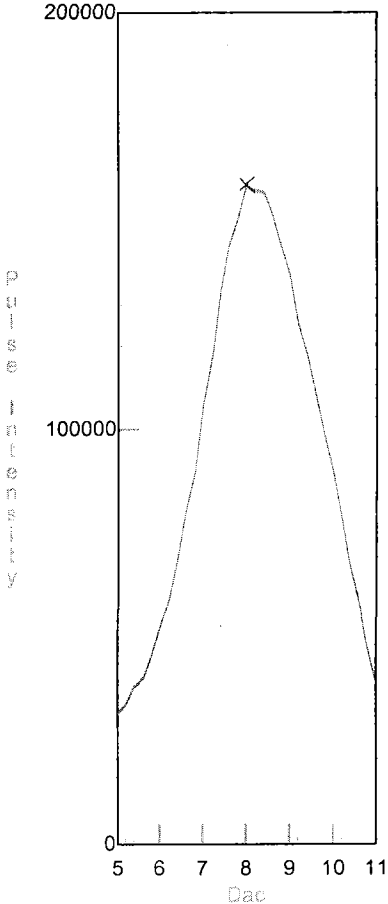
| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.025 | 2023 | 2173 | 0.702 | |
| Mg | 23.985 | 23.979 | 5655 | 2280 | 0.713 | |
| Co | 58.933 | 58.929 | 14152 | 2552 | 0.705 | |
| In | 114.904 | 114.929 | 27768 | 3005 | 0.681 | |
| Pb | 207.977 | 207.974 | 50407 | 3777 | 0.679 | |

Be 9.014

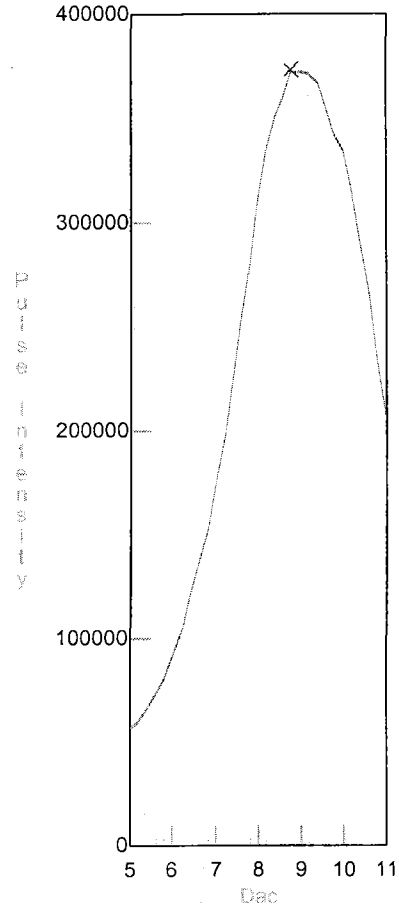


4-19-10

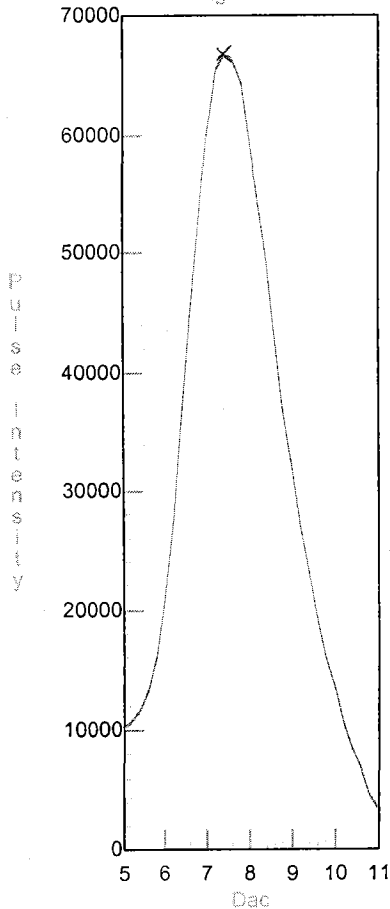
Co 58.932



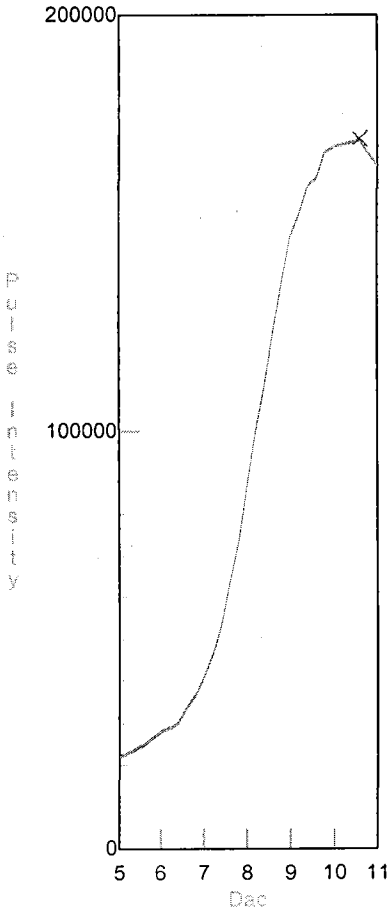
In 114.903



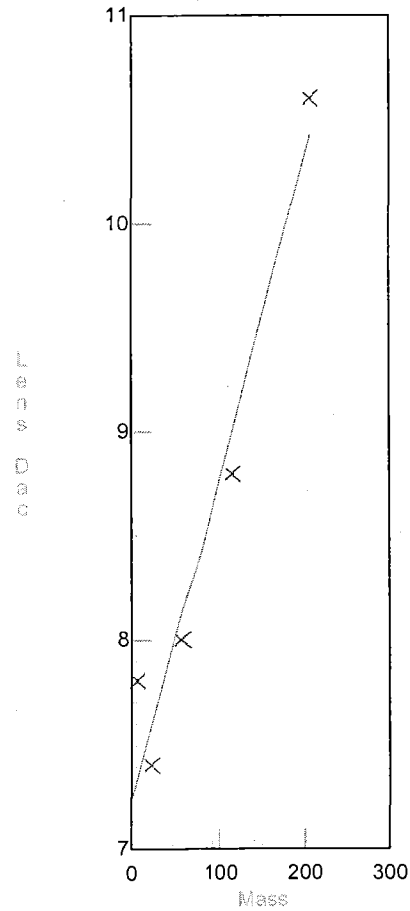
Mg 23.985



Pb 207.977



Lens vs. Mass



Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 19, 2010 08:56:34

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.6691

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

0.96

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 39207.391 | 661.822 | 1.688 |
| In | 115 | 328875.742 | 2086.964 | 0.635 |
| Pb | 208 | 149968.325 | 933.218 | 0.622 |
| [> Ba | 138 | 258718.637 | 2026.955 | 0.783 |
| [Ba++ | 69 | 0.012 | 0.000 | 2.092 |
| [> Ce | 140 | 310426.657 | 2535.253 | 0.817 |
| [CeO | 156 | 0.023 | 0.000 | 2.167 |
| Bkgd | 220 | 3.250 | 3.011 | 92.628 |

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 19, 2010 08:58:26

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.6692

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

0.92

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 39384.346 | 545.793 | 1.386 |
| In | 115 | 345214.888 | 2672.829 | 0.774 |
| Pb | 208 | 162153.985 | 839.332 | 0.518 |
| [> Ba | 138 | 272282.221 | 2628.123 | 0.965 |
| [Ba++ | 69 | 0.012 | 0.000 | 1.222 |
| [> Ce | 140 | 328451.885 | 2242.750 | 0.683 |
| [CeO | 156 | 0.025 | 0.001 | 2.668 |
| Bkgd | 220 | 2.750 | 1.046 | 38.030 |

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 19, 2010 08:59:51

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.6693

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

130

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 39682.333 | 1055.700 | 2.660 |
| In | 115 | 358008.612 | 3172.676 | 0.886 |
| Pb | 208 | 170923.378 | 1325.473 | 0.775 |
| [> Ba | 138 | 285596.127 | 2510.002 | 0.879 |
| [Ba++ | 69 | 0.012 | 0.000 | 1.773 |
| [> Ce | 140 | 343677.540 | 2852.950 | 0.830 |
| [CeO | 156 | 0.029 | 0.001 | 2.901 |
| Bkgd | 220 | 2.000 | 1.677 | 83.853 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 09:49:42

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 475141 | 1 |
| [Be | 9 | | ug/L | | | | 0 | 86 |
| C | 13 | | mg/L | | | | 4431 | 2 |
| Cl | 37 | | mg/L | | | | 2404613 | 0 |
| [> Sc | 45 | | ug/L | | | | 246710 | 0 |
| V-1 | 51 | | ug/L | | | | 2582 | 9 |
| V | 51 | | ug/L | | | | 1002 | 25 |
| Cr | 52 | | ug/L | | | | 6400 | 2 |
| Cr | 53 | | ug/L | | | | 217 | 11 |
| Mn | 55 | | ug/L | | | | 3240 | 5 |
| [Co | 59 | | ug/L | | | | 217 | 3 |
| [> Ge | 72 | | ug/L | | | | 351377 | 0 |
| Ni | 60 | | ug/L | | | | 760 | 2 |
| Ni | 62 | | ug/L | | | | 168 | 2 |
| Cu | 63 | | ug/L | | | | 780 | 3 |
| Cu | 65 | | ug/L | | | | 343 | 6 |
| Zn | 66 | | ug/L | | | | 5646 | 32 |
| Zn | 67 | | ug/L | | | | 898 | 29 |
| Zn | 68 | | ug/L | | | | 8988 | 13 |
| As-1 | 75 | | ug/L | | | | -153 | 11 |
| As | 75 | | ug/L | | | | 6773 | 0 |
| Se | 82 | | ug/L | | | | -7 | 80 |
| Se | 78 | | ug/L | | | | 7102 | 0 |
| [Mo | 98 | | ug/L | | | | 311 | 16 |
| Y | 89 | | ug/L | | | | 226291 | 0 |
| Kr | 83 | | ug/L | | | | 85 | 8 |
| [> In | 115 | | ug/L | | | | 381917 | 0 |
| Ag | 107 | | ug/L | | | | 45 | 38 |
| Cd | 111 | | ug/L | | | | 202 | 6 |
| Cd | 114 | | ug/L | | | | 49 | 19 |
| Sb | 121 | | ug/L | | | | 42 | 29 |
| Sb | 123 | | ug/L | | | | 34 | 9 |
| Ba | 135 | | ug/L | | | | 141 | 28 |
| [Ba | 137 | | ug/L | | | | 236 | 32 |
| [> Tb | 159 | | ug/L | | | | 403405 | 0 |
| Tl | 205 | | ug/L | | | | 164 | 9 |
| Pb | 208 | | ug/L | | | | 859 | 16 |
| Bi | 209 | | ug/L | | | | 264826 | 0 |
| Th | 232 | | ug/L | | | | 99 | 7 |
| [U | 238 | | ug/L | | | | 60 | 36 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 09:57:29

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 475141 | 472052 | 0 |
| [Be | 9 | 10.000 | ug/L | 0.156 | 1 | 0 | 4419 | 2 |
| C | 13 | | mg/L | | | 4431 | 2785 | 2 |
| Cl | 37 | | mg/L | | | 2404613 | 2346144 | 0 |
| [> Sc | 45 | | ug/L | | | 246710 | 242613 | 0 |
| V-1 | 51 | 10.000 | ug/L | 0.024 | 0 | 2582 | 115088 | 0 |
| V | 51 | 10.000 | ug/L | 0.032 | 0 | 1002 | 116051 | 0 |
| Cr | 52 | 10.000 | ug/L | 0.098 | 0 | 6400 | 109365 | 0 |
| Cr | 53 | 10.000 | ug/L | 0.116 | 1 | 217 | 12666 | 1 |
| Mn | 55 | 10.000 | ug/L | 0.039 | 0 | 3240 | 187742 | 0 |
| Co | 59 | 10.000 | ug/L | 0.020 | 0 | 217 | 144651 | 0 |
| [> Ge | 72 | | ug/L | | | 351377 | 343356 | 0 |
| Ni | 60 | 10.000 | ug/L | 0.057 | 0 | 760 | 30974 | 0 |
| Ni | 62 | 10.000 | ug/L | 0.012 | 0 | 168 | 4708 | 0 |
| Cu | 63 | 10.000 | ug/L | 0.023 | 0 | 780 | 69010 | 0 |
| Cu | 65 | 10.000 | ug/L | 0.069 | 0 | 343 | 32687 | 0 |
| Zn | 66 | 10.000 | ug/L | 0.083 | 0 | 5646 | 24893 | 0 |
| Zn | 67 | 10.000 | ug/L | 0.038 | 0 | 898 | 4200 | 0 |
| Zn | 68 | 10.000 | ug/L | 0.143 | 1 | 8988 | 22244 | 1 |
| As-1 | 75 | 10.000 | ug/L | 0.082 | 0 | -153 | 17200 | 0 |
| As | 75 | 10.000 | ug/L | 0.085 | 0 | 6773 | 24174 | 0 |
| Se | 82 | 10.000 | ug/L | 0.058 | 0 | -7 | 1837 | 0 |
| Se | 78 | 10.000 | ug/L | 0.152 | 1 | 7102 | 11867 | 0 |
| Mo | 98 | 10.000 | ug/L | 0.050 | 0 | 311 | 49475 | 0 |
| Y | 89 | | ug/L | | | 226291 | 222262 | 0 |
| Kr | 83 | | ug/L | | | 85 | 98 | 4 |
| [> In | 115 | | ug/L | | | 381917 | 374697 | 0 |
| Ag | 107 | 10.000 | ug/L | 0.086 | 0 | 45 | 117210 | 0 |
| Cd | 111 | 10.000 | ug/L | 0.048 | 0 | 202 | 30264 | 0 |
| Cd | 114 | 10.000 | ug/L | 0.063 | 0 | 49 | 73240 | 1 |
| Sb | 121 | 10.000 | ug/L | 0.040 | 0 | 42 | 101189 | 0 |
| Sb | 123 | 10.000 | ug/L | 0.028 | 0 | 34 | 78525 | 0 |
| Ba | 135 | 10.000 | ug/L | 0.087 | 0 | 141 | 26242 | 1 |
| Ba | 137 | 10.000 | ug/L | 0.020 | 0 | 236 | 45164 | 0 |
| [> Tb | 159 | | ug/L | | | 403405 | 393160 | 0 |
| Tl | 205 | 10.000 | ug/L | 0.052 | 0 | 164 | 219663 | 0 |
| Pb | 208 | 10.000 | ug/L | 0.073 | 0 | 859 | 307942 | 0 |
| Bi | 209 | | ug/L | | | 264826 | 261263 | 0 |
| Th | 232 | 10.000 | ug/L | 0.075 | 0 | 99 | 423308 | 0 |
| [U | 238 | 10.000 | ug/L | 0.133 | 1 | 60 | 447243 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:05:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 475141 | 414147 | 0 |
| [Be | 9 | 20.038 | ug/L | 0.246 | 1 | 0 | 7827 | 0 |
| C | 13 | | mg/L | | | 4431 | 3072 | 1 |
| Cl | 37 | | mg/L | | | 2404613 | 2376141 | 0 |
| [> Sc | 45 | | ug/L | | | 246710 | 220997 | 0 |
| V-1 | 51 | 19.986 | ug/L | 0.188 | 0 | 2582 | 206629 | 0 |
| V | 51 | 19.984 | ug/L | 0.087 | 0 | 1002 | 209704 | 0 |
| Cr | 52 | 19.979 | ug/L | 0.156 | 0 | 6400 | 192523 | 0 |
| Cr | 53 | 19.975 | ug/L | 0.197 | 0 | 217 | 22738 | 1 |
| Mn | 55 | 19.964 | ug/L | 0.110 | 0 | 3240 | 336122 | 0 |
| [Co | 59 | 19.954 | ug/L | 0.007 | 0 | 217 | 260340 | 0 |
| [> Ge | 72 | | ug/L | | | 351377 | 320382 | 0 |
| Ni | 60 | 19.893 | ug/L | 0.033 | 0 | 760 | 55627 | 0 |
| Ni | 62 | 19.878 | ug/L | 0.261 | 1 | 168 | 8381 | 1 |
| Cu | 63 | 19.928 | ug/L | 0.039 | 0 | 780 | 125801 | 0 |
| Cu | 65 | 19.935 | ug/L | 0.144 | 0 | 343 | 59726 | 0 |
| Zn | 66 | 20.235 | ug/L | 0.142 | 0 | 5646 | 43533 | 0 |
| Zn | 67 | 20.115 | ug/L | 0.374 | 1 | 898 | 7203 | 1 |
| Zn | 68 | 20.354 | ug/L | 0.304 | 1 | 8988 | 35710 | 0 |
| As-1 | 75 | 19.971 | ug/L | 0.081 | 0 | -153 | 32003 | 0 |
| As | 75 | 20.044 | ug/L | 0.161 | 0 | 6773 | 39303 | 0 |
| Se | 82 | 19.933 | ug/L | 0.311 | 1 | -7 | 3379 | 1 |
| Se | 78 | 20.190 | ug/L | 0.053 | 0 | 7102 | 16127 | 0 |
| [Mo | 98 | 19.952 | ug/L | 0.042 | 0 | 311 | 90945 | 0 |
| Y | 89 | | ug/L | | | 226291 | 203778 | 0 |
| Kr | 83 | | ug/L | | | 85 | 106 | 8 |
| [> In | 115 | | ug/L | | | 381917 | 343237 | 0 |
| Ag | 107 | 19.939 | ug/L | 0.103 | 0 | 45 | 211481 | 0 |
| Cd | 111 | 19.915 | ug/L | 0.212 | 1 | 202 | 54112 | 0 |
| Cd | 114 | 19.959 | ug/L | 0.137 | 0 | 49 | 132775 | 1 |
| Sb | 121 | 20.016 | ug/L | 0.179 | 0 | 42 | 186060 | 0 |
| Sb | 123 | 19.997 | ug/L | 0.189 | 0 | 34 | 143701 | 0 |
| Ba | 135 | 19.983 | ug/L | 0.163 | 0 | 141 | 47749 | 0 |
| [Ba | 137 | 19.991 | ug/L | 0.175 | 0 | 236 | 82348 | 0 |
| [> Tb | 159 | | ug/L | | | 403405 | 358047 | 0 |
| Tl | 205 | 19.985 | ug/L | 0.195 | 0 | 164 | 398413 | 0 |
| Pb | 208 | 19.994 | ug/L | 0.083 | 0 | 859 | 559248 | 0 |
| Bi | 209 | | ug/L | | | 264826 | 239806 | 0 |
| Th | 232 | 20.023 | ug/L | 0.186 | 0 | 99 | 775408 | 0 |
| [U | 238 | 19.989 | ug/L | 0.118 | 0 | 60 | 812415 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:13:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 475141 | 406504 | 0 |
| [Be | 9 | 50.369 | ug/L | 0.132 | 0 | 0 | 20050 | 0 |
| C | 13 | | mg/L | | | 4431 | 3509 | 2 |
| Cl | 37 | | mg/L | | | 2404613 | 2315145 | 0 |
| [> Sc | 45 | | ug/L | | | 246710 | 217705 | 0 |
| V-1 | 51 | 50.218 | ug/L | 0.248 | 0 | 2582 | 519267 | 0 |
| V | 51 | 50.243 | ug/L | 0.329 | 0 | 1002 | 530886 | 0 |
| Cr | 52 | 50.159 | ug/L | 0.708 | 1 | 6400 | 475061 | 0 |
| Cr | 53 | 50.238 | ug/L | 0.912 | 1 | 217 | 57397 | 1 |
| Mn | 55 | 50.108 | ug/L | 0.649 | 1 | 3240 | 835677 | 0 |
| [Co | 59 | 50.142 | ug/L | 0.458 | 0 | 217 | 653440 | 0 |
| [> Ge | 72 | | ug/L | | | 351377 | 316324 | 0 |
| Ni | 60 | 50.025 | ug/L | 0.259 | 0 | 760 | 137418 | 0 |
| Ni | 62 | 50.009 | ug/L | 0.169 | 0 | 168 | 20605 | 0 |
| Cu | 63 | 49.994 | ug/L | 0.145 | 0 | 780 | 310353 | 0 |
| Cu | 65 | 50.039 | ug/L | 0.222 | 0 | 343 | 148132 | 0 |
| Zn | 66 | 50.525 | ug/L | 0.114 | 0 | 5646 | 104960 | 0 |
| Zn | 67 | 50.587 | ug/L | 0.601 | 1 | 898 | 17651 | 0 |
| Zn | 68 | 50.384 | ug/L | 0.321 | 0 | 8988 | 78022 | 0 |
| As-1 | 75 | 50.098 | ug/L | 0.237 | 0 | -153 | 80258 | 0 |
| As | 75 | 50.029 | ug/L | 0.221 | 0 | 6773 | 87969 | 0 |
| Se | 82 | 50.012 | ug/L | 0.375 | 0 | -7 | 8392 | 1 |
| Se | 78 | 49.741 | ug/L | 0.145 | 0 | 7102 | 29276 | 0 |
| [Mo | 98 | 50.191 | ug/L | 0.142 | 0 | 311 | 229856 | 0 |
| Y | 89 | | ug/L | | | 226291 | 201047 | 0 |
| Kr | 83 | | ug/L | | | 85 | 109 | 1 |
| [> In | 115 | | ug/L | | | 381917 | 337209 | 0 |
| Ag | 107 | 50.176 | ug/L | 0.302 | 0 | 45 | 532156 | 0 |
| Cd | 111 | 50.113 | ug/L | 0.254 | 0 | 202 | 135040 | 0 |
| Cd | 114 | 50.075 | ug/L | 0.338 | 0 | 49 | 329661 | 0 |
| Sb | 121 | 50.274 | ug/L | 0.275 | 0 | 42 | 471999 | 0 |
| Sb | 123 | 50.256 | ug/L | 0.198 | 0 | 34 | 364106 | 0 |
| Ba | 135 | 50.232 | ug/L | 0.470 | 0 | 141 | 120520 | 0 |
| [Ba | 137 | 50.150 | ug/L | 0.116 | 0 | 236 | 205734 | 0 |
| [> Tb | 159 | | ug/L | | | 403405 | 351700 | 0 |
| Tl | 205 | 50.253 | ug/L | 0.329 | 0 | 164 | 1009410 | 0 |
| Pb | 208 | 50.204 | ug/L | 0.413 | 0 | 859 | 1406840 | 0 |
| Bi | 209 | | ug/L | | | 264826 | 235860 | 0 |
| Th | 232 | 50.344 | ug/L | 0.341 | 0 | 99 | 1983112 | 0 |
| [U | 238 | 50.723 | ug/L | 0.570 | 1 | 60 | 2182480 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:20:55

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 475141 | 376562 | 1 |
| [Be | 9 | 99.709 | ug/L | 1.257 | 1 | 0 | 36415 | 1 |
| C | 13 | | mg/L | | | 4431 | 2925 | 2 |
| Cl | 37 | | mg/L | | | 2404613 | 2292080 | 0 |
| [> Sc | 45 | | ug/L | | | 246710 | 206803 | 1 |
| [V-1 | 51 | 99.870 | ug/L | 0.465 | 0 | 2582 | 974694 | 1 |
| [V | 51 | 99.861 | ug/L | 0.310 | 0 | 1002 | 996933 | 1 |
| [Cr | 52 | 99.711 | ug/L | 0.241 | 0 | 6400 | 883381 | 1 |
| [Cr | 53 | 99.694 | ug/L | 0.682 | 0 | 217 | 106933 | 0 |
| [Mn | 55 | 99.657 | ug/L | 0.015 | 0 | 3240 | 1558445 | 1 |
| [Co | 59 | 99.714 | ug/L | 0.139 | 0 | 217 | 1222589 | 1 |
| [> Ge | 72 | | ug/L | | | 351377 | 307701 | 1 |
| [Ni | 60 | 99.032 | ug/L | 0.376 | 0 | 760 | 255752 | 1 |
| [Ni | 62 | 99.368 | ug/L | 0.024 | 0 | 168 | 38865 | 1 |
| [Cu | 63 | 99.092 | ug/L | 0.446 | 0 | 780 | 580153 | 0 |
| [Cu | 65 | 99.170 | ug/L | 0.381 | 0 | 343 | 277604 | 1 |
| [Zn | 66 | 99.683 | ug/L | 0.379 | 0 | 5646 | 194614 | 0 |
| [Zn | 67 | 99.646 | ug/L | 0.581 | 0 | 898 | 32681 | 0 |
| [Zn | 68 | 99.780 | ug/L | 0.175 | 0 | 8988 | 141609 | 1 |
| [As-1 | 75 | 99.493 | ug/L | 0.445 | 0 | -153 | 152604 | 1 |
| [As | 75 | 99.407 | ug/L | 0.383 | 0 | 6773 | 161114 | 1 |
| [Se | 82 | 99.124 | ug/L | 0.624 | 0 | -7 | 15728 | 1 |
| [Se | 78 | 98.812 | ug/L | 0.367 | 0 | 7102 | 48753 | 1 |
| [Mo | 98 | 99.566 | ug/L | 0.431 | 0 | 311 | 436959 | 1 |
| [Y | 89 | | ug/L | | | 226291 | 192508 | 1 |
| [Kr | 83 | | ug/L | | | 85 | 129 | 2 |
| [> In | 115 | | ug/L | | | 381917 | 320575 | 1 |
| [Ag | 107 | 99.515 | ug/L | 0.228 | 0 | 45 | 987351 | 0 |
| [Cd | 111 | 99.493 | ug/L | 0.223 | 0 | 202 | 250484 | 0 |
| [Cd | 114 | 99.578 | ug/L | 0.408 | 0 | 49 | 614553 | 1 |
| [Sb | 121 | 99.832 | ug/L | 0.292 | 0 | 42 | 886053 | 1 |
| [Sb | 123 | 99.918 | ug/L | 0.069 | 0 | 34 | 686286 | 1 |
| [Ba | 135 | 99.851 | ug/L | 0.317 | 0 | 141 | 226522 | 1 |
| [Ba | 137 | 99.904 | ug/L | 0.481 | 0 | 236 | 388191 | 1 |
| [> Tb | 159 | | ug/L | | | 403405 | 331341 | 1 |
| [Tl | 205 | 100.113 | ug/L | 0.970 | 0 | 164 | 1901356 | 0 |
| [Pb | 208 | 100.192 | ug/L | 0.775 | 0 | 859 | 2661310 | 0 |
| [Bi | 209 | | ug/L | | | 264826 | 225916 | 1 |
| [Th | 232 | 101.739 | ug/L | 1.497 | 1 | 99 | 4007327 | 0 |
| [U | 238 | 100.681 | ug/L | 1.060 | 1 | 60 | 4175747 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:28:44

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 475141 | 373920 | 2 |
| [Be | 9 | 0.008 | ug/L | 0.009 | 104 | 0 | 3 | 88 |
| C | 13 | | mg/L | | | 4431 | 3866 | 1 |
| Cl | 37 | | mg/L | | | 2404613 | 2322609 | 0 |
| [> Sc | 45 | | ug/L | | | 246710 | 206786 | 1 |
| V-1 | 51 | -0.032 | ug/L | 0.004 | 13 | 2582 | 1857 | 2 |
| V | 51 | -0.041 | ug/L | 0.001 | 2 | 1002 | 430 | 0 |
| Cr | 52 | 0.032 | ug/L | 0.008 | 24 | 6400 | 5647 | 0 |
| Cr | 53 | -0.000 | ug/L | 0.010 | 2106 | 217 | 182 | 5 |
| Mn | 55 | -0.043 | ug/L | 0.001 | 3 | 3240 | 2043 | 2 |
| [Co | 59 | 0.003 | ug/L | 0.002 | 58 | 217 | 219 | 11 |
| [> Ge | 72 | | ug/L | | | 351377 | 309027 | 1 |
| Ni | 60 | -0.058 | ug/L | 0.010 | 16 | 760 | 519 | 5 |
| Ni | 62 | -0.021 | ug/L | 0.040 | 189 | 168 | 140 | 10 |
| Cu | 63 | -0.053 | ug/L | 0.003 | 5 | 780 | 372 | 5 |
| Cu | 65 | -0.053 | ug/L | 0.003 | 6 | 343 | 152 | 5 |
| Zn | 66 | -2.038 | ug/L | 0.026 | 1 | 5646 | 1072 | 5 |
| Zn | 67 | -1.805 | ug/L | 0.027 | 1 | 898 | 209 | 5 |
| Zn | 68 | -1.571 | ug/L | 0.034 | 2 | 8988 | 5790 | 0 |
| As-1 | 75 | 0.032 | ug/L | 0.003 | 8 | -153 | -85 | 4 |
| As | 75 | 0.548 | ug/L | 0.068 | 12 | 6773 | 6816 | 0 |
| Se | 82 | 0.001 | ug/L | 0.031 | 2349 | -7 | -6 | 77 |
| Se | 78 | 1.950 | ug/L | 0.222 | 11 | 7102 | 7088 | 0 |
| [Mo | 98 | -0.043 | ug/L | 0.005 | 11 | 311 | 84 | 26 |
| Y | 89 | | ug/L | | | 226291 | 196220 | 1 |
| Kr | 83 | | ug/L | | | 85 | 89 | 6 |
| [> In | 115 | | ug/L | | | 381917 | 330078 | 1 |
| Ag | 107 | 0.003 | ug/L | 0.001 | 26 | 45 | 69 | 12 |
| Cd | 111 | -0.004 | ug/L | 0.007 | 191 | 202 | 165 | 10 |
| Cd | 114 | -0.001 | ug/L | 0.001 | 81 | 49 | 36 | 15 |
| Sb | 121 | 0.064 | ug/L | 0.014 | 21 | 42 | 619 | 21 |
| Sb | 123 | 0.062 | ug/L | 0.015 | 23 | 34 | 466 | 23 |
| Ba | 135 | -0.036 | ug/L | 0.002 | 5 | 141 | 37 | 13 |
| [Ba | 137 | -0.033 | ug/L | 0.002 | 7 | 236 | 70 | 15 |
| [> Tb | 159 | | ug/L | | | 403405 | 340866 | 1 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 532 | 164 | 134 | 20 |
| Pb | 208 | -0.005 | ug/L | 0.001 | 28 | 859 | 585 | 8 |
| Bi | 209 | | ug/L | | | 264826 | 238837 | 0 |
| Th | 232 | 0.038 | ug/L | 0.007 | 19 | 99 | 1618 | 19 |
| [U | 238 | 0.005 | ug/L | 0.002 | 49 | 60 | 244 | 40 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:42:41

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 368511 | 0 |
| [Be | 9 | | ug/L | | | | 1 | 86 |
| C | 13 | | mg/L | | | | 3795 | 3 |
| Cl | 37 | | mg/L | | | | 2323713 | 0 |
| [> Sc | 45 | | ug/L | | | | 205072 | 0 |
| V-1 | 51 | | ug/L | | | | 1772 | 4 |
| V | 51 | | ug/L | | | | 427 | 6 |
| Cr | 52 | | ug/L | | | | 5532 | 0 |
| Cr | 53 | | ug/L | | | | 195 | 12 |
| Mn | 55 | | ug/L | | | | 1844 | 0 |
| [Co | 59 | | ug/L | | | | 132 | 1 |
| [> Ge | 72 | | ug/L | | | | 307391 | 0 |
| Ni | 60 | | ug/L | | | | 475 | 2 |
| Ni | 62 | | ug/L | | | | 133 | 6 |
| Cu | 63 | | ug/L | | | | 391 | 3 |
| Cu | 65 | | ug/L | | | | 136 | 15 |
| Zn | 66 | | ug/L | | | | 997 | 2 |
| Zn | 67 | | ug/L | | | | 177 | 9 |
| Zn | 68 | | ug/L | | | | 5761 | 0 |
| As-1 | 75 | | ug/L | | | | -137 | 32 |
| As | 75 | | ug/L | | | | 6757 | 0 |
| Se | 82 | | ug/L | | | | -12 | 60 |
| Se | 78 | | ug/L | | | | 7072 | 0 |
| [Mo | 98 | | ug/L | | | | 26 | 23 |
| Y | 89 | | ug/L | | | | 195744 | 0 |
| Kr | 83 | | ug/L | | | | 92 | 3 |
| [> In | 115 | | ug/L | | | | 326340 | 0 |
| Ag | 107 | | ug/L | | | | 47 | 24 |
| Cd | 111 | | ug/L | | | | 161 | 8 |
| Cd | 114 | | ug/L | | | | 26 | 1 |
| Sb | 121 | | ug/L | | | | 125 | 19 |
| Sb | 123 | | ug/L | | | | 92 | 15 |
| Ba | 135 | | ug/L | | | | 33 | 17 |
| [Ba | 137 | | ug/L | | | | 66 | 14 |
| [> Tb | 159 | | ug/L | | | | 338862 | 0 |
| Tl | 205 | | ug/L | | | | 91 | 10 |
| Pb | 208 | | ug/L | | | | 506 | 4 |
| Bi | 209 | | ug/L | | | | 237757 | 0 |
| Th | 232 | | ug/L | | | | 538 | 15 |
| [U | 238 | | ug/L | | | | 44 | 12 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Monday, April 19, 2010 10:42:41

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0471 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0482 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0426 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0052 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0755 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0593 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 0.9998 | 0.0084 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 0.9999 | 0.0190 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 0.9999 | 0.0091 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 0.9999 | 0.0062 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 0.9999 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 0.9999 | 0.0044 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0050 | 10 | 20 | 50 | 100 | |
| As | 75 | 0.9999 | 0.0051 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9997 | 0.0014 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0143 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 1.0000 | 0.0309 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0192 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0277 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0214 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0071 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0121 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 1.0000 | 0.0573 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0802 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1189 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9998 | 0.1252 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:50:30

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 368511 | 377038 | 1 |
| [Be | 9 | 50.477 | ug/L | 0.502 | 0 | 1 | 18459 | 1 |
| C | 13 | | mg/L | | | 3795 | 4676 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 2262806 | 0 |
| > Sc | 45 | | ug/L | | | 205072 | 206662 | 0 |
| V-1 | 51 | 50.041 | ug/L | 0.060 | 0 | 1772 | 488731 | 0 |
| V | 51 | 50.120 | ug/L | 0.152 | 0 | 427 | 500016 | 0 |
| Cr | 52 | 49.572 | ug/L | 0.031 | 0 | 5532 | 441780 | 0 |
| Cr | 53 | 49.840 | ug/L | 0.301 | 0 | 195 | 53530 | 0 |
| Mn | 55 | 49.249 | ug/L | 0.368 | 0 | 1844 | 770148 | 0 |
| Co | 59 | 50.865 | ug/L | 0.185 | 0 | 132 | 623259 | 0 |
| > Ge | 72 | | ug/L | | | 307391 | 307201 | 0 |
| Ni | 60 | 50.454 | ug/L | 0.416 | 0 | 475 | 130217 | 0 |
| Ni | 62 | 50.103 | ug/L | 0.427 | 0 | 133 | 19624 | 1 |
| Cu | 63 | 50.852 | ug/L | 0.272 | 0 | 391 | 297281 | 0 |
| Cu | 65 | 50.890 | ug/L | 0.476 | 0 | 136 | 142201 | 0 |
| Zn | 66 | 51.285 | ug/L | 0.207 | 0 | 997 | 98421 | 0 |
| Zn | 67 | 51.286 | ug/L | 0.534 | 1 | 177 | 16567 | 1 |
| Zn | 68 | 51.072 | ug/L | 0.337 | 0 | 5761 | 74100 | 1 |
| As-1 | 75 | 49.651 | ug/L | 0.251 | 0 | -137 | 75957 | 0 |
| As | 75 | 49.524 | ug/L | 0.261 | 0 | 6757 | 83935 | 0 |
| Se | 82 | 80.083 | ug/L | 0.341 | 0 | -12 | 12678 | 0 |
| Se | 78 | 77.586 | ug/L | 0.175 | 0 | 7072 | 40410 | 0 |
| Mo | 98 | 50.414 | ug/L | 0.405 | 0 | 26 | 220773 | 0 |
| Y | 89 | | ug/L | | | 195744 | 195528 | 0 |
| Kr | 83 | | ug/L | | | 92 | 102 | 6 |
| > In | 115 | | ug/L | | | 326340 | 326106 | 0 |
| Ag | 107 | 47.309 | ug/L | 0.060 | 0 | 47 | 477524 | 0 |
| Cd | 111 | 49.652 | ug/L | 0.344 | 0 | 161 | 127235 | 0 |
| Cd | 114 | 49.654 | ug/L | 0.112 | 0 | 26 | 311729 | 0 |
| Sb | 121 | 49.424 | ug/L | 0.022 | 0 | 125 | 446340 | 0 |
| Sb | 123 | 49.262 | ug/L | 0.070 | 0 | 92 | 344270 | 0 |
| Ba | 135 | 50.210 | ug/L | 0.272 | 0 | 33 | 115842 | 0 |
| Ba | 137 | 50.547 | ug/L | 0.254 | 0 | 66 | 199755 | 0 |
| > Tb | 159 | | ug/L | | | 338862 | 338311 | 0 |
| Tl | 205 | 51.001 | ug/L | 0.547 | 1 | 91 | 989086 | 0 |
| Pb | 208 | 50.612 | ug/L | 0.443 | 0 | 506 | 1372858 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 234758 | 0 |
| Th | 232 | 48.677 | ug/L | 0.576 | 1 | 538 | 1958373 | 0 |
| U | 238 | 51.649 | ug/L | 0.904 | 1 | 44 | 2187318 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 10:58:00

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 368511 | 360776 | 1 |
| [Be | 9 | 0.008 | ug/L | 0.008 | 97 | 1 | 4 | 62 |
| C | 13 | | mg/L | | | 3795 | 3873 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2330120 | 0 |
| > Sc | 45 | | ug/L | | | 205072 | 204797 | 0 |
| V-1 | 51 | 0.010 | ug/L | 0.004 | 40 | 1772 | 1866 | 2 |
| V | 51 | -0.001 | ug/L | 0.003 | 208 | 427 | 412 | 6 |
| Cr | 52 | 0.010 | ug/L | 0.018 | 171 | 5532 | 5615 | 2 |
| Cr | 53 | -0.024 | ug/L | 0.005 | 20 | 195 | 169 | 2 |
| Mn | 55 | -0.005 | ug/L | 0.003 | 58 | 1844 | 1767 | 2 |
| [Co | 59 | 0.004 | ug/L | 0.002 | 40 | 132 | 182 | 11 |
| > Ge | 72 | | ug/L | | | 307391 | 307620 | 0 |
| Ni | 60 | -0.005 | ug/L | 0.012 | 247 | 475 | 462 | 6 |
| Ni | 62 | -0.015 | ug/L | 0.060 | 394 | 133 | 127 | 18 |
| Cu | 63 | -0.000 | ug/L | 0.002 | 679 | 391 | 390 | 3 |
| Cu | 65 | 0.004 | ug/L | 0.006 | 133 | 136 | 148 | 10 |
| Zn | 66 | 0.003 | ug/L | 0.021 | 635 | 997 | 1004 | 4 |
| Zn | 67 | 0.108 | ug/L | 0.055 | 51 | 177 | 212 | 8 |
| Zn | 68 | -0.014 | ug/L | 0.056 | 410 | 5761 | 5747 | 1 |
| As-1 | 75 | 0.014 | ug/L | 0.023 | 163 | -137 | -115 | 30 |
| As | 75 | 0.013 | ug/L | 0.028 | 213 | 6757 | 6782 | 0 |
| Se | 82 | 0.030 | ug/L | 0.073 | 240 | -12 | -7 | 147 |
| Se | 78 | 0.019 | ug/L | 0.069 | 362 | 7072 | 7085 | 0 |
| [Mo | 98 | 0.006 | ug/L | 0.001 | 23 | 26 | 50 | 11 |
| Y | 89 | | ug/L | | | 195744 | 196605 | 0 |
| Kr | 83 | | ug/L | | | 92 | 91 | 5 |
| > In | 115 | | ug/L | | | 326340 | 326689 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 73 | 47 | 64 | 19 |
| Cd | 111 | -0.001 | ug/L | 0.006 | 781 | 161 | 159 | 10 |
| Cd | 114 | -0.000 | ug/L | 0.001 | 4399 | 26 | 26 | 20 |
| Sb | 121 | 0.003 | ug/L | 0.003 | 104 | 125 | 148 | 15 |
| Sb | 123 | 0.002 | ug/L | 0.001 | 24 | 92 | 109 | 3 |
| Ba | 135 | 0.008 | ug/L | 0.002 | 24 | 33 | 51 | 8 |
| [Ba | 137 | -0.004 | ug/L | 0.002 | 52 | 66 | 50 | 15 |
| > Tb | 159 | | ug/L | | | 338862 | 337975 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 55 | 91 | 119 | 12 |
| Pb | 208 | 0.001 | ug/L | 0.002 | 119 | 506 | 545 | 8 |
| Bi | 209 | | ug/L | | | 237757 | 238003 | 0 |
| Th | 232 | 0.009 | ug/L | 0.002 | 17 | 538 | 903 | 6 |
| [U | 238 | 0.003 | ug/L | 0.001 | 35 | 44 | 172 | 25 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:05:28

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 363487 | 0 |
| [Be | 9 | 52.215 | ug/L | 0.440 | 0 | 1 | 18408 | 0 |
| C | 13 | | mg/L | | | 3795 | 3241 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2266181 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 205263 | 0 |
| V-1 | 51 | 50.849 | ug/L | 0.113 | 0 | 1772 | 493230 | 0 |
| V | 51 | 50.969 | ug/L | 0.078 | 0 | 427 | 505035 | 0 |
| Cr | 52 | 51.134 | ug/L | 0.297 | 0 | 5532 | 452440 | 0 |
| Cr | 53 | 51.469 | ug/L | 0.356 | 0 | 195 | 54900 | 1 |
| Mn | 55 | 50.993 | ug/L | 0.098 | 0 | 1844 | 791967 | 0 |
| Co | 59 | 52.018 | ug/L | 0.219 | 0 | 132 | 633065 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 310294 | 0 |
| Ni | 60 | 51.141 | ug/L | 0.184 | 0 | 475 | 133318 | 0 |
| Ni | 62 | 51.152 | ug/L | 0.141 | 0 | 133 | 20234 | 0 |
| Cu | 63 | 51.617 | ug/L | 0.141 | 0 | 391 | 304792 | 0 |
| Cu | 65 | 51.624 | ug/L | 0.298 | 0 | 136 | 145704 | 0 |
| Zn | 66 | 52.191 | ug/L | 0.115 | 0 | 997 | 101151 | 0 |
| Zn | 67 | 52.063 | ug/L | 0.662 | 1 | 177 | 16984 | 0 |
| Zn | 68 | 52.030 | ug/L | 0.076 | 0 | 5761 | 76141 | 0 |
| As-1 | 75 | 51.358 | ug/L | 0.121 | 0 | -137 | 79366 | 0 |
| As | 75 | 50.794 | ug/L | 0.139 | 0 | 6757 | 86781 | 0 |
| Se | 82 | 51.742 | ug/L | 0.346 | 0 | -12 | 8269 | 0 |
| Se | 78 | 49.586 | ug/L | 0.367 | 0 | 7072 | 28663 | 0 |
| Mo | 98 | 51.261 | ug/L | 0.559 | 1 | 26 | 226741 | 0 |
| Y | 89 | | ug/L | | | 195744 | 195263 | 0 |
| Kr | 83 | | ug/L | | | 92 | 106 | 0 |
| [> In | 115 | | ug/L | | | 326340 | 325924 | 0 |
| Ag | 107 | 51.817 | ug/L | 0.365 | 0 | 47 | 522711 | 0 |
| Cd | 111 | 51.110 | ug/L | 0.373 | 0 | 161 | 130899 | 1 |
| Cd | 114 | 50.777 | ug/L | 0.275 | 0 | 26 | 318599 | 0 |
| Sb | 121 | 50.718 | ug/L | 0.303 | 0 | 125 | 457753 | 0 |
| Sb | 123 | 50.423 | ug/L | 0.370 | 0 | 92 | 352176 | 0 |
| Ba | 135 | 50.795 | ug/L | 0.365 | 0 | 33 | 117124 | 0 |
| Ba | 137 | 51.101 | ug/L | 0.348 | 0 | 66 | 201828 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 336377 | 0 |
| Tl | 205 | 52.216 | ug/L | 0.557 | 1 | 91 | 1006862 | 0 |
| Pb | 208 | 52.135 | ug/L | 0.379 | 0 | 506 | 1406075 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 235384 | 0 |
| Th | 232 | 50.854 | ug/L | 2.013 | 3 | 538 | 2034254 | 3 |
| U | 238 | 52.338 | ug/L | 0.540 | 1 | 44 | 2203915 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:12:55

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 347908 | 4 |
| [Be | 9 | 0.003 | ug/L | 0.004 | 135 | 1 | 2 | 50 |
| C | 13 | | mg/L | | | 3795 | 3706 | 3 |
| Cl | 37 | | mg/L | | | 2323713 | 2311383 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 199471 | 1 |
| [V-1 | 51 | 0.011 | ug/L | 0.006 | 56 | 1772 | 1829 | 1 |
| [V | 51 | 0.001 | ug/L | 0.001 | 91 | 427 | 428 | 0 |
| [Cr | 52 | 0.016 | ug/L | 0.002 | 13 | 5532 | 5518 | 2 |
| [Cr | 53 | -0.014 | ug/L | 0.017 | 123 | 195 | 175 | 12 |
| [Mn | 55 | -0.010 | ug/L | 0.002 | 20 | 1844 | 1641 | 0 |
| [Co | 59 | 0.004 | ug/L | 0.001 | 20 | 132 | 173 | 7 |
| [> Ge | 72 | | ug/L | | | 307391 | 303927 | 1 |
| [Ni | 60 | -0.003 | ug/L | 0.015 | 426 | 475 | 460 | 6 |
| [Ni | 62 | -0.038 | ug/L | 0.002 | 5 | 133 | 117 | 2 |
| [Cu | 63 | -0.004 | ug/L | 0.005 | 124 | 391 | 365 | 7 |
| [Cu | 65 | -0.000 | ug/L | 0.006 | 1623 | 136 | 134 | 12 |
| [Zn | 66 | 0.004 | ug/L | 0.021 | 503 | 997 | 994 | 4 |
| [Zn | 67 | 0.049 | ug/L | 0.046 | 94 | 177 | 190 | 6 |
| [Zn | 68 | 0.045 | ug/L | 0.135 | 298 | 5761 | 5755 | 1 |
| [As-1 | 75 | 0.021 | ug/L | 0.034 | 163 | -137 | -104 | 47 |
| [As | 75 | 0.103 | ug/L | 0.063 | 61 | 6757 | 6839 | 0 |
| [Se | 82 | -0.025 | ug/L | 0.040 | 159 | -12 | -16 | 36 |
| [Se | 78 | 0.344 | ug/L | 0.276 | 80 | 7072 | 7137 | 0 |
| [Mo | 98 | 0.011 | ug/L | 0.005 | 46 | 26 | 72 | 30 |
| [Y | 89 | | ug/L | | | 195744 | 193312 | 2 |
| [Kr | 83 | | ug/L | | | 92 | 102 | 4 |
| [> In | 115 | | ug/L | | | 326340 | 321174 | 1 |
| [Ag | 107 | 0.003 | ug/L | 0.001 | 34 | 47 | 72 | 12 |
| [Cd | 111 | 0.002 | ug/L | 0.003 | 201 | 161 | 162 | 3 |
| [Cd | 114 | 0.001 | ug/L | 0.002 | 163 | 26 | 34 | 41 |
| [Sb | 121 | 0.019 | ug/L | 0.007 | 37 | 125 | 292 | 22 |
| [Sb | 123 | 0.019 | ug/L | 0.007 | 36 | 92 | 220 | 22 |
| [Ba | 135 | 0.001 | ug/L | 0.002 | 131 | 33 | 35 | 10 |
| [Ba | 137 | -0.001 | ug/L | 0.002 | 146 | 66 | 59 | 15 |
| [> Tb | 159 | | ug/L | | | 338862 | 333394 | 2 |
| [Tl | 205 | 0.001 | ug/L | 0.000 | 20 | 91 | 112 | 5 |
| [Pb | 208 | 0.003 | ug/L | 0.000 | 3 | 506 | 571 | 2 |
| [Bi | 209 | | ug/L | | | 237757 | 235137 | 1 |
| [Th | 232 | 0.030 | ug/L | 0.006 | 20 | 538 | 1732 | 15 |
| [U | 238 | 0.003 | ug/L | 0.002 | 50 | 44 | 188 | 40 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:20:20

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 353550 | 0 |
| [Be | 9 | 0.208 | ug/L | 0.031 | 14 | 1 | 72 | 13 |
| C | 13 | | mg/L | | | 3795 | 2577 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2308100 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 202523 | 1 |
| V-1 | 51 | 0.200 | ug/L | 0.006 | 3 | 1772 | 3655 | 0 |
| V | 51 | 0.199 | ug/L | 0.007 | 3 | 427 | 2368 | 1 |
| Cr | 52 | 0.505 | ug/L | 0.007 | 1 | 5532 | 9816 | 1 |
| Cr | 53 | 0.482 | ug/L | 0.007 | 1 | 195 | 697 | 1 |
| Mn | 55 | 0.488 | ug/L | 0.006 | 1 | 1844 | 9284 | 1 |
| [Co | 59 | 0.218 | ug/L | 0.005 | 2 | 132 | 2750 | 2 |
| [> Ge | 72 | | ug/L | | | 307391 | 306696 | 0 |
| Ni | 60 | 0.506 | ug/L | 0.017 | 3 | 475 | 1774 | 3 |
| Ni | 62 | 0.509 | ug/L | 0.015 | 2 | 133 | 331 | 0 |
| Cu | 63 | 0.514 | ug/L | 0.012 | 2 | 391 | 3387 | 1 |
| Cu | 65 | 0.519 | ug/L | 0.010 | 1 | 136 | 1582 | 2 |
| Zn | 66 | 3.962 | ug/L | 0.024 | 0 | 997 | 8509 | 1 |
| Zn | 67 | 3.598 | ug/L | 0.125 | 3 | 177 | 1325 | 3 |
| Zn | 68 | 3.997 | ug/L | 0.076 | 1 | 5761 | 11088 | 0 |
| As-1 | 75 | 0.248 | ug/L | 0.008 | 3 | -137 | 242 | 4 |
| As | 75 | 0.241 | ug/L | 0.060 | 25 | 6757 | 7116 | 0 |
| Se | 82 | 0.566 | ug/L | 0.043 | 7 | -12 | 76 | 8 |
| Se | 78 | 0.587 | ug/L | 0.221 | 37 | 7072 | 7307 | 0 |
| [Mo | 98 | 0.200 | ug/L | 0.009 | 4 | 26 | 898 | 3 |
| Y | 89 | | ug/L | | | 195744 | 195157 | 1 |
| Kr | 83 | | ug/L | | | 92 | 103 | 6 |
| [> In | 115 | | ug/L | | | 326340 | 326467 | 0 |
| Ag | 107 | 0.199 | ug/L | 0.004 | 2 | 47 | 2061 | 2 |
| Cd | 111 | 0.205 | ug/L | 0.002 | 1 | 161 | 687 | 1 |
| Cd | 114 | 0.212 | ug/L | 0.005 | 2 | 26 | 1359 | 3 |
| Sb | 121 | 0.197 | ug/L | 0.005 | 2 | 125 | 1908 | 1 |
| Sb | 123 | 0.197 | ug/L | 0.005 | 2 | 92 | 1472 | 3 |
| Ba | 135 | 0.504 | ug/L | 0.028 | 5 | 33 | 1197 | 6 |
| [Ba | 137 | 0.508 | ug/L | 0.000 | 0 | 66 | 2075 | 1 |
| [> Tb | 159 | | ug/L | | | 338862 | 337705 | 0 |
| Tl | 205 | 0.214 | ug/L | 0.001 | 0 | 91 | 4237 | 0 |
| Pb | 208 | 1.027 | ug/L | 0.005 | 0 | 506 | 28312 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 239879 | 0 |
| Th | 232 | 0.196 | ug/L | 0.003 | 1 | 538 | 8393 | 0 |
| [U | 238 | 0.199 | ug/L | 0.003 | 1 | 44 | 8444 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:27:45

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 439997 ✓ | 2 |
| [Be | 9 | 0.001 | ug/L | 0.005 | 426 | 1 | 2 | 86 |
| C | 13 | | mg/L | | | 3795 | 17260 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 3540833 | 1 |
| [> Sc | 45 | | ug/L | | | 205072 | 221709 ✓ | 1 |
| V-1 | 51 | -0.073 | ug/L | 0.044 | 60 | 1772 | 1150 | 39 |
| V | 51 | 0.889 | ug/L | 0.016 | 1 | 427 | 9970 | 2 |
| Cr | 52 | 0.529 | ug/L | 0.004 | 0 | 5532 | 10971 | 1 |
| Cr | 53 | 3.352 | ug/L | 0.170 | 5 | 195 | 4060 | 5 |
| Mn | 55 | 0.805 | ug/L | 0.013 | 1 | 1844 | 15470 | 0 |
| Co | 59 | 0.046 | ug/L | 0.002 | 3 | 132 | 747 | 3 |
| [> Ge | 72 | | ug/L | | | 307391 | 314122 ✓ | 0 |
| Ni | 60 | 0.761 | ug/L | 0.054 | 7 | 475 | 2486 | 5 |
| Ni | 62 | 3.791 | ug/L | 0.030 | 0 | 133 | 1644 | 0 |
| Cu | 63 | 0.525 | ug/L | 0.009 | 1 | 391 | 3536 | 1 |
| Cu | 65 | 0.710 | ug/L | 0.026 | 3 | 136 | 2165 | 3 |
| Zn | 66 | 0.847 | ug/L | 0.010 | 1 | 997 | 2663 | 0 |
| Zn | 67 | 1.418 | ug/L | 0.119 | 8 | 177 | 644 | 6 |
| Zn | 68 | -0.199 | ug/L | 0.052 | 26 | 5761 | 5615 | 1 |
| As-1 | 75 | 0.079 | ug/L | 0.024 | 30 | -137 | -17 | 220 |
| As | 75 | -0.194 | ug/L | 0.033 | 17 | 6757 | 6595 | 0 |
| Se | 82 | 0.117 | ug/L | 0.039 | 33 | -12 | 5 | 105 |
| Se | 78 | -0.824 | ug/L | 0.173 | 20 | 7072 | 6864 | 1 |
| Mo | 98 | 402.583 ✓ | ug/L | 1.190 | 0 | 26 | 1802568 | 0 |
| Y | 89 | | ug/L | | | 195744 | 199391 | 0 |
| Kr | 83 | | ug/L | | | 92 | 102 | 4 |
| [> In | 115 | | ug/L | | | 326340 | 333477 ✓ | 0 |
| Ag | 107 | 0.026 | ug/L | 0.002 | 7 | 47 | 317 | 5 |
| Cd | 111 | 0.104 | ug/L | 0.007 | 6 | 161 | 436 | 4 |
| Cd | 114 | 0.666 | ug/L | 0.014 | 2 | 26 | 4299 | 1 |
| Sb | 121 | 0.038 | ug/L | 0.002 | 5 | 125 | 475 | 4 |
| Sb | 123 | 0.040 | ug/L | 0.002 | 4 | 92 | 381 | 4 |
| Ba | 135 | 0.028 | ug/L | 0.002 | 5 | 33 | 101 | 4 |
| Ba | 137 | 0.018 | ug/L | 0.002 | 13 | 66 | 141 | 6 |
| [> Tb | 159 | | ug/L | | | 338862 | 345371 ✓ | 0 |
| Tl | 205 | 0.005 | ug/L | 0.001 | 18 | 91 | 198 | 9 |
| Pb | 208 | 0.036 | ug/L | 0.001 | 3 | 506 | 1520 | 1 |
| Bi | 209 | | ug/L | | | 237757 | 226485 | 0 |
| Th | 232 | 0.008 | ug/L | 0.005 | 59 | 538 | 882 | 22 |
| U | 238 | -0.000 | ug/L | 0.000 | 352 | 44 | 44 | 10 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:35:31

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 368511 | 453371 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.003 | 366 | 1 | 1 | 86 |
| C | 13 | | mg/L | | | 3795 | 18069 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 3497353 | 0 |
| > Sc | 45 | | ug/L | | | 205072 | 220916 | 0 |
| V-1 | 51 | -0.496 | ug/L | 0.045 | 9 | 1772 | -3252 | 14 |
| V | 51 | 0.885 | ug/L | 0.012 | 1 | 427 | 9894 | 1 |
| Cr | 52 | 20.501 | ug/L | 0.068 | 0 | 5532 | 198802 | 0 |
| Cr | 53 | 23.130 | ug/L | 0.093 | 0 | 195 | 26669 | 0 |
| Mn | 55 | 20.681 | ug/L | 0.070 | 0 | 1844 | 346859 | 0 |
| Co | 59 | 19.585 | ug/L | 0.141 | 0 | 132 | 256616 | 0 |
| > Ge | 72 | | ug/L | | | 307391 | 307917 | 0 |
| Ni | 60 | 20.873 | ug/L | 0.309 | 1 | 475 | 54274 | 0 |
| Ni | 62 | 23.814 | ug/L | 0.149 | 0 | 133 | 9419 | 0 |
| Cu | 63 | 20.356 | ug/L | 0.166 | 0 | 391 | 119517 | 0 |
| Cu | 65 | 20.456 | ug/L | 0.064 | 0 | 136 | 57376 | 0 |
| Zn | 66 | 20.730 | ug/L | 0.186 | 0 | 997 | 40471 | 0 |
| Zn | 67 | 19.399 | ug/L | 0.245 | 1 | 177 | 6391 | 1 |
| Zn | 68 | 19.118 | ug/L | 0.073 | 0 | 5761 | 31414 | 0 |
| As-1 | 75 | 20.057 | ug/L | 0.132 | 0 | -137 | 30673 | 0 |
| As | 75 | 19.456 | ug/L | 0.120 | 0 | 6757 | 37161 | 0 |
| Se | 82 | 0.112 | ug/L | 0.050 | 44 | -12 | 5 | 156 |
| Se | 78 | -0.796 | ug/L | 0.052 | 6 | 7072 | 6741 | 0 |
| [Mo | 98 | 404.901 | ug/L | 0.960 | 0 | 26 | 1777125 | 0 |
| Y | 89 | | ug/L | | | 195744 | 196211 | 0 |
| Kr | 83 | | ug/L | | | 92 | 103 | 8 |
| > In | 115 | | ug/L | | | 326340 | 328980 | 0 |
| Ag | 107 | 17.681 | ug/L | 0.040 | 0 | 47 | 180069 | 0 |
| Cd | 111 | 19.838 | ug/L | 0.139 | 0 | 161 | 51381 | 0 |
| Cd | 114 | 20.271 | ug/L | 0.063 | 0 | 26 | 128401 | 0 |
| Sb | 121 | 0.036 | ug/L | 0.002 | 5 | 125 | 456 | 3 |
| Sb | 123 | 0.041 | ug/L | 0.003 | 7 | 92 | 380 | 5 |
| Ba | 135 | 0.031 | ug/L | 0.005 | 15 | 33 | 106 | 10 |
| Ba | 137 | 0.025 | ug/L | 0.005 | 18 | 66 | 166 | 11 |
| > Tb | 159 | | ug/L | | | 338862 | 344414 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.001 | 5 | 91 | 320 | 4 |
| Pb | 208 | 0.040 | ug/L | 0.001 | 2 | 506 | 1620 | 1 |
| Bi | 209 | | ug/L | | | 237757 | 221908 | 0 |
| Th | 232 | -0.003 | ug/L | 0.003 | 91 | 538 | 432 | 24 |
| [U | 238 | -0.000 | ug/L | 0.000 | 76 | 44 | 33 | 26 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:43:16

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 395361 | 0 |
| [Be | 9 | 193.441 | ug/L | 1.591 | 0 | 1 | 74170 | 0 |
| C | 13 | | mg/L | | | 3795 | 3730 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 2224711 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 207512 | 0 |
| [V-1 | 51 | 200.826 | ug/L | 3.459 | 1 | 1772 | 1964220 | 2 |
| [V | 51 | 200.894 | ug/L | 3.318 | 1 | 427 | 2011308 | 2 |
| [Cr | 52 | 197.505 | ug/L | 1.090 | 0 | 5532 | 1750685 | 0 |
| [Cr | 53 | 197.942 | ug/L | 1.019 | 0 | 195 | 212886 | 0 |
| [Mn | 55 | 204.866 | ug/L | 1.012 | 0 | 1844 | 3211004 | 1 |
| [Co | 59 | 201.559 | ug/L | 1.399 | 0 | 132 | 2479598 | 1 |
| [> Ge | 72 | | ug/L | | | 307391 | 301893 | 0 |
| [Ni | 60 | 195.682 | ug/L | 0.646 | 0 | 475 | 494992 | 1 |
| [Ni | 62 | 194.049 | ug/L | 1.104 | 0 | 133 | 74314 | 1 |
| [Cu | 63 | 192.125 | ug/L | 0.523 | 0 | 391 | 1102735 | 1 |
| [Cu | 65 | 192.604 | ug/L | 0.547 | 0 | 136 | 528543 | 1 |
| [Zn | 66 | 196.694 | ug/L | 0.359 | 0 | 997 | 368177 | 0 |
| [Zn | 67 | 195.674 | ug/L | 0.293 | 0 | 177 | 61627 | 1 |
| [Zn | 68 | 195.139 | ug/L | 0.318 | 0 | 5761 | 262268 | 0 |
| [As-1 | 75 | 195.180 | ug/L | 0.072 | 0 | -137 | 293835 | 0 |
| [As | 75 | 193.662 | ug/L | 0.189 | 0 | 6757 | 303246 | 0 |
| [Se | 82 | 192.823 | ug/L | 0.730 | 0 | -12 | 30017 | 0 |
| [Se | 78 | 187.109 | ug/L | 0.116 | 0 | 7072 | 85968 | 1 |
| [Mo | 98 | 200.562 | ug/L | 1.241 | 0 | 26 | 863071 | 1 |
| [Y | 89 | | ug/L | | | 195744 | 189259 | 1 |
| [Kr | 83 | | ug/L | | | 92 | 139 | 5 |
| [> In | 115 | | ug/L | | | 326340 | 316036 | 1 |
| [Ag | 107 | 193.147 | ug/L | 0.607 | 0 | 47 | 1889193 | 1 |
| [Cd | 111 | 195.764 | ug/L | 0.607 | 0 | 161 | 485707 | 1 |
| [Cd | 114 | 195.697 | ug/L | 0.841 | 0 | 26 | 1190580 | 1 |
| [Sb | 121 | 199.194 | ug/L | 1.139 | 0 | 125 | 1742932 | 1 |
| [Sb | 123 | 198.886 | ug/L | 0.646 | 0 | 92 | 1346713 | 1 |
| [Ba | 135 | 195.889 | ug/L | 0.614 | 0 | 33 | 437905 | 1 |
| [Ba | 137 | 197.258 | ug/L | 0.567 | 0 | 66 | 755267 | 1 |
| [> Tb | 159 | | ug/L | | | 338862 | 324653 | 1 |
| [Tl | 205 | 209.530 | ug/L | 3.494 | 1 | 91 | 3899181 | 1 |
| [Pb | 208 | 204.684 | ug/L | 2.300 | 1 | 506 | 5326462 | 1 |
| [Bi | 209 | | ug/L | | | 237757 | 217275 | 1 |
| [Th | 232 | 207.127 | ug/L | 2.971 | 1 | 538 | 7995000 | 1 |
| [U | 238 | 205.207 | ug/L | 3.134 | 1 | 44 | 8339983 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:51:00

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 345370 | 1 |
| [Be | 9 | 300.543 | ug/L | 3.484 | 1 | 1 | 100656 | 0 |
| C | 13 | | mg/L | | | 3795 | 3607 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2168300 | 1 |
| [> Sc | 45 | | ug/L | | | 205072 | 192974 | 1 |
| [V-1 | 51 | 314.648 | ug/L | 1.475 | 0 | 1772 | 2860586 | 0 |
| [V | 51 | 310.675 | ug/L | 1.360 | 0 | 427 | 2891961 | 0 |
| [Cr | 52 | 310.514 | ug/L | 0.481 | 0 | 5532 | 2556608 | 1 |
| [Cr | 53 | 298.974 | ug/L | 0.408 | 0 | 195 | 298930 | 1 |
| [Mn | 55 | 307.008 | ug/L | 0.789 | 0 | 1844 | 4473973 | 1 |
| [Co | 59 | 305.960 | ug/L | 1.081 | 0 | 132 | 3500076 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 293896 | 0 |
| [Ni | 60 | 282.856 | ug/L | 1.967 | 0 | 475 | 696345 | 0 |
| [Ni | 62 | 282.596 | ug/L | 1.272 | 0 | 133 | 105299 | 0 |
| [Cu | 63 | 280.356 | ug/L | 0.794 | 0 | 391 | 1566328 | 0 |
| [Cu | 65 | 281.728 | ug/L | 0.582 | 0 | 136 | 752564 | 0 |
| [Zn | 66 | 281.008 | ug/L | 1.544 | 0 | 997 | 511667 | 0 |
| [Zn | 67 | 281.409 | ug/L | 2.764 | 0 | 177 | 86206 | 1 |
| [Zn | 68 | 279.500 | ug/L | 1.047 | 0 | 5761 | 363323 | 0 |
| [As-1 | 75 | 286.869 | ug/L | 0.546 | 0 | -137 | 420494 | 0 |
| [As | 75 | 285.018 | ug/L | 0.455 | 0 | 6757 | 431426 | 0 |
| [Se | 82 | 277.111 | ug/L | 0.977 | 0 | -12 | 42001 | 0 |
| [Se | 78 | 270.548 | ug/L | 0.536 | 0 | 7072 | 117996 | 0 |
| [Mo | 98 | 297.972 | ug/L | 0.489 | 0 | 26 | 1248274 | 0 |
| [Y | 89 | | ug/L | | | 195744 | 179925 | 0 |
| [Kr | 83 | | ug/L | | | 92 | 169 | 4 |
| [> In | 115 | | ug/L | | | 326340 | 297043 | 0 |
| [Ag | 107 | 306.216 | ug/L | 0.787 | 0 | 47 | 2815124 | 0 |
| [Cd | 111 | 292.924 | ug/L | 1.192 | 0 | 161 | 683018 | 0 |
| [Cd | 114 | 291.267 | ug/L | 1.613 | 0 | 26 | 1665490 | 0 |
| [Sb | 121 | 315.094 | ug/L | 0.864 | 0 | 125 | 2591330 | 0 |
| [Sb | 123 | 298.863 | ug/L | 1.377 | 0 | 92 | 1902059 | 0 |
| [Ba | 135 | 298.049 | ug/L | 1.710 | 0 | 33 | 626208 | 0 |
| [Ba | 137 | 298.619 | ug/L | 2.847 | 0 | 66 | 1074626 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 299425 | 0 |
| [Tl | 205 | 330.016 | ug/L | 3.339 | 1 | 91 | 5664039 | 0 |
| [Pb | 208 | 321.781 | ug/L | 3.266 | 1 | 506 | 7708129 | 0 |
| [Bi | 209 | | ug/L | | | 237757 | 201988 | 0 |
| [Th | 232 | 328.920 | ug/L | 5.408 | 1 | 538 | 11708712 | 0 |
| [U | 238 | 324.682 | ug/L | 5.476 | 1 | 44 | 12169000 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 11:58:46

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 384370 | 0 |
| [Be | 9 | 50.662 | ug/L | 0.543 | 1 | 1 | 18886 | 0 |
| C | 13 | | mg/L | | | 3795 | 3419 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2270593 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 208152 | 0 |
| V-1 | 51 | 50.573 | ug/L | 0.185 | 0 | 1772 | 497467 | 0 |
| V | 51 | 50.664 | ug/L | 0.092 | 0 | 427 | 509079 | 0 |
| Cr | 52 | 50.792 | ug/L | 0.249 | 0 | 5532 | 455781 | 0 |
| Cr | 53 | 51.046 | ug/L | 0.278 | 0 | 195 | 55216 | 0 |
| Mn | 55 | 50.822 | ug/L | 0.098 | 0 | 1844 | 800425 | 0 |
| [Co | 59 | 50.911 | ug/L | 0.204 | 0 | 132 | 628318 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 305521 | 0 |
| Ni | 60 | 51.682 | ug/L | 0.208 | 0 | 475 | 132648 | 0 |
| Ni | 62 | 51.256 | ug/L | 0.613 | 1 | 133 | 19962 | 0 |
| Cu | 63 | 51.529 | ug/L | 0.224 | 0 | 391 | 299587 | 0 |
| Cu | 65 | 51.566 | ug/L | 0.402 | 0 | 136 | 143299 | 0 |
| Zn | 66 | 52.799 | ug/L | 0.523 | 0 | 997 | 100740 | 0 |
| Zn | 67 | 52.435 | ug/L | 0.739 | 1 | 177 | 16840 | 0 |
| Zn | 68 | 52.007 | ug/L | 0.381 | 0 | 5761 | 74937 | 0 |
| As-1 | 75 | 51.048 | ug/L | 0.432 | 0 | -137 | 77670 | 0 |
| As | 75 | 50.512 | ug/L | 0.463 | 0 | 6757 | 85006 | 0 |
| Se | 82 | 51.286 | ug/L | 0.237 | 0 | -12 | 8070 | 0 |
| Se | 78 | 49.317 | ug/L | 0.289 | 0 | 7072 | 28107 | 0 |
| [Mo | 98 | 51.542 | ug/L | 0.129 | 0 | 26 | 224481 | 0 |
| Y | 89 | | ug/L | | | 195744 | 194437 | 0 |
| Kr | 83 | | ug/L | | | 92 | 118 | 3 |
| [> In | 115 | | ug/L | | | 326340 | 325131 | 0 |
| Ag | 107 | 51.326 | ug/L | 0.088 | 0 | 47 | 516516 | 0 |
| Cd | 111 | 50.588 | ug/L | 0.413 | 0 | 161 | 129245 | 0 |
| Cd | 114 | 51.003 | ug/L | 0.352 | 0 | 26 | 319240 | 0 |
| Sb | 121 | 50.819 | ug/L | 0.250 | 0 | 125 | 457560 | 0 |
| Sb | 123 | 50.622 | ug/L | 0.073 | 0 | 92 | 352720 | 0 |
| Ba | 135 | 50.270 | ug/L | 0.227 | 0 | 33 | 115633 | 0 |
| [Ba | 137 | 50.153 | ug/L | 0.180 | 0 | 66 | 197606 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 332915 | 0 |
| Tl | 205 | 51.833 | ug/L | 0.550 | 1 | 91 | 989182 | 0 |
| Pb | 208 | 51.878 | ug/L | 0.367 | 0 | 506 | 1384752 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 232153 | 0 |
| Th | 232 | 49.854 | ug/L | 0.549 | 1 | 538 | 1973713 | 0 |
| [U | 238 | 52.533 | ug/L | 0.379 | 0 | 44 | 2189333 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 12:06:14

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 390621 | 0 |
| [Be | 9 | 0.001 | ug/L | 0.005 | 616 | 1 | 2 | 91 |
| C | 13 | | mg/L | | | 3795 | 3763 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2345359 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 211209 | 0 |
| V-1 | 51 | 0.001 | ug/L | 0.003 | 606 | 1772 | 1830 | 1 |
| V | 51 | 0.007 | ug/L | 0.001 | 8 | 427 | 512 | 0 |
| Cr | 52 | -0.003 | ug/L | 0.012 | 437 | 5532 | 5672 | 1 |
| Cr | 53 | 0.017 | ug/L | 0.003 | 17 | 195 | 219 | 1 |
| Mn | 55 | -0.027 | ug/L | 0.002 | 7 | 1844 | 1472 | 1 |
| [Co | 59 | 0.011 | ug/L | 0.001 | 7 | 132 | 267 | 3 |
| [> Ge | 72 | | ug/L | | | 307391 | 305547 | 0 |
| Ni | 60 | -0.047 | ug/L | 0.008 | 16 | 475 | 352 | 5 |
| Ni | 62 | -0.049 | ug/L | 0.035 | 72 | 133 | 114 | 12 |
| Cu | 63 | -0.005 | ug/L | 0.003 | 64 | 391 | 360 | 4 |
| Cu | 65 | -0.000 | ug/L | 0.002 | 642 | 136 | 135 | 3 |
| Zn | 66 | -0.003 | ug/L | 0.011 | 352 | 997 | 985 | 1 |
| Zn | 67 | 0.026 | ug/L | 0.025 | 97 | 177 | 184 | 3 |
| Zn | 68 | -0.168 | ug/L | 0.063 | 37 | 5761 | 5503 | 1 |
| As-1 | 75 | 0.060 | ug/L | 0.027 | 44 | -137 | -45 | 91 |
| As | 75 | -0.090 | ug/L | 0.064 | 71 | 6757 | 6577 | 1 |
| Se | 82 | 0.001 | ug/L | 0.039 | 3045 | -12 | -12 | 49 |
| Se | 78 | -0.429 | ug/L | 0.167 | 38 | 7072 | 6846 | 0 |
| [Mo | 98 | 0.021 | ug/L | 0.003 | 12 | 26 | 116 | 10 |
| Y | 89 | | ug/L | | | 195744 | 196976 | 0 |
| Kr | 83 | | ug/L | | | 92 | 109 | 3 |
| [> In | 115 | | ug/L | | | 326340 | 330883 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 14 | 47 | 102 | 7 |
| Cd | 111 | 0.005 | ug/L | 0.005 | 92 | 161 | 176 | 6 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 32 | 26 | 40 | 10 |
| Sb | 121 | 0.057 | ug/L | 0.007 | 11 | 125 | 650 | 9 |
| Sb | 123 | 0.055 | ug/L | 0.006 | 10 | 92 | 481 | 8 |
| Ba | 135 | 0.001 | ug/L | 0.003 | 345 | 33 | 35 | 19 |
| [Ba | 137 | 0.000 | ug/L | 0.003 | 3979 | 66 | 67 | 18 |
| [> Tb | 159 | | ug/L | | | 338862 | 337221 | 0 |
| Tl | 205 | 0.006 | ug/L | 0.001 | 22 | 91 | 202 | 12 |
| Pb | 208 | 0.002 | ug/L | 0.000 | 14 | 506 | 570 | 1 |
| Bi | 209 | | ug/L | | | 237757 | 238423 | 0 |
| Th | 232 | 0.039 | ug/L | 0.007 | 17 | 538 | 2118 | 14 |
| [U | 238 | 0.005 | ug/L | 0.001 | 14 | 44 | 239 | 12 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 12:19:34

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

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| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 426690 | 2 |
| [Be | 9 | 0.001 | ug/L | 0.008 | 595 | 1 | 2 | 132 |
| C | 13 | | mg/L | | | 3795 | 5575 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2299704 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 225779 | 1 |
| V-1 | 51 | 0.029 | ug/L | 0.001 | 1 | 1772 | 2257 | 1 |
| V | 51 | 0.024 | ug/L | 0.002 | 6 | 427 | 736 | 2 |
| Cr | 52 | 0.042 | ug/L | 0.013 | 30 | 5532 | 6490 | 1 |
| Cr | 53 | 0.028 | ug/L | 0.011 | 40 | 195 | 247 | 4 |
| Mn | 55 | -0.036 | ug/L | 0.005 | 13 | 1844 | 1410 | 4 |
| [Co | 59 | 0.001 | ug/L | 0.001 | 46 | 132 | 164 | 5 |
| [> Ge | 72 | | ug/L | | | 307391 | 322424 | 1 |
| Ni | 60 | -0.050 | ug/L | 0.007 | 13 | 475 | 363 | 3 |
| Ni | 62 | -0.052 | ug/L | 0.008 | 15 | 133 | 119 | 1 |
| Cu | 63 | 0.014 | ug/L | 0.005 | 33 | 391 | 497 | 4 |
| Cu | 65 | 0.019 | ug/L | 0.002 | 11 | 136 | 200 | 2 |
| Zn | 66 | -0.029 | ug/L | 0.026 | 89 | 997 | 987 | 4 |
| Zn | 67 | 0.016 | ug/L | 0.062 | 395 | 177 | 191 | 9 |
| Zn | 68 | -0.400 | ug/L | 0.107 | 26 | 5761 | 5479 | 1 |
| As-1 | 75 | 0.054 | ug/L | 0.018 | 32 | -137 | -56 | 48 |
| As | 75 | -0.307 | ug/L | 0.075 | 24 | 6757 | 6585 | 0 |
| Se | 82 | 0.141 | ug/L | 0.045 | 32 | -12 | 10 | 74 |
| Se | 78 | -1.158 | ug/L | 0.290 | 25 | 7072 | 6894 | 0 |
| [Mo | 98 | 0.024 | ug/L | 0.001 | 5 | 26 | 139 | 2 |
| Y | 89 | | ug/L | | | 195744 | 211661 | 0 |
| Kr | 83 | | ug/L | | | 92 | 98 | 9 |
| [> In | 115 | | ug/L | | | 326340 | 351484 | 1 |
| Ag | 107 | -0.000 | ug/L | 0.001 | 363 | 47 | 47 | 22 |
| Cd | 111 | 0.001 | ug/L | 0.003 | 458 | 161 | 175 | 3 |
| Cd | 114 | -0.000 | ug/L | 0.001 | 255 | 26 | 25 | 28 |
| Sb | 121 | 0.013 | ug/L | 0.002 | 13 | 125 | 257 | 7 |
| Sb | 123 | 0.012 | ug/L | 0.003 | 25 | 92 | 189 | 11 |
| Ba | 135 | 0.026 | ug/L | 0.007 | 25 | 33 | 100 | 15 |
| [Ba | 137 | 0.025 | ug/L | 0.004 | 15 | 66 | 175 | 10 |
| [> Tb | 159 | | ug/L | | | 338862 | 364310 | 2 |
| Tl | 205 | -0.002 | ug/L | 0.000 | 10 | 91 | 55 | 9 |
| Pb | 208 | 0.013 | ug/L | 0.001 | 4 | 506 | 913 | 1 |
| Bi | 209 | | ug/L | | | 237757 | 253721 | 1 |
| Th | 232 | 0.003 | ug/L | 0.004 | 147 | 538 | 703 | 24 |
| [U | 238 | 0.000 | ug/L | 0.000 | 30 | 44 | 64 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~QS95 MB2SK-REN~~ ²²⁹ ~~SK-REN~~

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 12:26:21

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 443253 | 0 |
| [Be | 9 | 25.172 | ug/L | 0.797 | 3 | -1 | 10821 | 2 |
| [C | 13 | | mg/L | | | 3795 | 6179 | 2 |
| [Cl | 37 | | mg/L | | | 2323713 | 2281072 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 234061 | 0 |
| [V-1 | 51 | 26.012 | ug/L | 0.036 | 0 | 1772 | 288696 | 0 |
| [V | 51 | 26.077 | ug/L | 0.070 | 0 | 427 | 294880 | 0 |
| [Cr | 52 | 26.491 | ug/L | 0.117 | 0 | 5532 | 270328 | 0 |
| [Cr | 53 | 26.653 | ug/L | 0.099 | 0 | 195 | 32524 | 0 |
| [Mn | 55 | 26.409 | ug/L | 0.037 | 0 | 1844 | 468716 | 0 |
| [Co | 59 | 26.871 | ug/L | 0.016 | 0 | 132 | 372989 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 331504 | 0 |
| [Ni | 60 | 27.883 | ug/L | 0.030 | 0 | 475 | 77887 | 0 |
| [Ni | 62 | 27.841 | ug/L | 0.089 | 0 | 133 | 11831 | 0 |
| [Cu | 63 | 28.530 | ug/L | 0.241 | 0 | 391 | 180164 | 0 |
| [Cu | 65 | 28.672 | ug/L | 0.132 | 0 | 136 | 86522 | 0 |
| [Zn | 66 | 85.247 | ug/L | 0.168 | 0 | 997 | 175829 | 0 |
| [Zn | 67 | 78.431 | ug/L | 0.746 | 0 | 177 | 27238 | 0 |
| [Zn | 68 | 83.188 | ug/L | 0.498 | 0 | 5761 | 126336 | 0 |
| [As-1 | 75 | 25.594 | ug/L | 0.056 | 0 | -137 | 42181 | 0 |
| [As | 75 | 25.453 | ug/L | 0.087 | 0 | 6757 | 50095 | 0 |
| [Se | 82 | 80.903 | ug/L | 0.319 | 0 | -12 | 13821 | 0 |
| [Se | 78 | 76.862 | ug/L | 0.404 | 0 | 7072 | 43272 | 0 |
| [Mo | 98 | 0.048 | ug/L | 0.002 | 3 | 26 | 255 | 2 |
| [Y | 89 | | ug/L | | | 195744 | 219369 | 0 |
| [Kr | 83 | | ug/L | | | 92 | 111 | 6 |
| [> In | 115 | | ug/L | | | 326340 | 367423 | 0 |
| [Ag | 107 | 25.700 | ug/L | 0.090 | 0 | 47 | 292290 | 0 |
| [Cd | 111 | 25.680 | ug/L | 0.152 | 0 | 161 | 74230 | 0 |
| [Cd | 114 | 25.702 | ug/L | 0.010 | 0 | 26 | 181819 | 0 |
| [Sb | 121 | 0.020 | ug/L | 0.005 | 25 | 125 | 340 | 14 |
| [Sb | 123 | 0.021 | ug/L | 0.005 | 21 | 92 | 272 | 12 |
| [Ba | 135 | 25.920 | ug/L | 0.119 | 0 | 33 | 67395 | 0 |
| [Ba | 137 | 25.751 | ug/L | 0.045 | 0 | 66 | 114694 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 377297 | 0 |
| [Tl | 205 | 26.726 | ug/L | 0.161 | 0 | 91 | 578103 | 0 |
| [Pb | 208 | 26.833 | ug/L | 0.136 | 0 | 506 | 812002 | 0 |
| [Bi | 209 | | ug/L | | | 237757 | 263397 | 0 |
| [Th | 232 | 25.328 | ug/L | 0.267 | 1 | 538 | 1136711 | 0 |
| [U | 238 | 25.454 | ug/L | 0.225 | 0 | 44 | 1202277 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **QS95 F-L REN**

Sample Dil Factor: 10

Comments:

Sample Date/Time: **Monday, April 19, 2010 12:33:09**

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

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| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 447911 | 1 |
| [Be | 9 | 0.002 | ug/L | 0.004 | 213 | 1 | 2 | 65 |
| C | 13 | | mg/L | | | 3795 | 4491 | 3 |
| Cl | 37 | | mg/L | | | 2323713 | 2306161 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 236300 | 0 |
| V-1 | 51 | 0.003 | ug/L | 0.009 | 256 | 1772 | 2080 | 5 |
| V | 51 | 0.009 | ug/L | 0.001 | 16 | 427 | 591 | 3 |
| Cr | 52 | -0.019 | ug/L | 0.003 | 15 | 5532 | 6179 | 1 |
| Cr | 53 | -0.002 | ug/L | 0.019 | 955 | 195 | 222 | 9 |
| Mn | 55 | -0.042 | ug/L | 0.001 | 2 | 1844 | 1368 | 0 |
| [Co | 59 | 0.002 | ug/L | 0.001 | 41 | 132 | 175 | 5 |
| [> Ge | 72 | | ug/L | | | 307391 | 333805 | 0 |
| Ni | 60 | -0.031 | ug/L | 0.005 | 15 | 475 | 428 | 2 |
| Ni | 62 | -0.046 | ug/L | 0.025 | 54 | 133 | 125 | 8 |
| Cu | 63 | 0.068 | ug/L | 0.003 | 4 | 391 | 857 | 2 |
| Cu | 65 | 0.081 | ug/L | 0.006 | 7 | 136 | 393 | 4 |
| Zn | 66 | 0.009 | ug/L | 0.007 | 77 | 997 | 1101 | 1 |
| Zn | 67 | 0.103 | ug/L | 0.024 | 23 | 177 | 228 | 3 |
| Zn | 68 | -0.544 | ug/L | 0.078 | 14 | 5761 | 5466 | 2 |
| As-1 | 75 | 0.025 | ug/L | 0.031 | 122 | -137 | -107 | 47 |
| As | 75 | -0.493 | ug/L | 0.012 | 2 | 6757 | 6504 | 0 |
| Se | 82 | 0.071 | ug/L | 0.045 | 62 | -12 | -1 | 517 |
| Se | 78 | -1.802 | ug/L | 0.140 | 7 | 7072 | 6838 | 0 |
| [Mo | 98 | 0.013 | ug/L | 0.006 | 45 | 26 | 90 | 31 |
| Y | 89 | | ug/L | | | 195744 | 221100 | 0 |
| Kr | 83 | | ug/L | | | 92 | 100 | 7 |
| [> In | 115 | | ug/L | | | 326340 | 369039 | 0 |
| Ag | 107 | 0.009 | ug/L | 0.001 | 15 | 47 | 152 | 10 |
| Cd | 111 | 0.009 | ug/L | 0.004 | 50 | 161 | 207 | 6 |
| Cd | 114 | 0.001 | ug/L | 0.000 | 34 | 26 | 40 | 8 |
| Sb | 121 | 0.003 | ug/L | 0.001 | 16 | 125 | 174 | 2 |
| Sb | 123 | 0.005 | ug/L | 0.002 | 33 | 92 | 142 | 9 |
| Ba | 135 | 0.025 | ug/L | 0.007 | 27 | 33 | 103 | 17 |
| [Ba | 137 | 0.021 | ug/L | 0.004 | 18 | 66 | 169 | 10 |
| [> Tb | 159 | | ug/L | | | 338862 | 380396 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.002 | 60 | 91 | 163 | 22 |
| Pb | 208 | 0.011 | ug/L | 0.004 | 33 | 506 | 899 | 12 |
| Bi | 209 | | ug/L | | | 237757 | 266782 | 0 |
| Th | 232 | 0.019 | ug/L | 0.000 | 2 | 538 | 1467 | 1 |
| [U | 238 | 0.004 | ug/L | 0.002 | 44 | 44 | 258 | 35 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 12:39:57

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

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| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 467583 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.004 | 237 | 1 | 2 | 65 |
| C | 13 | | mg/L | | | 3795 | 5862 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2263767 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 240162 | 0 |
| V-1 | 51 | 0.011 | ug/L | 0.005 | 43 | 1772 | 2197 | 2 |
| V | 51 | 0.014 | ug/L | 0.002 | 16 | 427 | 662 | 4 |
| Cr | 52 | 0.052 | ug/L | 0.008 | 15 | 5532 | 7011 | 1 |
| Cr | 53 | 0.059 | ug/L | 0.007 | 12 | 195 | 301 | 2 |
| Mn | 55 | -0.019 | ug/L | 0.006 | 29 | 1844 | 1820 | 5 |
| [Co | 59 | 0.002 | ug/L | 0.001 | 29 | 132 | 188 | 5 |
| [> Ge | 72 | | ug/L | | | 307391 | 327938 | 0 |
| Ni | 60 | -0.026 | ug/L | 0.009 | 32 | 475 | 435 | 5 |
| Ni | 62 | -0.081 | ug/L | 0.008 | 10 | 133 | 109 | 2 |
| Cu | 63 | 0.298 | ug/L | 0.009 | 2 | 391 | 2275 | 2 |
| Cu | 65 | 0.292 | ug/L | 0.004 | 1 | 136 | 1016 | 1 |
| Zn | 66 | 0.384 | ug/L | 0.010 | 2 | 997 | 1843 | 0 |
| Zn | 67 | 0.454 | ug/L | 0.092 | 20 | 177 | 344 | 8 |
| Zn | 68 | -0.151 | ug/L | 0.063 | 41 | 5761 | 5931 | 1 |
| As-1 | 75 | 0.055 | ug/L | 0.027 | 49 | -137 | -57 | 77 |
| As | 75 | -0.503 | ug/L | 0.057 | 11 | 6757 | 6373 | 1 |
| Se | 82 | 0.129 | ug/L | 0.011 | 8 | -12 | 8 | 21 |
| Se | 78 | -1.853 | ug/L | 0.095 | 5 | 7072 | 6694 | 0 |
| [Mo | 98 | 0.027 | ug/L | 0.002 | 7 | 26 | 154 | 6 |
| Y | 89 | | ug/L | | | 195744 | 221402 | 0 |
| Kr | 83 | | ug/L | | | 92 | 105 | 6 |
| [> In | 115 | | ug/L | | | 326340 | 370176 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.000 | 5 | 47 | 132 | 3 |
| Cd | 111 | 0.000 | ug/L | 0.005 | 7018 | 161 | 183 | 8 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 553 | 26 | 30 | 13 |
| Sb | 121 | 0.014 | ug/L | 0.000 | 1 | 125 | 280 | 0 |
| Sb | 123 | 0.012 | ug/L | 0.002 | 15 | 92 | 199 | 7 |
| Ba | 135 | 0.068 | ug/L | 0.004 | 6 | 33 | 215 | 5 |
| [Ba | 137 | 0.064 | ug/L | 0.003 | 4 | 66 | 362 | 3 |
| [> Tb | 159 | | ug/L | | | 338862 | 383514 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 781 | 91 | 99 | 28 |
| Pb | 208 | 0.022 | ug/L | 0.001 | 4 | 506 | 1251 | 2 |
| Bi | 209 | | ug/L | | | 237757 | 263533 | 0 |
| Th | 232 | 0.025 | ug/L | 0.001 | 3 | 538 | 1766 | 2 |
| [U | 238 | 0.001 | ug/L | 0.000 | 8 | 44 | 98 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 FDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 12:46:46

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

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4-19-2010

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 368511 | 462809 | 0 |
| [Be | 9 | -0.000 | ug/L | 0.003 | 57079 | 1 | 2 | 69 |
| C | 13 | | mg/L | | | 3795 | 6186 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 2244313 | 0 |
| > Sc | 45 | | ug/L | | | 205072 | 239547 | 0 |
| V-1 | 51 | 0.010 | ug/L | 0.005 | 52 | 1772 | 2188 | 2 |
| V | 51 | 0.008 | ug/L | 0.002 | 24 | 427 | 591 | 4 |
| Cr | 52 | 0.010 | ug/L | 0.008 | 82 | 5532 | 6562 | 0 |
| Cr | 53 | 0.002 | ug/L | 0.020 | 797 | 195 | 230 | 10 |
| Mn | 55 | -0.017 | ug/L | 0.002 | 13 | 1844 | 1841 | 2 |
| [Co | 59 | 0.002 | ug/L | 0.001 | 31 | 132 | 180 | 4 |
| > Ge | 72 | | ug/L | | | 307391 | 327831 | 0 |
| Ni | 60 | -0.017 | ug/L | 0.009 | 52 | 475 | 459 | 5 |
| Ni | 62 | 0.001 | ug/L | 0.064 | 12297 | 133 | 142 | 18 |
| Cu | 63 | 0.298 | ug/L | 0.004 | 1 | 391 | 2272 | 0 |
| Cu | 65 | 0.304 | ug/L | 0.008 | 2 | 136 | 1052 | 1 |
| Zn | 66 | 0.793 | ug/L | 0.019 | 2 | 997 | 2671 | 1 |
| Zn | 67 | 0.759 | ug/L | 0.108 | 14 | 177 | 448 | 8 |
| Zn | 68 | 0.243 | ug/L | 0.023 | 9 | 5761 | 6492 | 0 |
| As-1 | 75 | 0.060 | ug/L | 0.009 | 14 | -137 | -47 | 29 |
| As | 75 | -0.458 | ug/L | 0.062 | 13 | 6757 | 6445 | 1 |
| Se | 82 | 0.111 | ug/L | 0.082 | 73 | -12 | 5 | 261 |
| Se | 78 | -1.708 | ug/L | 0.223 | 13 | 7072 | 6758 | 1 |
| [Mo | 98 | 0.011 | ug/L | 0.001 | 12 | 26 | 77 | 7 |
| Y | 89 | | ug/L | | | 195744 | 220962 | 0 |
| Kr | 83 | | ug/L | | | 92 | 108 | 6 |
| > In | 115 | | ug/L | | | 326340 | 370809 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.002 | 34 | 47 | 110 | 17 |
| Cd | 111 | 0.003 | ug/L | 0.006 | 209 | 161 | 192 | 10 |
| Cd | 114 | 0.001 | ug/L | 0.000 | 21 | 26 | 38 | 5 |
| Sb | 121 | 0.008 | ug/L | 0.002 | 22 | 125 | 227 | 7 |
| Sb | 123 | 0.010 | ug/L | 0.001 | 8 | 92 | 180 | 2 |
| Ba | 135 | 0.066 | ug/L | 0.007 | 11 | 33 | 211 | 9 |
| [Ba | 137 | 0.056 | ug/L | 0.005 | 8 | 66 | 328 | 5 |
| > Tb | 159 | | ug/L | | | 338862 | 381707 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 23 | 91 | 78 | 7 |
| Pb | 208 | 0.031 | ug/L | 0.003 | 10 | 506 | 1508 | 5 |
| Bi | 209 | | ug/L | | | 237757 | 262556 | 0 |
| Th | 232 | 0.014 | ug/L | 0.002 | 17 | 538 | 1221 | 7 |
| [U | 238 | 0.000 | ug/L | 0.000 | 94 | 44 | 63 | 19 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95-FSPK REN *zzzz*

Sample Dil Factor: 2

Comments: *AR * 4-19-10*

Sample Date/Time: Monday, April 19, 2010 12:53:34

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 635 | 97 |
| [Be | 9 | 6.839 | ug/L | 4.300 | 62 | 1 | 2 | |
| C | 13 | | mg/L | | | 3795 | 4727 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 1297561 | 2 |
| [> Sc | 45 | | ug/L | | | 205072 | 1857 | 14 |
| V-1 | 51 | 17.870 | ug/L | 1.577 | 8 | 1772 | 1566 | 5 |
| V | 51 | 4.906 | ug/L | 0.867 | 17 | 427 | 436 | 6 |
| Cr | 52 | 60.550 | ug/L | 6.529 | 10 | 5532 | 4790 | 3 |
| Cr | 53 | 18.910 | ug/L | 3.983 | 21 | 195 | 180 | 8 |
| Mn | 55 | 22.180 | ug/L | 2.614 | 11 | 1844 | 3092 | 1 |
| [Co | 59 | 0.796 | ug/L | 0.188 | 23 | 132 | 90 | 38 |
| [> Ge | 72 | | ug/L | | | 307391 | 4922 | 8 |
| Ni | 60 | 5.377 | ug/L | 0.803 | 14 | 475 | 227 | 8 |
| Ni | 62 | 6.224 | ug/L | 1.455 | 23 | 133 | 40 | 14 |
| Cu | 63 | 0.953 | ug/L | 0.159 | 16 | 391 | 94 | 8 |
| Cu | 65 | 0.310 | ug/L | 0.217 | 70 | 136 | 15 | 57 |
| Zn | 66 | 0.133 | ug/L | 0.225 | 168 | 997 | 20 | 33 |
| Zn | 67 | 7.292 | ug/L | 1.337 | 18 | 177 | 40 | 14 |
| Zn | 68 | 339.759 | ug/L | 35.953 | 10 | 5761 | 7333 | 2 |
| As-1 | 75 | 76.769 | ug/L | 5.142 | 6 | -137 | 1876 | 2 |
| As | 75 | 376.092 | ug/L | 33.120 | 8 | 6757 | 9453 | 0 |
| Se | 82 | -1.898 | ug/L | 8.015 | 422 | -12 | -4 | 408 |
| Se | 78 | 1381.071 | ug/L | 119.968 | 8 | 7072 | 9576 | 0 |
| [Mo | 98 | 0.065 | ug/L | 0.023 | 35 | 26 | 4 | 25 |
| Y | 89 | | ug/L | | | 195744 | 174 | 168 |
| Kr | 83 | | ug/L | | | 92 | 804 | 1 |
| [> In | 115 | | ug/L | | | 326340 | 281 | 170 |
| Ag | 107 | 30.165 | ug/L | 26.229 | 86 | 47 | 6 | 10 |
| Cd | 111 | 265.891 | ug/L | 228.930 | 86 | 161 | 13 | 18 |
| Cd | 114 | 206.019 | ug/L | 183.173 | 88 | 26 | 26 | 26 |
| Sb | 121 | 39.865 | ug/L | 34.501 | 86 | 125 | 8 | 8 |
| Sb | 123 | 33.124 | ug/L | 28.695 | 86 | 92 | 5 | 9 |
| Ba | 135 | 191.821 | ug/L | 180.697 | 94 | 33 | 7 | 55 |
| [Ba | 137 | 91.218 | ug/L | 83.957 | 92 | 66 | 9 | 32 |
| [> Tb | 159 | | ug/L | | | 338862 | 285 | 172 |
| Tl | 205 | 2449.075 | ug/L | 2212.385 | 90 | 91 | 289 | 54 |
| Pb | 208 | 178.957 | ug/L | 157.731 | 88 | 506 | 35 | 28 |
| Bi | 209 | | ug/L | | | 237757 | 150 | 166 |
| Th | 232 | 8.455 | ug/L | 14.519 | 171 | 538 | 7 | 130 |
| [U | 238 | 8.007 | ug/L | 13.819 | 172 | 44 | 4 | 87 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ21 J RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 13:00:27

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

HJ H

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 473063 | 1 |
| [Be | 9 | 0.007 | ug/L | 0.004 | 59 | 1 | 5 | 35 |
| C | 13 | | mg/L | | | 3795 | 6148 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 2485987 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 362568 | 0 |
| [V-1 | 51 | 1.739 | ug/L | 0.035 | 1 | 1772 | 32818 | 1 |
| [V | 51 | 1.980 | ug/L | 0.019 | 0 | 427 | 35376 | 0 |
| [Cr | 52 | 0.635 | ug/L | 0.008 | 1 | 5532 | 19581 | 1 |
| [Cr | 53 | 1.431 | ug/L | 0.042 | 2 | 195 | 3030 | 3 |
| [Mn | 55 | 0.632 | ug/L | 0.047 | 7 | 1844 | 20553 | 6 |
| [Co | 59 | 0.179 | ug/L | 0.002 | 1 | 132 | 4084 | 1 |
| [> Ge | 72 | | ug/L | | | 307391 | 318030 | 0 |
| [Ni | 60 | 5.952 | ug/L | 0.046 | 0 | 475 | 16337 | 0 |
| [Ni | 62 | 2.976 | ug/L | 0.052 | 1 | 133 | 1336 | 1 |
| [Cu | 63 | 1.555 | ug/L | 0.013 | 0 | 391 | 9803 | 0 |
| [Cu | 65 | 1.547 | ug/L | 0.042 | 2 | 136 | 4612 | 2 |
| [Zn | 66 | 2.494 | ug/L | 0.072 | 2 | 997 | 5936 | 2 |
| [Zn | 67 | 3.082 | ug/L | 0.171 | 5 | 177 | 1203 | 4 |
| [Zn | 68 | 3.640 | ug/L | 0.042 | 1 | 5761 | 11004 | 0 |
| [As-1 | 75 | 1.166 | ug/L | 0.011 | 0 | -137 | 1707 | 1 |
| [As | 75 | u -0.083 | ug/L | 0.018 | 22 | 6757 | 6857 | 0 |
| [Se | 82 | 3.124 | ug/L | 0.061 | 1 | -12 | 499 | 2 |
| [Se | 78 | -1.426 | ug/L | 0.062 | 4 | 7072 | 6682 | 0 |
| [Mo | 98 | 0.064 | ug/L | 0.006 | 9 | 26 | 318 | 8 |
| [Y | 89 | | ug/L | | | 195744 | 219362 | 0 |
| [Kr | 83 | | ug/L | | | 92 | 111 | 3 |
| [> In | 115 | | ug/L | | | 326340 | 356188 | 0 |
| [Ag | 107 | 0.017 | ug/L | 0.002 | 11 | 47 | 244 | 8 |
| [Cd | 111 | 0.012 | ug/L | 0.005 | 38 | 161 | 210 | 6 |
| [Cd | 114 | 0.003 | ug/L | 0.001 | 30 | 26 | 52 | 13 |
| [Sb | 121 | 0.098 | ug/L | 0.001 | 1 | 125 | 1101 | 0 |
| [Sb | 123 | 0.093 | ug/L | 0.001 | 0 | 92 | 811 | 0 |
| [Ba | 135 | 28.798 | ug/L | 0.270 | 0 | 33 | 72583 | 0 |
| [Ba | 137 | 28.617 | ug/L | 0.398 | 1 | 66 | 123545 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 371832 | 0 |
| [Tl | 205 | 0.018 | ug/L | 0.000 | 2 | 91 | 483 | 2 |
| [Pb | 208 | 0.028 | ug/L | 0.003 | 12 | 506 | 1380 | 8 |
| [Bi | 209 | | ug/L | | | 237757 | 237709 | 0 |
| [Th | 232 | 0.030 | ug/L | 0.004 | 14 | 538 | 1910 | 10 |
| [U | 238 | 0.083 | ug/L | 0.003 | 3 | 44 | 3925 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ17 G RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 13:07:18

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 515128 | 1 |
| [Be | 9 | -0.002 | ug/L | 0.003 | 116 | 1 | 1 | 100 |
| C | 13 | | mg/L | | | 3795 | 6506 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2314641 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 430126 | 1 |
| V-1 | 51 | 6.202 | ug/L | 0.085 | 1 | 1772 | 129307 | 0 |
| V | 51 | 6.361 | ug/L | 0.055 | 0 | 427 | 132862 | 0 |
| Cr | 52 | 9.531 | ug/L | 0.091 | 0 | 5532 | 186144 | 0 |
| Cr | 53 | 9.771 | ug/L | 0.076 | 0 | 195 | 22170 | 1 |
| Mn | 55 | 24.597 | ug/L | 0.188 | 0 | 1844 | 802446 | 0 |
| [Co | 59 | 0.080 | ug/L | 0.004 | 5 | 132 | 2317 | 4 |
| [> Ge | 72 | | ug/L | | | 307391 | 331610 | 0 |
| Ni | 60 | 7.627 | ug/L | 0.104 | 1 | 475 | 21686 | 1 |
| Ni | 62 | 5.948 | ug/L | 0.075 | 1 | 133 | 2641 | 1 |
| Cu | 63 | 1.255 | ug/L | 0.016 | 1 | 391 | 8330 | 1 |
| Cu | 65 | 1.046 | ug/L | 0.031 | 2 | 136 | 3300 | 2 |
| Zn | 66 | 6.386 | ug/L | 0.011 | 0 | 997 | 14171 | 0 |
| Zn | 67 | 6.923 | ug/L | 0.058 | 0 | 177 | 2579 | 0 |
| Zn | 68 | 7.837 | ug/L | 0.069 | 0 | 5761 | 17535 | 0 |
| As-1 | 75 | 2.763 | ug/L | 0.012 | 0 | -137 | 4423 | 0 |
| As | 75 | 2.171 | ug/L | 0.034 | 1 | 6757 | 10941 | 0 |
| Se | 82 | 1.795 | ug/L | 0.109 | 6 | -12 | 293 | 6 |
| Se | 78 | -0.223 | ug/L | 0.060 | 26 | 7072 | 7525 | 0 |
| [Mo | 98 | 3.174 | ug/L | 0.013 | 0 | 26 | 15030 | 0 |
| Y | 89 | | ug/L | | | 195744 | 224512 | 0 |
| Kr | 83 | | ug/L | | | 92 | 112 | 4 |
| [> In | 115 | | ug/L | | | 326340 | 369468 | 0 |
| Ag | 107 | 0.004 | ug/L | 0.001 | 19 | 47 | 97 | 9 |
| Cd | 111 | 0.020 | ug/L | 0.002 | 7 | 161 | 241 | 2 |
| Cd | 114 | 0.024 | ug/L | 0.002 | 9 | 26 | 201 | 7 |
| Sb | 121 | 0.132 | ug/L | 0.001 | 0 | 125 | 1495 | 0 |
| Sb | 123 | 0.126 | ug/L | 0.007 | 5 | 92 | 1101 | 4 |
| Ba | 135 | 8.467 | ug/L | 0.140 | 1 | 33 | 22160 | 0 |
| [Ba | 137 | 8.465 | ug/L | 0.060 | 0 | 66 | 37959 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 388540 | 0 |
| Tl | 205 | 0.013 | ug/L | 0.003 | 20 | 91 | 390 | 15 |
| Pb | 208 | 0.042 | ug/L | 0.002 | 5 | 506 | 1889 | 4 |
| Bi | 209 | | ug/L | | | 237757 | 243027 | 0 |
| Th | 232 | 0.015 | ug/L | 0.003 | 18 | 538 | 1329 | 10 |
| [U | 238 | 0.047 | ug/L | 0.002 | 3 | 44 | 2343 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 FSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 13:15:07

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

D.L. 4/19/2010
P.C.

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 538160 | 0 |
| [Be | 9 | 22.614 | ug/L | 0.088 | 0 | 1 | 11805 | 0 |
| C | 13 | | mg/L | | | 3795 | 7257 | 1 |
| Cl | 37 | | mg/L | | | 2323713 | 2460012 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 262430 | 0 |
| V-1 | 51 | 24.768 | ug/L | 0.119 | 0 | 1772 | 308318 | 0 |
| V | 51 | 24.747 | ug/L | 0.079 | 0 | 427 | 313787 | 0 |
| Cr | 52 | 25.119 | ug/L | 0.050 | 0 | 5532 | 287757 | 0 |
| Cr | 53 | 25.032 | ug/L | 0.063 | 0 | 195 | 34265 | 0 |
| Mn | 55 | 25.130 | ug/L | 0.047 | 0 | 1844 | 500180 | 0 |
| [Co | 59 | 25.042 | ug/L | 0.008 | 0 | 132 | 389734 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 351072 | 0 |
| Ni | 60 | 27.498 | ug/L | 0.130 | 0 | 475 | 81353 | 0 |
| Ni | 62 | 27.943 | ug/L | 0.493 | 1 | 133 | 12574 | 1 |
| Cu | 63 | 28.023 | ug/L | 0.243 | 0 | 391 | 187424 | 0 |
| Cu | 65 | 27.952 | ug/L | 0.220 | 0 | 136 | 89331 | 0 |
| Zn | 66 | 80.084 | ug/L | 0.652 | 0 | 997 | 174997 | 0 |
| Zn | 67 | 73.926 | ug/L | 1.366 | 1 | 177 | 27200 | 1 |
| Zn | 68 | 77.627 | ug/L | 0.603 | 0 | 5761 | 125289 | 0 |
| As-1 | 75 | 24.030 | ug/L | 0.088 | 0 | -137 | 41932 | 0 |
| As | 75 | 23.776 | ug/L | 0.099 | 0 | 6757 | 50065 | 0 |
| Se | 82 | 73.953 | ug/L | 0.417 | 0 | -12 | 13378 | 0 |
| Se | 78 | 69.903 | ug/L | 0.108 | 0 | 7072 | 42408 | 0 |
| [Mo | 98 | 0.039 | ug/L | 0.004 | 9 | 26 | 224 | 7 |
| Y | 89 | | ug/L | | | 195744 | 235532 | 0 |
| Kr | 83 | | ug/L | | | 92 | 128 | 2 |
| [> In | 115 | | ug/L | | | 326340 | 390785 | 0 |
| Ag | 107 | 24.285 | ug/L | 0.116 | 0 | 47 | 293767 | 0 |
| Cd | 111 | 24.159 | ug/L | 0.150 | 0 | 161 | 74285 | 0 |
| Cd | 114 | 24.134 | ug/L | 0.161 | 0 | 26 | 181576 | 0 |
| Sb | 121 | 0.009 | ug/L | 0.001 | 10 | 125 | 248 | 4 |
| Sb | 123 | 0.010 | ug/L | 0.003 | 27 | 92 | 197 | 12 |
| Ba | 135 | 24.876 | ug/L | 0.127 | 0 | 33 | 68795 | 0 |
| [Ba | 137 | 24.827 | ug/L | 0.140 | 0 | 66 | 117608 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 407811 | 0 |
| Tl | 205 | 24.096 | ug/L | 0.162 | 0 | 91 | 563362 | 0 |
| Pb | 208 | 24.307 | ug/L | 0.048 | 0 | 506 | 795107 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 268360 | 0 |
| Th | 232 | 23.141 | ug/L | 0.245 | 1 | 538 | 1122618 | 0 |
| [U | 238 | 23.162 | ug/L | 0.199 | 0 | 44 | 1182467 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ17 D RHN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Monday, April 19, 2010 13:21:57

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 526647 | 2 |
| [Be | 9 | -0.001 | ug/L | 0.003 | 463 | 1 | 2 | 69 |
| C | 13 | | mg/L | | | 3795 | 5944 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2499677 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 348530 | 0 |
| V-1 | 51 | 0.153 | ug/L | 0.006 | 4 | 1772 | 5519 | 1 |
| V | 51 | 0.247 | ug/L | 0.002 | 0 | 427 | 4880 | 1 |
| Cr | 52 | -0.075 | ug/L | 0.007 | 9 | 5532 | 8294 | 0 |
| Cr | 53 | 0.222 | ug/L | 0.012 | 5 | 195 | 733 | 3 |
| Mn | 55 | 1652.315 | ug/L | 10.762 | 0 | 1844 | 43474096 | 0 |
| [Co | 59 | 0.530 | ug/L | 0.004 | 0 | 132 | 11175 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 339389 | 0 |
| Ni | 60 | 2.466 | ug/L | 0.043 | 1 | 475 | 7529 | 1 |
| Ni | 62 | 1.464 | ug/L | 0.063 | 4 | 133 | 776 | 3 |
| Cu | 63 | 0.342 | ug/L | 0.004 | 1 | 391 | 2640 | 1 |
| Cu | 65 | 0.257 | ug/L | 0.009 | 3 | 136 | 944 | 2 |
| Zn | 66 | 0.642 | ug/L | 0.031 | 4 | 997 | 2449 | 3 |
| Zn | 67 | 0.638 | ug/L | 0.083 | 12 | 177 | 421 | 6 |
| Zn | 68 | 1.311 | ug/L | 0.071 | 5 | 5761 | 8299 | 1 |
| As-1 | 75 | 11.281 | ug/L | 0.049 | 0 | -137 | 18950 | 0 |
| As | 75 | 10.471 | ug/L | 0.051 | 0 | 6757 | 25489 | 0 |
| Se | 82 | 0.598 | ug/L | 0.043 | 7 | -12 | 90 | 8 |
| Se | 78 | -1.624 | ug/L | 0.159 | 9 | 7072 | 7037 | 0 |
| [Mo | 98 | 1.406 | ug/L | 0.022 | 1 | 26 | 6829 | 1 |
| Y | 89 | | ug/L | | | 195744 | 227960 | 0 |
| Kr | 83 | | ug/L | | | 92 | 114 | 7 |
| [> In | 115 | | ug/L | | | 326340 | 376701 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.000 | 6 | 47 | 119 | 4 |
| Cd | 111 | -0.003 | ug/L | 0.005 | 184 | 161 | 178 | 7 |
| Cd | 114 | 0.004 | ug/L | 0.002 | 50 | 26 | 58 | 24 |
| Sb | 121 | 0.012 | ug/L | 0.002 | 14 | 125 | 273 | 7 |
| Sb | 123 | 0.014 | ug/L | 0.003 | 19 | 92 | 217 | 10 |
| Ba | 135 | 4.894 | ug/L | 0.065 | 1 | 33 | 13078 | 0 |
| [Ba | 137 | 4.867 | ug/L | 0.053 | 1 | 66 | 22286 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 388700 | 0 |
| Tl | 205 | 0.013 | ug/L | 0.001 | 4 | 91 | 385 | 3 |
| Pb | 208 | 0.010 | ug/L | 0.000 | 4 | 506 | 880 | 1 |
| Bi | 209 | | ug/L | | | 237757 | 250752 | 0 |
| Th | 232 | 0.021 | ug/L | 0.002 | 10 | 538 | 1586 | 6 |
| [U | 238 | 0.024 | ug/L | 0.002 | 6 | 44 | 1207 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 13:28:47

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 512028 | 0 |
| [Be | 9 | 48.840 | ug/L | 0.194 | 0 | 1 | 24255 | 0 |
| C | 13 | | mg/L | | | 3795 | 4069 | 0 |
| Cl | 37 | | mg/L | | | 2323713 | 2527725 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 251123 | 0 |
| V-1 | 51 | 50.512 | ug/L | 0.233 | 0 | 1772 | 599455 | 0 |
| V | 51 | 50.440 | ug/L | 0.287 | 0 | 427 | 611479 | 0 |
| Cr | 52 | 50.576 | ug/L | 0.068 | 0 | 5532 | 547567 | 0 |
| Cr | 53 | 50.358 | ug/L | 0.428 | 0 | 195 | 65720 | 0 |
| Mn | 55 | 51.068 | ug/L | 0.213 | 0 | 1844 | 970321 | 0 |
| [Co | 59 | 50.153 | ug/L | 0.028 | 0 | 132 | 746763 | 0 |
| [> Ge | 72 | | ug/L | | | 307391 | 346323 | 0 |
| Ni | 60 | 53.756 | ug/L | 0.154 | 0 | 475 | 156377 | 0 |
| Ni | 62 | 53.329 | ug/L | 0.147 | 0 | 133 | 23537 | 0 |
| Cu | 63 | 53.352 | ug/L | 0.206 | 0 | 391 | 351599 | 0 |
| Cu | 65 | 52.940 | ug/L | 0.148 | 0 | 136 | 166765 | 0 |
| Zn | 66 | 54.209 | ug/L | 0.342 | 0 | 997 | 117217 | 0 |
| Zn | 67 | 53.729 | ug/L | 0.483 | 0 | 177 | 19556 | 0 |
| Zn | 68 | 52.932 | ug/L | 0.219 | 0 | 5761 | 86341 | 0 |
| As-1 | 75 | 51.622 | ug/L | 0.175 | 0 | -137 | 89038 | 0 |
| As | 75 | 50.784 | ug/L | 0.269 | 0 | 6757 | 96839 | 0 |
| Se | 82 | 52.533 | ug/L | 0.179 | 0 | -12 | 9371 | 0 |
| Se | 78 | 49.475 | ug/L | 0.489 | 0 | 7072 | 31937 | 0 |
| [Mo | 98 | 52.615 | ug/L | 0.436 | 0 | 26 | 259754 | 0 |
| Y | 89 | | ug/L | | | 195744 | 226376 | 0 |
| Kr | 83 | | ug/L | | | 92 | 143 | 4 |
| [> In | 115 | | ug/L | | | 326340 | 376639 | 0 |
| Ag | 107 | 51.068 | ug/L | 0.242 | 0 | 47 | 595315 | 0 |
| Cd | 111 | 51.071 | ug/L | 0.247 | 0 | 161 | 151145 | 0 |
| Cd | 114 | 50.845 | ug/L | 0.352 | 0 | 26 | 368664 | 0 |
| Sb | 121 | 50.450 | ug/L | 0.302 | 0 | 125 | 526188 | 0 |
| Sb | 123 | 50.254 | ug/L | 0.280 | 0 | 92 | 405612 | 0 |
| Ba | 135 | 49.271 | ug/L | 0.459 | 0 | 33 | 131286 | 0 |
| [Ba | 137 | 49.474 | ug/L | 0.432 | 0 | 66 | 225804 | 0 |
| [> Tb | 159 | | ug/L | | | 338862 | 386206 | 1 |
| Tl | 205 | 49.194 | ug/L | 0.475 | 0 | 91 | 1089087 | 0 |
| Pb | 208 | 49.171 | ug/L | 0.209 | 0 | 506 | 1522603 | 0 |
| Bi | 209 | | ug/L | | | 237757 | 254099 | 0 |
| Th | 232 | 50.287 | ug/L | 0.608 | 1 | 538 | 2309501 | 0 |
| [U | 238 | 50.404 | ug/L | 0.568 | 1 | 44 | 2436760 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 13:36:14

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 368511 | 507963 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.002 | 32 | 1 | 4 | 15 |
| C | 13 | | mg/L | | | 3795 | 4363 | 2 |
| Cl | 37 | | mg/L | | | 2323713 | 2549674 | 0 |
| [> Sc | 45 | | ug/L | | | 205072 | 249190 | 0 |
| V-1 | 51 | 0.003 | ug/L | 0.002 | 79 | 1772 | 2183 | 0 |
| V | 51 | 0.005 | ug/L | 0.001 | 10 | 427 | 584 | 1 |
| Cr | 52 | -0.019 | ug/L | 0.011 | 58 | 5532 | 6524 | 0 |
| Cr | 53 | -0.009 | ug/L | 0.004 | 44 | 195 | 225 | 1 |
| Mn | 55 | -0.009 | ug/L | 0.005 | 58 | 1844 | 2073 | 3 |
| [Co | 59 | 0.002 | ug/L | 0.002 | 99 | 132 | 190 | 14 |
| [> Ge | 72 | | ug/L | | | 307391 | 343929 | 0 |
| Ni | 60 | -0.088 | ug/L | 0.008 | 9 | 475 | 279 | 8 |
| Ni | 62 | -0.116 | ug/L | 0.012 | 10 | 133 | 99 | 5 |
| Cu | 63 | -0.008 | ug/L | 0.001 | 13 | 391 | 383 | 1 |
| Cu | 65 | 0.009 | ug/L | 0.007 | 74 | 136 | 181 | 11 |
| Zn | 66 | -0.026 | ug/L | 0.008 | 32 | 997 | 1061 | 1 |
| Zn | 67 | 0.023 | ug/L | 0.021 | 94 | 177 | 206 | 3 |
| Zn | 68 | -0.396 | ug/L | 0.125 | 31 | 5761 | 5853 | 3 |
| As-1 | 75 | 0.054 | ug/L | 0.020 | 36 | -137 | -61 | 55 |
| As | 75 | -0.321 | ug/L | 0.026 | 8 | 6757 | 7000 | 0 |
| Se | 82 | 0.048 | ug/L | 0.046 | 96 | -12 | -5 | 143 |
| Se | 78 | -1.241 | ug/L | 0.059 | 4 | 7072 | 7315 | 0 |
| [Mo | 98 | 0.015 | ug/L | 0.006 | 42 | 26 | 102 | 29 |
| Y | 89 | | ug/L | | | 195744 | 226548 | 0 |
| Kr | 83 | | ug/L | | | 92 | 115 | 3 |
| [> In | 115 | | ug/L | | | 326340 | 379001 | 0 |
| Ag | 107 | 0.011 | ug/L | 0.004 | 33 | 47 | 183 | 22 |
| Cd | 111 | -0.001 | ug/L | 0.005 | 631 | 161 | 184 | 8 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 35 | 26 | 55 | 15 |
| Sb | 121 | 0.030 | ug/L | 0.007 | 23 | 125 | 456 | 16 |
| Sb | 123 | 0.027 | ug/L | 0.005 | 19 | 92 | 329 | 13 |
| Ba | 135 | 0.003 | ug/L | 0.006 | 176 | 33 | 47 | 32 |
| [Ba | 137 | -0.001 | ug/L | 0.001 | 111 | 66 | 72 | 6 |
| [> Tb | 159 | | ug/L | | | 338862 | 388577 | 0 |
| Tl | 205 | 0.010 | ug/L | 0.001 | 9 | 91 | 317 | 7 |
| Pb | 208 | 0.006 | ug/L | 0.001 | 12 | 506 | 764 | 3 |
| Bi | 209 | | ug/L | | | 237757 | 257927 | 0 |
| Th | 232 | 0.045 | ug/L | 0.002 | 4 | 538 | 2690 | 4 |
| [U | 238 | 0.008 | ug/L | 0.002 | 21 | 44 | 429 | 19 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 13:43:40

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 502613 | 0 |
| [Be | 9 | | ug/L | | | | 1 | 114 |
| C | 13 | | mg/L | | | | 4352 | 1 |
| Cl | 37 | | mg/L | | | | 2511613 | 1 |
| [> Sc | 45 | | ug/L | | | | 247193 | 0 |
| V-1 | 51 | | ug/L | | | | 2135 | 2 |
| V | 51 | | ug/L | | | | 512 | 3 |
| Cr | 52 | | ug/L | | | | 6500 | 1 |
| Cr | 53 | | ug/L | | | | 215 | 4 |
| Mn | 55 | | ug/L | | | | 1623 | 2 |
| [Co | 59 | | ug/L | | | | 141 | 9 |
| [> Ge | 72 | | ug/L | | | | 339437 | 0 |
| Ni | 60 | | ug/L | | | | 245 | 9 |
| Ni | 62 | | ug/L | | | | 105 | 13 |
| Cu | 63 | | ug/L | | | | 383 | 6 |
| Cu | 65 | | ug/L | | | | 170 | 18 |
| Zn | 66 | | ug/L | | | | 1085 | 3 |
| Zn | 67 | | ug/L | | | | 198 | 13 |
| Zn | 68 | | ug/L | | | | 5977 | 0 |
| As-1 | 75 | | ug/L | | | | -74 | 18 |
| As | 75 | | ug/L | | | | 6996 | 0 |
| Se | 82 | | ug/L | | | | 1 | 934 |
| Se | 78 | | ug/L | | | | 7341 | 0 |
| [Mo | 98 | | ug/L | | | | 46 | 14 |
| Y | 89 | | ug/L | | | | 225299 | 0 |
| Kr | 83 | | ug/L | | | | 114 | 9 |
| [> In | 115 | | ug/L | | | | 375372 | 0 |
| Ag | 107 | | ug/L | | | | 107 | 10 |
| Cd | 111 | | ug/L | | | | 173 | 7 |
| Cd | 114 | | ug/L | | | | 42 | 10 |
| Sb | 121 | | ug/L | | | | 173 | 12 |
| Sb | 123 | | ug/L | | | | 126 | 5 |
| Ba | 135 | | ug/L | | | | 45 | 16 |
| [Ba | 137 | | ug/L | | | | 70 | 16 |
| [> Tb | 159 | | ug/L | | | | 385510 | 0 |
| Tl | 205 | | ug/L | | | | 193 | 16 |
| Pb | 208 | | ug/L | | | | 674 | 9 |
| Bi | 209 | | ug/L | | | | 257412 | 0 |
| Th | 232 | | ug/L | | | | 1058 | 6 |
| [U | 238 | | ug/L | | | | 98 | 15 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Monday, April 19, 2010 13:43:40

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0471 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0482 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0426 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0052 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0755 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0593 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 0.9998 | 0.0084 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 0.9999 | 0.0190 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 0.9999 | 0.0091 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 0.9999 | 0.0062 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 0.9999 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 0.9999 | 0.0044 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0050 | 10 | 20 | 50 | 100 | |
| As | 75 | 0.9999 | 0.0051 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9997 | 0.0014 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0143 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 1.0000 | 0.0309 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0192 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0277 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0214 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0071 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0121 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 1.0000 | 0.0573 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0802 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1189 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9998 | 0.1252 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 13:51:45

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 491320 | 0 |
| [Be | 9 | 49.136 | ug/L | 0.297 | 0 | 1 | 23415 | 0 |
| C | 13 | | mg/L | | | 4352 | 3794 | 0 |
| Cl | 37 | | mg/L | | | 2511613 | 2457170 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 244090 | 0 |
| V-1 | 51 | 50.225 | ug/L | 0.239 | 0 | 2135 | 579361 | 0 |
| V | 51 | 50.351 | ug/L | 0.124 | 0 | 512 | 593295 | 0 |
| Cr | 52 | 50.306 | ug/L | 0.171 | 0 | 6500 | 529257 | 0 |
| Cr | 53 | 50.675 | ug/L | 0.254 | 0 | 215 | 64262 | 0 |
| Mn | 55 | 50.541 | ug/L | 0.071 | 0 | 1623 | 932844 | 0 |
| [Co | 59 | 50.082 | ug/L | 0.043 | 0 | 141 | 724804 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 337540 | 0 |
| Ni | 60 | 53.448 | ug/L | 0.291 | 0 | 245 | 151262 | 0 |
| Ni | 62 | 52.916 | ug/L | 0.462 | 0 | 105 | 22721 | 0 |
| Cu | 63 | 52.993 | ug/L | 0.265 | 0 | 383 | 340332 | 0 |
| Cu | 65 | 52.877 | ug/L | 0.410 | 0 | 170 | 162361 | 0 |
| Zn | 66 | 54.070 | ug/L | 0.223 | 0 | 1085 | 113938 | 0 |
| Zn | 67 | 53.282 | ug/L | 0.500 | 0 | 198 | 18907 | 1 |
| Zn | 68 | 53.332 | ug/L | 0.087 | 0 | 5977 | 84358 | 0 |
| As-1 | 75 | 51.414 | ug/L | 0.194 | 0 | -74 | 86507 | 0 |
| As | 75 | 50.967 | ug/L | 0.042 | 0 | 6996 | 94235 | 0 |
| Se | 82 | 52.278 | ug/L | 0.423 | 0 | 1 | 9104 | 0 |
| Se | 78 | 50.582 | ug/L | 0.324 | 0 | 7341 | 31184 | 0 |
| [Mo | 98 | 52.401 | ug/L | 0.202 | 0 | 46 | 252161 | 0 |
| Y | 89 | | ug/L | | | 225299 | 219621 | 0 |
| Kr | 83 | | ug/L | | | 114 | 142 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 364869 | 0 |
| Ag | 107 | 51.402 | ug/L | 0.110 | 0 | 107 | 580545 | 0 |
| Cd | 111 | 51.398 | ug/L | 0.292 | 0 | 173 | 147346 | 0 |
| Cd | 114 | 50.996 | ug/L | 0.274 | 0 | 42 | 358213 | 0 |
| Sb | 121 | 50.301 | ug/L | 0.193 | 0 | 173 | 508278 | 0 |
| Sb | 123 | 50.250 | ug/L | 0.530 | 1 | 126 | 392918 | 0 |
| Ba | 135 | 49.789 | ug/L | 0.593 | 1 | 45 | 128526 | 0 |
| [Ba | 137 | 49.863 | ug/L | 0.439 | 0 | 70 | 220463 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 373952 | 0 |
| Tl | 205 | 49.901 | ug/L | 0.349 | 0 | 193 | 1069822 | 0 |
| Pb | 208 | 49.893 | ug/L | 0.336 | 0 | 674 | 1496033 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 249251 | 0 |
| Th | 232 | 50.881 | ug/L | 0.450 | 0 | 1058 | 2263124 | 0 |
| [U | 238 | 50.614 | ug/L | 0.420 | 0 | 98 | 2369429 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 13:59:13

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 490939 | 1 |
| [Be | 9 | 0.008 | ug/L | 0.001 | 17 | 1 | 5 | 13 |
| C | 13 | | mg/L | | | 4352 | 4300 | 0 |
| Cl | 37 | | mg/L | | | 2511613 | 2486113 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 241994 | 0 |
| V-1 | 51 | -0.003 | ug/L | 0.011 | 331 | 2135 | 2053 | 5 |
| V | 51 | -0.003 | ug/L | 0.002 | 71 | 512 | 467 | 5 |
| Cr | 52 | -0.006 | ug/L | 0.015 | 244 | 6500 | 6298 | 2 |
| Cr | 53 | -0.005 | ug/L | 0.017 | 314 | 215 | 204 | 10 |
| Mn | 55 | -0.007 | ug/L | 0.005 | 69 | 1623 | 1459 | 6 |
| Co | 59 | 0.002 | ug/L | 0.002 | 80 | 141 | 170 | 15 |
| [> Ge | 72 | | ug/L | | | 339437 | 333561 | 0 |
| Ni | 60 | -0.007 | ug/L | 0.002 | 25 | 245 | 220 | 1 |
| Ni | 62 | -0.018 | ug/L | 0.007 | 36 | 105 | 95 | 2 |
| Cu | 63 | 0.003 | ug/L | 0.002 | 62 | 383 | 397 | 2 |
| Cu | 65 | -0.002 | ug/L | 0.008 | 366 | 170 | 160 | 15 |
| Zn | 66 | -0.022 | ug/L | 0.016 | 71 | 1085 | 1020 | 2 |
| Zn | 67 | 0.027 | ug/L | 0.042 | 158 | 198 | 204 | 7 |
| Zn | 68 | -0.059 | ug/L | 0.076 | 129 | 5977 | 5788 | 1 |
| As-1 | 75 | -0.008 | ug/L | 0.014 | 179 | -74 | -86 | 26 |
| As | 75 | -0.043 | ug/L | 0.049 | 114 | 6996 | 6802 | 0 |
| Se | 82 | -0.065 | ug/L | 0.014 | 21 | 1 | -9 | 24 |
| Se | 78 | -0.113 | ug/L | 0.199 | 175 | 7341 | 7160 | 0 |
| [Mo | 98 | 0.013 | ug/L | 0.004 | 31 | 46 | 106 | 18 |
| Y | 89 | | ug/L | | | 225299 | 219922 | 0 |
| Kr | 83 | | ug/L | | | 114 | 126 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 368579 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.003 | 45 | 107 | 182 | 19 |
| Cd | 111 | 0.006 | ug/L | 0.002 | 41 | 173 | 186 | 3 |
| Cd | 114 | 0.001 | ug/L | 0.002 | 151 | 42 | 49 | 23 |
| Sb | 121 | 0.021 | ug/L | 0.007 | 34 | 173 | 386 | 19 |
| Sb | 123 | 0.023 | ug/L | 0.006 | 27 | 126 | 302 | 16 |
| Ba | 135 | 0.004 | ug/L | 0.005 | 112 | 45 | 55 | 22 |
| [Ba | 137 | 0.006 | ug/L | 0.002 | 32 | 70 | 97 | 9 |
| [> Tb | 159 | | ug/L | | | 385510 | 377241 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.002 | 70 | 193 | 259 | 19 |
| Pb | 208 | 0.003 | ug/L | 0.002 | 61 | 674 | 762 | 7 |
| Bi | 209 | | ug/L | | | 257412 | 254538 | 0 |
| Th | 232 | 0.030 | ug/L | 0.005 | 15 | 1058 | 2387 | 9 |
| [U | 238 | 0.006 | ug/L | 0.002 | 31 | 98 | 382 | 23 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 14:06:39

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 518241 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.003 | 120 | 1 | 2 | 49 |
| C | 13 | | mg/L | | | 4352 | 6046 | 3 |
| Cl | 37 | | mg/L | | | 2511613 | 2397283 | 1 |
| [> Sc | 45 | | ug/L | | | 247193 | 249472 | 0 |
| V-1 | 51 | 0.015 | ug/L | 0.006 | 38 | 2135 | 2329 | 2 |
| V | 51 | 0.003 | ug/L | 0.002 | 57 | 512 | 552 | 4 |
| Cr | 52 | 0.055 | ug/L | 0.011 | 20 | 6500 | 7142 | 1 |
| Cr | 53 | 0.016 | ug/L | 0.014 | 84 | 215 | 238 | 7 |
| Mn | 55 | -0.016 | ug/L | 0.002 | 11 | 1623 | 1344 | 3 |
| Co | 59 | 0.000 | ug/L | 0.001 | 245 | 141 | 147 | 6 |
| [> Ge | 72 | | ug/L | | | 339437 | 339133 | 0 |
| Ni | 60 | 0.010 | ug/L | 0.013 | 120 | 245 | 274 | 13 |
| Ni | 62 | -0.023 | ug/L | 0.019 | 82 | 105 | 95 | 8 |
| Cu | 63 | 0.036 | ug/L | 0.004 | 11 | 383 | 615 | 4 |
| Cu | 65 | 0.028 | ug/L | 0.004 | 15 | 170 | 255 | 4 |
| Zn | 66 | 0.063 | ug/L | 0.004 | 6 | 1085 | 1216 | 0 |
| Zn | 67 | 0.067 | ug/L | 0.027 | 41 | 198 | 222 | 4 |
| Zn | 68 | -0.135 | ug/L | 0.089 | 65 | 5977 | 5773 | 1 |
| As-1 | 75 | -0.001 | ug/L | 0.017 | 2801 | -74 | -75 | 37 |
| As | 75 | -0.190 | ug/L | 0.026 | 13 | 6996 | 6663 | 0 |
| Se | 82 | -0.003 | ug/L | 0.008 | 234 | 1 | 0 | 139 |
| Se | 78 | -0.662 | ug/L | 0.057 | 8 | 7341 | 7020 | 0 |
| [Mo | 98 | 0.016 | ug/L | 0.004 | 24 | 46 | 121 | 15 |
| Y | 89 | | ug/L | | | 225299 | 226020 | 0 |
| Kr | 83 | | ug/L | | | 114 | 119 | 2 |
| [> In | 115 | | ug/L | | | 375372 | 378737 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 80 | 107 | 122 | 8 |
| Cd | 111 | 0.003 | ug/L | 0.001 | 37 | 173 | 183 | 1 |
| Cd | 114 | -0.001 | ug/L | 0.002 | 247 | 42 | 36 | 39 |
| Sb | 121 | 0.001 | ug/L | 0.001 | 185 | 173 | 183 | 8 |
| Sb | 123 | 0.000 | ug/L | 0.001 | 772 | 126 | 128 | 5 |
| Ba | 135 | 0.028 | ug/L | 0.006 | 20 | 45 | 120 | 12 |
| [Ba | 137 | 0.025 | ug/L | 0.006 | 24 | 70 | 187 | 15 |
| [> Tb | 159 | | ug/L | | | 385510 | 390337 | 0 |
| Tl | 205 | -0.004 | ug/L | 0.000 | 9 | 193 | 114 | 7 |
| Pb | 208 | 0.015 | ug/L | 0.001 | 6 | 674 | 1143 | 2 |
| Bi | 209 | | ug/L | | | 257412 | 261087 | 0 |
| Th | 232 | 0.004 | ug/L | 0.002 | 48 | 1058 | 1247 | 6 |
| [U | 238 | 0.001 | ug/L | 0.000 | 21 | 98 | 147 | 6 |

14-20-10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 MB2SK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 14:13:27

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 517898 | 0 |
| [Be | 9 | 23.776 | ug/L | 0.095 | 0 | 1 | 11944 | 0 |
| C | 13 | | mg/L | | | 4352 | 6832 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2382786 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 248956 | 0 |
| V-1 | 51 | 25.543 | ug/L | 0.119 | 0 | 2135 | 301574 | 0 |
| V | 51 | 25.552 | ug/L | 0.140 | 0 | 512 | 307333 | 0 |
| Cr | 52 | 25.909 | ug/L | 0.126 | 0 | 6500 | 281188 | 0 |
| Cr | 53 | 25.908 | ug/L | 0.170 | 0 | 215 | 33616 | 0 |
| Mn | 55 | 25.951 | ug/L | 0.061 | 0 | 1623 | 489321 | 0 |
| [Co | 59 | 25.836 | ug/L | 0.045 | 0 | 141 | 381433 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 336622 | 0 |
| Ni | 60 | 28.365 | ug/L | 0.042 | 0 | 245 | 80170 | 0 |
| Ni | 62 | 27.964 | ug/L | 0.236 | 0 | 105 | 12023 | 0 |
| Cu | 63 | 28.718 | ug/L | 0.157 | 0 | 383 | 184105 | 0 |
| Cu | 65 | 28.614 | ug/L | 0.083 | 0 | 170 | 87699 | 0 |
| Zn | 66 | 85.506 | ug/L | 0.128 | 0 | 1085 | 179067 | 0 |
| Zn | 67 | 78.673 | ug/L | 0.852 | 1 | 198 | 27747 | 1 |
| Zn | 68 | 83.112 | ug/L | 0.268 | 0 | 5977 | 127794 | 0 |
| As-1 | 75 | 25.360 | ug/L | 0.050 | 0 | -74 | 42515 | 0 |
| As | 75 | 25.578 | ug/L | 0.130 | 0 | 6996 | 50619 | 0 |
| Se | 82 | 80.454 | ug/L | 0.252 | 0 | 1 | 13972 | 0 |
| Se | 78 | 77.735 | ug/L | 0.141 | 0 | 7341 | 43886 | 0 |
| [Mo | 98 | 0.259 | ug/L | 0.009 | 3 | 46 | 1287 | 3 |
| Y | 89 | | ug/L | | | 225299 | 226205 | 0 |
| Kr | 83 | | ug/L | | | 114 | 128 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 376045 | 0 |
| Ag | 107 | 25.061 | ug/L | 0.086 | 0 | 107 | 291771 | 0 |
| Cd | 111 | 25.580 | ug/L | 0.122 | 0 | 173 | 75666 | 0 |
| Cd | 114 | 25.426 | ug/L | 0.085 | 0 | 42 | 184094 | 0 |
| Sb | 121 | 0.006 | ug/L | 0.001 | 11 | 173 | 235 | 3 |
| Sb | 123 | 0.009 | ug/L | 0.002 | 23 | 126 | 195 | 8 |
| Ba | 135 | 25.247 | ug/L | 0.110 | 0 | 45 | 67194 | 0 |
| [Ba | 137 | 25.304 | ug/L | 0.198 | 0 | 70 | 115344 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 387012 | 0 |
| Tl | 205 | 25.270 | ug/L | 0.108 | 0 | 193 | 560774 | 0 |
| Pb | 208 | 25.493 | ug/L | 0.087 | 0 | 674 | 791456 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 260431 | 0 |
| Th | 232 | 24.172 | ug/L | 0.156 | 0 | 1058 | 1113286 | 0 |
| [U | 238 | 24.130 | ug/L | 0.107 | 0 | 98 | 1169137 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 F-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Monday, April 19, 2010 14:20:14

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 513170 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.004 | 483 | 1 | 1 | 173 |
| C | 13 | | mg/L | | | 4352 | 4692 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2393450 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 247807 | 0 |
| V-1 | 51 | -0.003 | ug/L | 0.007 | 225 | 2135 | 2105 | 3 |
| V | 51 | -0.003 | ug/L | 0.002 | 60 | 512 | 473 | 5 |
| Cr | 52 | -0.004 | ug/L | 0.008 | 174 | 6500 | 6470 | 1 |
| Cr | 53 | 0.006 | ug/L | 0.008 | 141 | 215 | 209 | 4 |
| Mn | 55 | -0.024 | ug/L | 0.002 | 7 | 1623 | 1184 | 2 |
| [Co | 59 | 0.003 | ug/L | 0.001 | 22 | 141 | 180 | 4 |
| [> Ge | 72 | | ug/L | | | 339437 | 336667 | 0 |
| Ni | 60 | 0.032 | ug/L | 0.005 | 16 | 245 | 333 | 4 |
| Ni | 62 | 0.025 | ug/L | 0.019 | 77 | 105 | 114 | 6 |
| Cu | 63 | 0.099 | ug/L | 0.008 | 8 | 383 | 1012 | 4 |
| Cu | 65 | 0.103 | ug/L | 0.010 | 9 | 170 | 484 | 6 |
| Zn | 66 | 0.089 | ug/L | 0.014 | 15 | 1085 | 1262 | 2 |
| Zn | 67 | 0.128 | ug/L | 0.024 | 18 | 198 | 242 | 3 |
| Zn | 68 | -0.065 | ug/L | 0.111 | 170 | 5977 | 5833 | 2 |
| As-1 | 75 | 0.015 | ug/L | 0.020 | 131 | -74 | -48 | 69 |
| As | 75 | -0.155 | ug/L | 0.017 | 11 | 6996 | 6675 | 0 |
| Se | 82 | -0.033 | ug/L | 0.067 | 203 | 1 | -4 | 276 |
| Se | 78 | -0.594 | ug/L | 0.014 | 2 | 7341 | 7001 | 0 |
| [Mo | 98 | -0.000 | ug/L | 0.001 | 193 | 46 | 44 | 6 |
| Y | 89 | | ug/L | | | 225299 | 225270 | 0 |
| Kr | 83 | | ug/L | | | 114 | 123 | 2 |
| [> In | 115 | | ug/L | | | 375372 | 376645 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.002 | 93 | 107 | 137 | 19 |
| Cd | 111 | 0.000 | ug/L | 0.005 | 1760 | 173 | 174 | 8 |
| Cd | 114 | 0.000 | ug/L | 0.002 | 3647 | 42 | 42 | 29 |
| Sb | 121 | -0.006 | ug/L | 0.000 | 3 | 173 | 111 | 2 |
| Sb | 123 | -0.006 | ug/L | 0.002 | 32 | 126 | 75 | 22 |
| Ba | 135 | 0.017 | ug/L | 0.005 | 28 | 45 | 89 | 14 |
| [Ba | 137 | 0.019 | ug/L | 0.000 | 2 | 70 | 155 | 1 |
| [> Tb | 159 | | ug/L | | | 385510 | 385796 | 0 |
| Tl | 205 | -0.002 | ug/L | 0.001 | 48 | 193 | 158 | 11 |
| Pb | 208 | 0.007 | ug/L | 0.000 | 4 | 674 | 898 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 260349 | 0 |
| Th | 232 | 0.013 | ug/L | 0.003 | 21 | 1058 | 1634 | 7 |
| [U | 238 | 0.003 | ug/L | 0.001 | 24 | 98 | 252 | 15 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 14:27:03

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 520808 | 0 |
| [Be | 9 | 0.001 | ug/L | 0.003 | 404 | 1 | 2 | 69 |
| C | 13 | | mg/L | | | 4352 | 6178 | 3 |
| Cl | 37 | | mg/L | | | 2511613 | 2316446 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 249608 | 0 |
| V-1 | 51 | 0.010 | ug/L | 0.002 | 23 | 2135 | 2278 | 0 |
| V | 51 | 0.005 | ug/L | 0.001 | 24 | 512 | 581 | 1 |
| Cr | 52 | 0.059 | ug/L | 0.008 | 14 | 6500 | 7192 | 1 |
| Cr | 53 | 0.040 | ug/L | 0.009 | 22 | 215 | 270 | 5 |
| Mn | 55 | -0.001 | ug/L | 0.000 | 77 | 1623 | 1627 | 0 |
| [Co | 59 | 0.001 | ug/L | 0.002 | 142 | 141 | 160 | 15 |
| [> Ge | 72 | | ug/L | | | 339437 | 332690 | 0 |
| Ni | 60 | 0.035 | ug/L | 0.009 | 25 | 245 | 337 | 6 |
| Ni | 62 | 0.044 | ug/L | 0.045 | 101 | 105 | 121 | 15 |
| Cu | 63 | 0.309 | ug/L | 0.005 | 1 | 383 | 2329 | 1 |
| Cu | 65 | 0.300 | ug/L | 0.013 | 4 | 170 | 1075 | 3 |
| Zn | 66 | 0.437 | ug/L | 0.030 | 6 | 1085 | 1963 | 3 |
| Zn | 67 | 0.405 | ug/L | 0.082 | 20 | 198 | 335 | 8 |
| Zn | 68 | 0.148 | ug/L | 0.041 | 27 | 5977 | 6073 | 1 |
| As-1 | 75 | 0.027 | ug/L | 0.026 | 97 | -74 | -28 | 153 |
| As | 75 | -0.215 | ug/L | 0.012 | 5 | 6996 | 6495 | 0 |
| Se | 82 | 0.082 | ug/L | 0.062 | 75 | 1 | 15 | 68 |
| Se | 78 | -0.808 | ug/L | 0.010 | 1 | 7341 | 6819 | 0 |
| [Mo | 98 | 0.012 | ug/L | 0.002 | 12 | 46 | 103 | 6 |
| Y | 89 | | ug/L | | | 225299 | 225466 | 0 |
| Kr | 83 | | ug/L | | | 114 | 110 | 4 |
| [> In | 115 | | ug/L | | | 375372 | 376301 | 0 |
| Ag | 107 | -0.001 | ug/L | 0.001 | 92 | 107 | 96 | 11 |
| Cd | 111 | -0.005 | ug/L | 0.004 | 75 | 173 | 158 | 7 |
| Cd | 114 | -0.002 | ug/L | 0.000 | 16 | 42 | 29 | 7 |
| Sb | 121 | 0.001 | ug/L | 0.001 | 169 | 173 | 182 | 8 |
| Sb | 123 | 0.001 | ug/L | 0.001 | 52 | 126 | 136 | 3 |
| Ba | 135 | 0.058 | ug/L | 0.007 | 11 | 45 | 200 | 8 |
| [Ba | 137 | 0.059 | ug/L | 0.005 | 9 | 70 | 340 | 7 |
| [> Tb | 159 | | ug/L | | | 385510 | 389729 | 0 |
| Tl | 205 | -0.006 | ug/L | 0.000 | 5 | 193 | 70 | 9 |
| Pb | 208 | 0.015 | ug/L | 0.001 | 7 | 674 | 1157 | 3 |
| Bi | 209 | | ug/L | | | 257412 | 260382 | 0 |
| Th | 232 | 0.011 | ug/L | 0.004 | 36 | 1058 | 1567 | 11 |
| [U | 238 | -0.000 | ug/L | 0.000 | 449 | 98 | 96 | 12 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 FDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 14:33:51

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 520065 | 0 |
| [Be | 9 | -0.002 | ug/L | 0.001 | 81 | 1 | 0 | 86 |
| C | 13 | | mg/L | | | 4352 | 6745 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2329175 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 249515 | 0 |
| V-1 | 51 | 0.007 | ug/L | 0.007 | 99 | 2135 | 2236 | 3 |
| V | 51 | -0.001 | ug/L | 0.000 | 35 | 512 | 505 | 1 |
| Cr | 52 | 0.017 | ug/L | 0.012 | 72 | 6500 | 6745 | 2 |
| Cr | 53 | -0.007 | ug/L | 0.021 | 294 | 215 | 208 | 12 |
| Mn | 55 | 0.010 | ug/L | 0.003 | 30 | 1623 | 1820 | 3 |
| Co | 59 | 0.002 | ug/L | 0.001 | 48 | 141 | 165 | 6 |
| [> Ge | 72 | | ug/L | | | 339437 | 330232 | 0 |
| Ni | 60 | 0.039 | ug/L | 0.009 | 22 | 245 | 346 | 6 |
| Ni | 62 | -0.012 | ug/L | 0.015 | 124 | 105 | 97 | 6 |
| Cu | 63 | 0.328 | ug/L | 0.012 | 3 | 383 | 2430 | 3 |
| Cu | 65 | 0.330 | ug/L | 0.010 | 3 | 170 | 1156 | 2 |
| Zn | 66 | 0.973 | ug/L | 0.021 | 2 | 1085 | 3042 | 1 |
| Zn | 67 | 0.980 | ug/L | 0.131 | 13 | 198 | 530 | 8 |
| Zn | 68 | 0.724 | ug/L | 0.072 | 10 | 5977 | 6856 | 1 |
| As-1 | 75 | 0.009 | ug/L | 0.025 | 281 | -74 | -58 | 70 |
| As | 75 | -0.200 | ug/L | 0.029 | 14 | 6996 | 6471 | 0 |
| Se | 82 | 0.001 | ug/L | 0.032 | 4804 | 1 | 1 | 344 |
| Se | 78 | -0.724 | ug/L | 0.134 | 18 | 7341 | 6807 | 1 |
| Mo | 98 | 0.000 | ug/L | 0.001 | 705 | 46 | 45 | 13 |
| Y | 89 | | ug/L | | | 225299 | 224134 | 0 |
| Kr | 83 | | ug/L | | | 114 | 117 | 8 |
| [> In | 115 | | ug/L | | | 375372 | 373004 | 0 |
| Ag | 107 | -0.002 | ug/L | 0.001 | 46 | 107 | 81 | 14 |
| Cd | 111 | -0.006 | ug/L | 0.006 | 112 | 173 | 155 | 12 |
| Cd | 114 | -0.001 | ug/L | 0.001 | 43 | 42 | 31 | 14 |
| Sb | 121 | 0.000 | ug/L | 0.004 | 1688 | 173 | 174 | 22 |
| Sb | 123 | 0.000 | ug/L | 0.001 | 675 | 126 | 126 | 6 |
| Ba | 135 | 0.065 | ug/L | 0.004 | 6 | 45 | 217 | 4 |
| Ba | 137 | 0.065 | ug/L | 0.002 | 3 | 70 | 363 | 3 |
| [> Tb | 159 | | ug/L | | | 385510 | 386206 | 0 |
| Tl | 205 | -0.006 | ug/L | 0.000 | 5 | 193 | 71 | 8 |
| Pb | 208 | 0.030 | ug/L | 0.001 | 1 | 674 | 1618 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 259609 | 0 |
| Th | 232 | -0.003 | ug/L | 0.001 | 56 | 1058 | 938 | 7 |
| U | 238 | -0.001 | ug/L | 0.000 | 21 | 98 | 55 | 17 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QS95 FSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 14:40:41

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 516642 | 1 |
| [Be | 9 | 22.619 | ug/L | 0.396 | 1 | 1 | 11334 | 1 |
| C | 13 | | mg/L | | | 4352 | 7132 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2324465 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 246703 | 0 |
| V-1 | 51 | 24.591 | ug/L | 0.044 | 0 | 2135 | 287784 | 0 |
| V | 51 | 24.553 | ug/L | 0.118 | 0 | 512 | 292661 | 0 |
| Cr | 52 | 25.016 | ug/L | 0.120 | 0 | 6500 | 269258 | 0 |
| Cr | 53 | 24.872 | ug/L | 0.362 | 1 | 215 | 31985 | 0 |
| Mn | 55 | 24.974 | ug/L | 0.098 | 0 | 1623 | 466699 | 0 |
| [Co | 59 | 24.911 | ug/L | 0.201 | 0 | 141 | 364427 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 331668 | 0 |
| Ni | 60 | 27.325 | ug/L | 0.312 | 1 | 245 | 76102 | 0 |
| Ni | 62 | 27.200 | ug/L | 0.333 | 1 | 105 | 11526 | 0 |
| Cu | 63 | 27.778 | ug/L | 0.025 | 0 | 383 | 175473 | 0 |
| Cu | 65 | 27.574 | ug/L | 0.163 | 0 | 170 | 83275 | 0 |
| Zn | 66 | 85.027 | ug/L | 0.072 | 0 | 1085 | 175449 | 0 |
| Zn | 67 | 77.730 | ug/L | 0.499 | 0 | 198 | 27013 | 0 |
| Zn | 68 | 82.703 | ug/L | 0.542 | 0 | 5977 | 125324 | 0 |
| As-1 | 75 | 23.921 | ug/L | 0.158 | 0 | -74 | 39508 | 0 |
| As | 75 | 23.863 | ug/L | 0.053 | 0 | 6996 | 46989 | 0 |
| Se | 82 | 73.374 | ug/L | 1.015 | 1 | 1 | 12555 | 1 |
| Se | 78 | 70.008 | ug/L | 0.166 | 0 | 7341 | 39655 | 0 |
| [Mo | 98 | 0.029 | ug/L | 0.005 | 15 | 46 | 183 | 11 |
| Y | 89 | | ug/L | | | 225299 | 222816 | 0 |
| Kr | 83 | | ug/L | | | 114 | 123 | 8 |
| [> In | 115 | | ug/L | | | 375372 | 371929 | 0 |
| Ag | 107 | 23.967 | ug/L | 0.245 | 1 | 107 | 275981 | 0 |
| Cd | 111 | 23.819 | ug/L | 0.122 | 0 | 173 | 69697 | 0 |
| Cd | 114 | 23.921 | ug/L | 0.041 | 0 | 42 | 171303 | 0 |
| Sb | 121 | 0.005 | ug/L | 0.002 | 33 | 173 | 220 | 7 |
| Sb | 123 | 0.005 | ug/L | 0.000 | 2 | 126 | 165 | 0 |
| Ba | 135 | 24.703 | ug/L | 0.064 | 0 | 45 | 65027 | 0 |
| [Ba | 137 | 24.569 | ug/L | 0.096 | 0 | 70 | 110770 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 385550 | 0 |
| Tl | 205 | 24.535 | ug/L | 0.063 | 0 | 193 | 542432 | 0 |
| Pb | 208 | 24.885 | ug/L | 0.011 | 0 | 674 | 769670 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 262162 | 0 |
| Th | 232 | 23.455 | ug/L | 0.098 | 0 | 1058 | 1076210 | 0 |
| [U | 238 | 23.452 | ug/L | 0.234 | 0 | 98 | 1131973 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 14:47:30

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 479471 | 0 |
| [Be | 9 | 49.362 | ug/L | 0.293 | 0 | 1 | 22955 | 0 |
| C | 13 | | mg/L | | | 4352 | 3999 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2332773 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 234479 | 0 |
| V-1 | 51 | 50.574 | ug/L | 0.238 | 0 | 2135 | 560391 | 0 |
| V | 51 | 50.579 | ug/L | 0.284 | 0 | 512 | 572504 | 0 |
| Cr | 52 | 50.550 | ug/L | 0.277 | 0 | 6500 | 510848 | 0 |
| Cr | 53 | 50.567 | ug/L | 0.542 | 1 | 215 | 61599 | 0 |
| Mn | 55 | 50.701 | ug/L | 0.260 | 0 | 1623 | 898929 | 0 |
| [Co | 59 | 50.089 | ug/L | 0.161 | 0 | 141 | 696342 | 0 |
| > Ge | 72 | | ug/L | | | 339437 | 324088 | 0 |
| Ni | 60 | 53.658 | ug/L | 0.266 | 0 | 245 | 145801 | 0 |
| Ni | 62 | 52.945 | ug/L | 0.674 | 1 | 105 | 21828 | 1 |
| Cu | 63 | 53.295 | ug/L | 0.421 | 0 | 383 | 328625 | 0 |
| Cu | 65 | 52.768 | ug/L | 0.403 | 0 | 170 | 155567 | 0 |
| Zn | 66 | 54.030 | ug/L | 0.257 | 0 | 1085 | 109316 | 0 |
| Zn | 67 | 53.118 | ug/L | 0.715 | 1 | 198 | 18098 | 1 |
| Zn | 68 | 52.931 | ug/L | 0.193 | 0 | 5977 | 80430 | 0 |
| As-1 | 75 | 51.678 | ug/L | 0.336 | 0 | -74 | 83485 | 0 |
| As | 75 | 50.996 | ug/L | 0.513 | 1 | 6996 | 90527 | 1 |
| Se | 82 | 53.063 | ug/L | 0.335 | 0 | 1 | 8872 | 0 |
| Se | 78 | 50.503 | ug/L | 0.538 | 1 | 7341 | 29906 | 0 |
| [Mo | 98 | 52.759 | ug/L | 0.292 | 0 | 46 | 243759 | 0 |
| Y | 89 | | ug/L | | | 225299 | 213144 | 0 |
| Kr | 83 | | ug/L | | | 114 | 139 | 3 |
| > In | 115 | | ug/L | | | 375372 | 354783 | 0 |
| Ag | 107 | 51.190 | ug/L | 0.153 | 0 | 107 | 562178 | 0 |
| Cd | 111 | 50.944 | ug/L | 0.261 | 0 | 173 | 142012 | 0 |
| Cd | 114 | 50.780 | ug/L | 0.056 | 0 | 42 | 346841 | 0 |
| Sb | 121 | 50.178 | ug/L | 0.252 | 0 | 173 | 493013 | 0 |
| Sb | 123 | 50.185 | ug/L | 0.299 | 0 | 126 | 381573 | 0 |
| Ba | 135 | 49.817 | ug/L | 0.314 | 0 | 45 | 125047 | 0 |
| [Ba | 137 | 49.810 | ug/L | 0.132 | 0 | 70 | 214148 | 0 |
| > Tb | 159 | | ug/L | | | 385510 | 362044 | 0 |
| Tl | 205 | 50.693 | ug/L | 0.255 | 0 | 193 | 1052205 | 0 |
| Pb | 208 | 50.751 | ug/L | 0.315 | 0 | 674 | 1473328 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 245772 | 0 |
| Th | 232 | 51.576 | ug/L | 0.279 | 0 | 1058 | 2221028 | 0 |
| [U | 238 | 51.216 | ug/L | 0.507 | 0 | 98 | 2321299 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 14:54:57

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 478179 | 0 |
| [Be | 9 | 0.004 | ug/L | 0.008 | 218 | 1 | 3 | 114 |
| C | 13 | | mg/L | | | 4352 | 4222 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2391053 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 234398 | 0 |
| [V-1 | 51 | 0.002 | ug/L | 0.010 | 578 | 2135 | 2043 | 5 |
| [V | 51 | -0.001 | ug/L | 0.001 | 144 | 512 | 476 | 3 |
| [Cr | 52 | -0.010 | ug/L | 0.017 | 163 | 6500 | 6059 | 3 |
| [Cr | 53 | -0.017 | ug/L | 0.010 | 56 | 215 | 183 | 6 |
| [Mn | 55 | -0.026 | ug/L | 0.001 | 2 | 1623 | 1085 | 1 |
| [Co | 59 | 0.003 | ug/L | 0.002 | 65 | 141 | 171 | 13 |
| [> Ge | 72 | | ug/L | | | 339437 | 322417 | 0 |
| [Ni | 60 | -0.010 | ug/L | 0.003 | 31 | 245 | 205 | 4 |
| [Ni | 62 | -0.024 | ug/L | 0.016 | 65 | 105 | 90 | 6 |
| [Cu | 63 | -0.001 | ug/L | 0.001 | 140 | 383 | 357 | 2 |
| [Cu | 65 | -0.003 | ug/L | 0.004 | 120 | 170 | 151 | 7 |
| [Zn | 66 | -0.020 | ug/L | 0.010 | 48 | 1085 | 990 | 2 |
| [Zn | 67 | -0.008 | ug/L | 0.046 | 604 | 198 | 186 | 8 |
| [Zn | 68 | -0.151 | ug/L | 0.066 | 44 | 5977 | 5466 | 1 |
| [As-1 | 75 | 0.031 | ug/L | 0.039 | 124 | -74 | -20 | 305 |
| [As | 75 | -0.058 | ug/L | 0.027 | 45 | 6996 | 6550 | 0 |
| [Se | 82 | -0.026 | ug/L | 0.034 | 130 | 1 | -2 | 194 |
| [Se | 78 | -0.278 | ug/L | 0.048 | 17 | 7341 | 6847 | 0 |
| [Mo | 98 | 0.008 | ug/L | 0.004 | 56 | 46 | 80 | 25 |
| [Y | 89 | | ug/L | | | 225299 | 213436 | 0 |
| [Kr | 83 | | ug/L | | | 114 | 121 | 10 |
| [> In | 115 | | ug/L | | | 375372 | 356389 | 0 |
| [Ag | 107 | 0.007 | ug/L | 0.002 | 28 | 107 | 184 | 12 |
| [Cd | 111 | 0.004 | ug/L | 0.003 | 80 | 173 | 175 | 4 |
| [Cd | 114 | 0.001 | ug/L | 0.001 | 38 | 42 | 50 | 7 |
| [Sb | 121 | 0.017 | ug/L | 0.006 | 33 | 173 | 328 | 16 |
| [Sb | 123 | 0.023 | ug/L | 0.004 | 18 | 126 | 295 | 10 |
| [Ba | 135 | 0.002 | ug/L | 0.001 | 50 | 45 | 47 | 5 |
| [Ba | 137 | 0.005 | ug/L | 0.003 | 53 | 70 | 88 | 13 |
| [> Tb | 159 | | ug/L | | | 385510 | 365381 | 0 |
| [Tl | 205 | 0.005 | ug/L | 0.003 | 55 | 193 | 282 | 19 |
| [Pb | 208 | 0.004 | ug/L | 0.002 | 53 | 674 | 743 | 7 |
| [Bi | 209 | | ug/L | | | 257412 | 250070 | 0 |
| [Th | 232 | 0.033 | ug/L | 0.006 | 18 | 1058 | 2424 | 10 |
| [U | 238 | 0.007 | ug/L | 0.002 | 28 | 98 | 394 | 21 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:05:33

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 499258 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.003 | 149 | 1 | 2 | 50 |
| C | 13 | | mg/L | | | 4352 | 5310 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2294099 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 238651 | 0 |
| V-1 | 51 | 0.010 | ug/L | 0.003 | 29 | 2135 | 2171 | 1 |
| V | 51 | -0.000 | ug/L | 0.003 | 845 | 512 | 491 | 7 |
| Cr | 52 | 0.014 | ug/L | 0.010 | 75 | 6500 | 6416 | 2 |
| Cr | 53 | -0.017 | ug/L | 0.015 | 90 | 215 | 187 | 10 |
| Mn | 55 | -0.006 | ug/L | 0.000 | 6 | 1623 | 1454 | 0 |
| Co | 59 | -0.001 | ug/L | 0.001 | 38 | 141 | 117 | 5 |
| [> Ge | 72 | | ug/L | | | 339437 | 325997 | 0 |
| Ni | 60 | 0.005 | ug/L | 0.004 | 86 | 245 | 247 | 4 |
| Ni | 62 | -0.025 | ug/L | 0.030 | 117 | 105 | 90 | 13 |
| Cu | 63 | 0.313 | ug/L | 0.010 | 3 | 383 | 2307 | 2 |
| Cu | 65 | 0.315 | ug/L | 0.003 | 0 | 170 | 1095 | 0 |
| Zn | 66 | 1.669 | ug/L | 0.017 | 1 | 1085 | 4406 | 1 |
| Zn | 67 | 1.455 | ug/L | 0.139 | 9 | 198 | 684 | 6 |
| Zn | 68 | 1.459 | ug/L | 0.084 | 5 | 5977 | 7812 | 1 |
| As-1 | 75 | 0.019 | ug/L | 0.017 | 87 | -74 | -40 | 69 |
| As | 75 | -0.178 | ug/L | 0.003 | 1 | 6996 | 6424 | 0 |
| Se | 82 | 0.036 | ug/L | 0.050 | 138 | 1 | 7 | 111 |
| Se | 78 | -0.644 | ug/L | 0.047 | 7 | 7341 | 6756 | 0 |
| Mo | 98 | 0.005 | ug/L | 0.002 | 48 | 46 | 67 | 17 |
| Y | 89 | | ug/L | | | 225299 | 218266 | 0 |
| Kr | 83 | | ug/L | | | 114 | 116 | 2 |
| [> In | 115 | | ug/L | | | 375372 | 364994 | 0 |
| Ag | 107 | -0.001 | ug/L | 0.000 | 47 | 107 | 95 | 5 |
| Cd | 111 | -0.001 | ug/L | 0.008 | 774 | 173 | 165 | 14 |
| Cd | 114 | -0.001 | ug/L | 0.001 | 217 | 42 | 36 | 25 |
| Sb | 121 | -0.006 | ug/L | 0.000 | 1 | 173 | 108 | 0 |
| Sb | 123 | -0.007 | ug/L | 0.001 | 8 | 126 | 69 | 7 |
| Ba | 135 | 0.012 | ug/L | 0.008 | 67 | 45 | 75 | 28 |
| Ba | 137 | 0.017 | ug/L | 0.007 | 41 | 70 | 145 | 21 |
| [> Tb | 159 | | ug/L | | | 385510 | 377929 | 0 |
| Tl | 205 | -0.005 | ug/L | 0.001 | 17 | 193 | 72 | 29 |
| Pb | 208 | 0.005 | ug/L | 0.002 | 49 | 674 | 798 | 8 |
| Bi | 209 | | ug/L | | | 257412 | 257265 | 0 |
| Th | 232 | -0.001 | ug/L | 0.002 | 160 | 1058 | 986 | 8 |
| U | 238 | -0.000 | ug/L | 0.000 | 67 | 98 | 81 | 12 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:12:25

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 501654 | 0 |
| [Be | 9 | 23.457 | ug/L | 0.184 | 0 | 1 | 11413 | 0 |
| C | 13 | | mg/L | | | 4352 | 6337 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2291975 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 238907 | 0 |
| V-1 | 51 | 24.982 | ug/L | 0.158 | 0 | 2135 | 283091 | 0 |
| V | 51 | 24.974 | ug/L | 0.119 | 0 | 512 | 288266 | 0 |
| Cr | 52 | 25.511 | ug/L | 0.086 | 0 | 6500 | 265789 | 0 |
| Cr | 53 | 25.448 | ug/L | 0.107 | 0 | 215 | 31689 | 0 |
| Mn | 55 | 25.348 | ug/L | 0.094 | 0 | 1623 | 458697 | 0 |
| [Co | 59 | 25.341 | ug/L | 0.109 | 0 | 141 | 359015 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 325450 | 0 |
| Ni | 60 | 27.309 | ug/L | 0.057 | 0 | 245 | 74634 | 0 |
| Ni | 62 | 27.560 | ug/L | 0.075 | 0 | 105 | 11458 | 0 |
| Cu | 63 | 27.705 | ug/L | 0.135 | 0 | 383 | 171729 | 0 |
| Cu | 65 | 27.551 | ug/L | 0.071 | 0 | 170 | 81645 | 0 |
| Zn | 66 | 83.013 | ug/L | 0.564 | 0 | 1085 | 168105 | 0 |
| Zn | 67 | 75.613 | ug/L | 0.841 | 1 | 198 | 25789 | 0 |
| Zn | 68 | 80.962 | ug/L | 0.329 | 0 | 5977 | 120505 | 0 |
| As-1 | 75 | 24.910 | ug/L | 0.250 | 1 | -74 | 40373 | 1 |
| As | 75 | 24.734 | ug/L | 0.211 | 0 | 6996 | 47547 | 0 |
| Se | 82 | 79.334 | ug/L | 0.473 | 0 | 1 | 13320 | 0 |
| Se | 78 | 75.271 | ug/L | 0.609 | 0 | 7341 | 41307 | 0 |
| [Mo | 98 | 0.041 | ug/L | 0.002 | 4 | 46 | 233 | 4 |
| Y | 89 | | ug/L | | | 225299 | 217610 | 0 |
| Kr | 83 | | ug/L | | | 114 | 129 | 7 |
| [> In | 115 | | ug/L | | | 375372 | 364077 | 0 |
| Ag | 107 | 24.488 | ug/L | 0.132 | 0 | 107 | 276024 | 0 |
| Cd | 111 | 24.791 | ug/L | 0.223 | 0 | 173 | 71002 | 0 |
| Cd | 114 | 24.643 | ug/L | 0.150 | 0 | 42 | 172746 | 0 |
| Sb | 121 | 0.001 | ug/L | 0.001 | 67 | 173 | 178 | 4 |
| Sb | 123 | 0.004 | ug/L | 0.000 | 4 | 126 | 150 | 0 |
| Ba | 135 | 24.710 | ug/L | 0.165 | 0 | 45 | 63670 | 0 |
| [Ba | 137 | 24.871 | ug/L | 0.094 | 0 | 70 | 109762 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 376089 | 0 |
| Tl | 205 | 24.992 | ug/L | 0.062 | 0 | 193 | 538974 | 0 |
| Pb | 208 | 25.250 | ug/L | 0.085 | 0 | 674 | 761789 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 257678 | 0 |
| Th | 232 | 23.834 | ug/L | 0.169 | 0 | 1058 | 1066732 | 0 |
| [U | 238 | 23.768 | ug/L | 0.278 | 1 | 98 | 1119056 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ17 J RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:19:17

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 476124 | 1 |
| [Be | 9 | 0.004 | ug/L | 0.006 | 149 | 1 | 3 | 78 |
| C | 13 | | mg/L | | | 4352 | 7153 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2324683 | 1 |
| > Sc | 45 | | ug/L | | | 247193 | 443952 | 0 |
| V-1 | 51 | 0.588 | ug/L | 0.005 | 0 | 2135 | 16125 | 0 |
| V | 51 | 0.812 | ug/L | 0.009 | 1 | 512 | 18319 | 1 |
| Cr | 52 | 0.012 | ug/L | 0.007 | 63 | 6500 | 11893 | 1 |
| Cr | 53 | 0.721 | ug/L | 0.029 | 4 | 215 | 2045 | 3 |
| Mn | 55 | 1191.651 | ug/L | 1.326 | 0 | 1623 | 39938097 | 0 |
| [Co | 59 | 1.598 | ug/L | 0.008 | 0 | 141 | 42311 | 0 |
| > Ge | 72 | | ug/L | | | 339437 | 294148 | 0 |
| Ni | 60 | 10.762 | ug/L | 0.063 | 0 | 245 | 26711 | 0 |
| Ni | 62 | 6.959 | ug/L | 0.242 | 3 | 105 | 2683 | 3 |
| Cu | 63 | 1.473 | ug/L | 0.016 | 1 | 383 | 8564 | 1 |
| Cu | 65 | 1.206 | ug/L | 0.013 | 1 | 170 | 3372 | 1 |
| Zn | 66 | 2.062 | ug/L | 0.030 | 1 | 1085 | 4691 | 1 |
| Zn | 67 | 2.648 | ug/L | 0.142 | 5 | 198 | 982 | 4 |
| Zn | 68 | 4.773 | ug/L | 0.055 | 1 | 5977 | 11295 | 0 |
| As-1 | 75 | 3.935 | ug/L | 0.023 | 0 | -74 | 5709 | 0 |
| As | 75 | 3.052 | ug/L | 0.057 | 1 | 6996 | 10617 | 0 |
| Se | 82 | 2.311 | ug/L | 0.017 | 0 | 1 | 351 | 0 |
| Se | 78 | -0.708 | ug/L | 0.104 | 14 | 7341 | 6070 | 0 |
| [Mo | 98 | 2.726 | ug/L | 0.020 | 0 | 46 | 11469 | 0 |
| Y | 89 | | ug/L | | | 225299 | 219500 | 0 |
| Kr | 83 | | ug/L | | | 114 | 112 | 1 |
| > In | 115 | | ug/L | | | 375372 | 330301 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.002 | 57 | 107 | 124 | 12 |
| Cd | 111 | 0.077 | ug/L | 0.007 | 8 | 173 | 351 | 5 |
| Cd | 114 | 0.060 | ug/L | 0.005 | 8 | 42 | 415 | 7 |
| Sb | 121 | 0.030 | ug/L | 0.003 | 8 | 173 | 428 | 4 |
| Sb | 123 | 0.031 | ug/L | 0.003 | 11 | 126 | 330 | 7 |
| Ba | 135 | 38.902 | ug/L | 0.312 | 0 | 45 | 90919 | 1 |
| [Ba | 137 | 38.858 | ug/L | 0.382 | 0 | 70 | 155539 | 0 |
| > Tb | 159 | | ug/L | | | 385510 | 340691 | 0 |
| Tl | 205 | 0.018 | ug/L | 0.001 | 5 | 193 | 513 | 4 |
| Pb | 208 | 0.022 | ug/L | 0.001 | 2 | 674 | 1185 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 224587 | 0 |
| Th | 232 | 0.052 | ug/L | 0.003 | 5 | 1058 | 3042 | 3 |
| [U | 238 | 0.286 | ug/L | 0.006 | 2 | 98 | 12267 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ17 E RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:26:05

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 508008 | 1 |
| [Be | 9 | 0.002 | ug/L | 0.005 | 311 | 1 | 2 | 100 |
| C | 13 | | mg/L | | | 4352 | 7089 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2242402 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 350034 | 0 |
| V-1 | 51 | 0.422 | ug/L | 0.003 | 0 | 2135 | 9986 | 0 |
| V | 51 | 0.516 | ug/L | 0.006 | 1 | 512 | 9432 | 0 |
| Cr | 52 | -0.080 | ug/L | 0.003 | 4 | 6500 | 8013 | 1 |
| Cr | 53 | 0.233 | ug/L | 0.011 | 4 | 215 | 728 | 2 |
| Mn | 55 | 3863.080 | ug/L | 16.593 | 0 | 1623 | 102077080 | 0 |
| [Co | 59 | 1.931 | ug/L | 0.012 | 0 | 141 | 40259 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 305658 | 0 |
| Ni | 60 | 4.231 | ug/L | 0.072 | 1 | 245 | 11048 | 2 |
| Ni | 62 | 2.030 | ug/L | 0.076 | 3 | 105 | 880 | 2 |
| Cu | 63 | 1.705 | ug/L | 0.024 | 1 | 383 | 10250 | 0 |
| Cu | 65 | 1.665 | ug/L | 0.010 | 0 | 170 | 4778 | 0 |
| Zn | 66 | 5.283 | ug/L | 0.071 | 1 | 1085 | 10962 | 1 |
| Zn | 67 | 5.537 | ug/L | 0.225 | 4 | 198 | 1939 | 4 |
| Zn | 68 | 6.656 | ug/L | 0.072 | 1 | 5977 | 14244 | 0 |
| As-1 | 75 | 0.928 | ug/L | 0.029 | 3 | -74 | 1348 | 2 |
| As | 75 | 0.413 | ug/L | 0.037 | 8 | 6996 | 6940 | 0 |
| Se | 82 | 0.857 | ug/L | 0.011 | 1 | 1 | 136 | 1 |
| Se | 78 | -0.913 | ug/L | 0.086 | 9 | 7341 | 6220 | 0 |
| [Mo | 98 | 0.511 | ug/L | 0.007 | 1 | 46 | 2266 | 1 |
| Y | 89 | | ug/L | | | 225299 | 215722 | 0 |
| Kr | 83 | | ug/L | | | 114 | 118 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 346096 | 0 |
| Ag | 107 | -0.004 | ug/L | 0.001 | 22 | 107 | 55 | 18 |
| Cd | 111 | 0.081 | ug/L | 0.003 | 4 | 173 | 380 | 2 |
| Cd | 114 | 0.060 | ug/L | 0.005 | 7 | 42 | 435 | 6 |
| Sb | 121 | 0.033 | ug/L | 0.002 | 5 | 173 | 480 | 3 |
| Sb | 123 | 0.035 | ug/L | 0.003 | 8 | 126 | 376 | 6 |
| Ba | 135 | 38.780 | ug/L | 0.032 | 0 | 45 | 94970 | 0 |
| [Ba | 137 | 38.945 | ug/L | 0.208 | 0 | 70 | 163347 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 356581 | 0 |
| Tl | 205 | 0.029 | ug/L | 0.001 | 4 | 193 | 781 | 3 |
| Pb | 208 | 0.010 | ug/L | 0.002 | 19 | 674 | 918 | 6 |
| Bi | 209 | | ug/L | | | 257412 | 233795 | 0 |
| Th | 232 | 0.000 | ug/L | 0.003 | 4006 | 1058 | 981 | 11 |
| [U | 238 | 0.028 | ug/L | 0.001 | 1 | 98 | 1358 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 CDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:32:50

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 529089 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.007 | 149 | 1 | 4 | 86 |
| C | 13 | | mg/L | | | 4352 | 7044 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2350897 | 1 |
| [> Sc | 45 | | ug/L | | | 247193 | 247419 | 0 |
| V-1 | 51 | 0.789 | ug/L | 0.007 | 0 | 2135 | 11326 | 1 |
| V | 51 | 0.801 | ug/L | 0.008 | 1 | 512 | 10072 | 1 |
| Cr | 52 | 1.379 | ug/L | 0.037 | 2 | 6500 | 21029 | 1 |
| Cr | 53 | 1.373 | ug/L | 0.031 | 2 | 215 | 1975 | 1 |
| Mn | 55 | 13.522 | ug/L | 0.241 | 1 | 1623 | 254153 | 1 |
| [Co | 59 | 0.155 | ug/L | 0.003 | 2 | 141 | 2419 | 1 |
| [> Ge | 72 | | ug/L | | | 339437 | 329473 | 0 |
| Ni | 60 | 0.629 | ug/L | 0.024 | 3 | 245 | 1972 | 3 |
| Ni | 62 | 0.708 | ug/L | 0.075 | 10 | 105 | 397 | 7 |
| Cu | 63 | 3.950 | ug/L | 0.026 | 0 | 383 | 25106 | 0 |
| Cu | 65 | 3.894 | ug/L | 0.045 | 1 | 170 | 11824 | 1 |
| Zn | 66 | 14.896 | ug/L | 0.069 | 0 | 1085 | 31402 | 0 |
| Zn | 67 | 13.276 | ug/L | 0.173 | 1 | 198 | 4743 | 1 |
| Zn | 68 | 14.261 | ug/L | 0.143 | 1 | 5977 | 26269 | 0 |
| As-1 | 75 | 0.483 | ug/L | 0.009 | 1 | -74 | 721 | 2 |
| As | 75 | 0.084 | ug/L | 0.036 | 42 | 6996 | 6932 | 0 |
| Se | 82 | 0.066 | ug/L | 0.050 | 75 | 1 | 12 | 66 |
| Se | 78 | -1.259 | ug/L | 0.144 | 11 | 7341 | 6545 | 0 |
| [Mo | 98 | 0.142 | ug/L | 0.017 | 12 | 46 | 711 | 11 |
| Y | 89 | | ug/L | | | 225299 | 224282 | 0 |
| Kr | 83 | | ug/L | | | 114 | 127 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 368010 | 1 |
| Ag | 107 | 0.000 | ug/L | 0.001 | 1027 | 107 | 107 | 16 |
| Cd | 111 | 0.032 | ug/L | 0.007 | 21 | 173 | 263 | 7 |
| Cd | 114 | 0.034 | ug/L | 0.003 | 9 | 42 | 279 | 9 |
| Sb | 121 | 0.114 | ug/L | 0.002 | 1 | 173 | 1327 | 1 |
| Sb | 123 | 0.105 | ug/L | 0.006 | 5 | 126 | 954 | 3 |
| Ba | 135 | 3.967 | ug/L | 0.055 | 1 | 45 | 10368 | 0 |
| [Ba | 137 | 3.911 | ug/L | 0.065 | 1 | 70 | 17503 | 1 |
| [> Tb | 159 | | ug/L | | | 385510 | 381848 | 0 |
| Tl | 205 | -0.002 | ug/L | 0.001 | 51 | 193 | 137 | 19 |
| Pb | 208 | 3.757 | ug/L | 0.024 | 0 | 674 | 115658 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 257015 | 0 |
| Th | 232 | 0.008 | ug/L | 0.001 | 9 | 1058 | 1429 | 2 |
| [U | 238 | 0.008 | ug/L | 0.000 | 2 | 98 | 497 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:45:27

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 514328 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.006 | 193 | 1 | 3 | 94 |
| C | 13 | | mg/L | | | 4352 | 6789 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2310691 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 241618 | 0 |
| V-1 | 51 | 0.776 | ug/L | 0.009 | 1 | 2135 | 10917 | 0 |
| V | 51 | 0.801 | ug/L | 0.004 | 0 | 512 | 9834 | 0 |
| Cr | 52 | 1.404 | ug/L | 0.009 | 0 | 6500 | 20803 | 1 |
| Cr | 53 | 1.434 | ug/L | 0.025 | 1 | 215 | 2004 | 1 |
| Mn | 55 | 12.673 | ug/L | 0.096 | 0 | 1623 | 232728 | 0 |
| [Co | 59 | 0.155 | ug/L | 0.004 | 2 | 141 | 2365 | 2 |
| [> Ge | 72 | | ug/L | | | 339437 | 325282 | 0 |
| Ni | 60 | 0.648 | ug/L | 0.036 | 5 | 245 | 1999 | 4 |
| Ni | 62 | 0.760 | ug/L | 0.029 | 3 | 105 | 413 | 2 |
| Cu | 63 | 3.866 | ug/L | 0.018 | 0 | 383 | 24266 | 0 |
| Cu | 65 | 3.809 | ug/L | 0.036 | 0 | 170 | 11423 | 0 |
| Zn | 66 | 14.465 | ug/L | 0.099 | 0 | 1085 | 30135 | 0 |
| Zn | 67 | 13.141 | ug/L | 0.290 | 2 | 198 | 4637 | 2 |
| Zn | 68 | 13.810 | ug/L | 0.120 | 0 | 5977 | 25296 | 0 |
| As-1 | 75 | 0.703 | ug/L | 0.037 | 5 | -74 | 1068 | 5 |
| As | 75 | 0.387 | ug/L | 0.036 | 9 | 6996 | 7343 | 0 |
| Se | 82 | 0.082 | ug/L | 0.035 | 42 | 1 | 15 | 38 |
| Se | 78 | -0.956 | ug/L | 0.055 | 5 | 7341 | 6599 | 0 |
| [Mo | 98 | 0.138 | ug/L | 0.005 | 3 | 46 | 685 | 2 |
| Y | 89 | | ug/L | | | 225299 | 222409 | 0 |
| Kr | 83 | | ug/L | | | 114 | 121 | 1 |
| [> In | 115 | | ug/L | | | 375372 | 362961 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 127 | 107 | 114 | 11 |
| Cd | 111 | 0.041 | ug/L | 0.002 | 5 | 173 | 286 | 2 |
| Cd | 114 | 0.031 | ug/L | 0.005 | 15 | 42 | 256 | 13 |
| Sb | 121 | 0.114 | ug/L | 0.004 | 3 | 173 | 1316 | 2 |
| Sb | 123 | 0.109 | ug/L | 0.006 | 5 | 126 | 972 | 5 |
| Ba | 135 | 3.855 | ug/L | 0.046 | 1 | 45 | 9940 | 1 |
| [Ba | 137 | 3.870 | ug/L | 0.041 | 1 | 70 | 17084 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 375766 | 0 |
| Tl | 205 | -0.004 | ug/L | 0.001 | 22 | 193 | 104 | 18 |
| Pb | 208 | 3.641 | ug/L | 0.012 | 0 | 674 | 110329 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 254513 | 0 |
| Th | 232 | 0.014 | ug/L | 0.001 | 9 | 1058 | 1663 | 4 |
| [U | 238 | 0.008 | ug/L | 0.000 | 2 | 98 | 457 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 CSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:52:13

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 519538 | 0 |
| [Be | 9 | 23.540 | ug/L | 0.127 | 0 | 1 | 11863 | 0 |
| C | 13 | | mg/L | | | 4352 | 6840 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2307349 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 243331 | 0 |
| V-1 | 51 | 25.816 | ug/L | 0.076 | 0 | 2135 | 297891 | 0 |
| V | 51 | 25.847 | ug/L | 0.103 | 0 | 512 | 303854 | 0 |
| Cr | 52 | 26.690 | ug/L | 0.176 | 0 | 6500 | 282926 | 0 |
| Cr | 53 | 26.720 | ug/L | 0.249 | 0 | 215 | 33877 | 0 |
| Mn | 55 | 38.079 | ug/L | 0.282 | 0 | 1623 | 701016 | 0 |
| Co | 59 | 25.279 | ug/L | 0.202 | 0 | 141 | 364768 | 0 |
| > Ge | 72 | | ug/L | | | 339437 | 324722 | 0 |
| Ni | 60 | 28.342 | ug/L | 0.140 | 0 | 245 | 77273 | 0 |
| Ni | 62 | 28.074 | ug/L | 0.392 | 1 | 105 | 11645 | 1 |
| Cu | 63 | 31.891 | ug/L | 0.163 | 0 | 383 | 197176 | 0 |
| Cu | 65 | 31.729 | ug/L | 0.082 | 0 | 170 | 93791 | 0 |
| Zn | 66 | 97.985 | ug/L | 0.790 | 0 | 1085 | 197790 | 0 |
| Zn | 67 | 89.364 | ug/L | 0.099 | 0 | 198 | 30377 | 0 |
| Zn | 68 | 95.296 | ug/L | 0.705 | 0 | 5977 | 140506 | 0 |
| As-1 | 75 | 25.546 | ug/L | 0.226 | 0 | -74 | 41312 | 0 |
| As | 75 | 25.330 | ug/L | 0.329 | 1 | 6996 | 48420 | 0 |
| Se | 82 | 78.976 | ug/L | 0.578 | 0 | 1 | 13230 | 0 |
| Se | 78 | 74.881 | ug/L | 0.834 | 1 | 7341 | 41037 | 0 |
| [Mo | 98 | 0.169 | ug/L | 0.010 | 6 | 46 | 828 | 6 |
| Y | 89 | | ug/L | | | 225299 | 222015 | 0 |
| Kr | 83 | | ug/L | | | 114 | 139 | 2 |
| > In | 115 | | ug/L | | | 375372 | 364764 | 0 |
| Ag | 107 | 24.381 | ug/L | 0.068 | 0 | 107 | 275339 | 0 |
| Cd | 111 | 24.861 | ug/L | 0.105 | 0 | 173 | 71337 | 0 |
| Cd | 114 | 24.817 | ug/L | 0.059 | 0 | 42 | 174297 | 0 |
| Sb | 121 | 0.118 | ug/L | 0.007 | 5 | 173 | 1359 | 4 |
| Sb | 123 | 0.123 | ug/L | 0.002 | 1 | 126 | 1082 | 1 |
| Ba | 135 | 28.934 | ug/L | 0.155 | 0 | 45 | 74689 | 0 |
| Ba | 137 | 29.032 | ug/L | 0.066 | 0 | 70 | 128357 | 0 |
| > Tb | 159 | | ug/L | | | 385510 | 377601 | 0 |
| Tl | 205 | 25.208 | ug/L | 0.264 | 1 | 193 | 545792 | 0 |
| Pb | 208 | 29.144 | ug/L | 0.231 | 0 | 674 | 882699 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 257214 | 0 |
| Th | 232 | 21.768 | ug/L | 0.120 | 0 | 1058 | 978285 | 0 |
| [U | 238 | 24.007 | ug/L | 0.110 | 0 | 98 | 1134876 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 GDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 15:59:00

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|-----------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 527374 | 0 |
| [Be | 9 | 0.001 | ug/L | 0.004 | 563 | 1 | 2 | 91 |
| C | 13 | | mg/L | | | 4352 | 7088 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2242381 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 243990 | 0 |
| V-1 | 51 | 0.267 | ug/L | 0.017 | 6 | 2135 | 5175 | 3 |
| V | 51 | 0.277 | ug/L | 0.010 | 3 | 512 | 3766 | 3 |
| Cr | 52 | 0.235 | ug/L | 0.023 | 9 | 6500 | 8856 | 2 |
| Cr | 53 | 0.267 | ug/L | 0.021 | 7 | 215 | 550 | 5 |
| Mn | 55 | 1.905 | ug/L | 0.001 | 0 | 1623 | 36692 | 0 |
| [Co | 59 | 0.016 | ug/L | 0.002 | 13 | 141 | 374 | 8 |
| [> Ge | 72 | | ug/L | | | 339437 | 324461 | 0 |
| Ni | 60 | 0.322 | ug/L | 0.017 | 5 | 245 | 1107 | 4 |
| Ni | 62 | 0.261 | ug/L | 0.054 | 20 | 105 | 207 | 10 |
| Cu | 63 | 1.496 | ug/L | 0.026 | 1 | 383 | 9589 | 1 |
| Cu | 65 | 1.468 | ug/L | 0.014 | 0 | 170 | 4492 | 1 |
| Zn | 66 | 7.182 | ug/L | 0.033 | 0 | 1085 | 15447 | 0 |
| Zn | 67 | 6.524 | ug/L | 0.151 | 2 | 198 | 2391 | 1 |
| Zn | 68 | 6.707 | ug/L | 0.028 | 0 | 5977 | 15193 | 0 |
| As-1 | 75 | 0.252 | ug/L | 0.044 | 17 | -74 | 335 | 21 |
| As | 75 | <i>M</i> -0.069 | ug/L | 0.020 | 29 | 6996 | 6574 | 0 |
| Se | 82 | 0.092 | ug/L | 0.059 | 63 | 1 | 16 | 58 |
| Se | 78 | -1.000 | ug/L | 0.113 | 11 | 7341 | 6563 | 1 |
| [Mo | 98 | 0.076 | ug/L | 0.006 | 7 | 46 | 394 | 7 |
| Y | 89 | | ug/L | | | 225299 | 220625 | 1 |
| Kr | 83 | | ug/L | | | 114 | 119 | 8 |
| [> In | 115 | | ug/L | | | 375372 | 365245 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.001 | 37 | 107 | 133 | 7 |
| Cd | 111 | 0.010 | ug/L | 0.003 | 35 | 173 | 196 | 5 |
| Cd | 114 | 0.011 | ug/L | 0.002 | 17 | 42 | 120 | 11 |
| Sb | 121 | 0.055 | ug/L | 0.004 | 6 | 173 | 724 | 5 |
| Sb | 123 | 0.055 | ug/L | 0.005 | 9 | 126 | 555 | 7 |
| Ba | 135 | 1.540 | ug/L | 0.028 | 1 | 45 | 4022 | 1 |
| [Ba | 137 | 1.553 | ug/L | 0.012 | 0 | 70 | 6938 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 381960 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 76 | 193 | 163 | 13 |
| Pb | 208 | 0.083 | ug/L | 0.001 | 1 | 674 | 3204 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 255709 | 0 |
| Th | 232 | 0.025 | ug/L | 0.002 | 6 | 1058 | 2203 | 3 |
| [U | 238 | 0.005 | ug/L | 0.001 | 32 | 98 | 315 | 22 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:05:47

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 525631 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.009 | 179 | 1 | 4 | 105 |
| C | 13 | | mg/L | | | 4352 | 6939 | 0 |
| Cl | 37 | | mg/L | | | 2511613 | 2235681 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 242411 | 0 |
| V-1 | 51 | 0.260 | ug/L | 0.011 | 4 | 2135 | 5059 | 2 |
| V | 51 | 0.270 | ug/L | 0.005 | 1 | 512 | 3658 | 1 |
| Cr | 52 | 0.268 | ug/L | 0.003 | 1 | 6500 | 9139 | 0 |
| Cr | 53 | 0.297 | ug/L | 0.021 | 7 | 215 | 584 | 4 |
| Mn | 55 | 1.853 | ug/L | 0.010 | 0 | 1623 | 35504 | 0 |
| [Co | 59 | 0.011 | ug/L | 0.001 | 8 | 141 | 301 | 4 |
| > Ge | 72 | | ug/L | | | 339437 | 324291 | 0 |
| [Ni | 60 | 0.322 | ug/L | 0.002 | 0 | 245 | 1107 | 0 |
| [Ni | 62 | 0.265 | ug/L | 0.041 | 15 | 105 | 209 | 8 |
| [Cu | 63 | 1.544 | ug/L | 0.030 | 1 | 383 | 9883 | 1 |
| [Cu | 65 | 1.500 | ug/L | 0.033 | 2 | 170 | 4582 | 1 |
| [Zn | 66 | 7.450 | ug/L | 0.054 | 0 | 1085 | 15977 | 0 |
| [Zn | 67 | 6.784 | ug/L | 0.341 | 5 | 198 | 2478 | 3 |
| [Zn | 68 | 7.033 | ug/L | 0.037 | 0 | 5977 | 15646 | 0 |
| [As-1 | 75 | 0.236 | ug/L | 0.004 | 1 | -74 | 310 | 2 |
| [As | 75 | -0.085 | ug/L | 0.023 | 27 | 6996 | 6545 | 0 |
| [Se | 82 | 0.028 | ug/L | 0.055 | 200 | 1 | 6 | 152 |
| [Se | 78 | -1.046 | ug/L | 0.115 | 11 | 7341 | 6538 | 0 |
| [Mo | 98 | 0.079 | ug/L | 0.002 | 3 | 46 | 411 | 2 |
| [Y | 89 | | ug/L | | | 225299 | 220936 | 0 |
| [Kr | 83 | | ug/L | | | 114 | 122 | 4 |
| > In | 115 | | ug/L | | | 375372 | 366340 | 0 |
| [Ag | 107 | -0.001 | ug/L | 0.001 | 113 | 107 | 93 | 13 |
| [Cd | 111 | 0.010 | ug/L | 0.006 | 61 | 173 | 197 | 9 |
| [Cd | 114 | 0.008 | ug/L | 0.002 | 25 | 42 | 100 | 15 |
| [Sb | 121 | 0.055 | ug/L | 0.003 | 5 | 173 | 724 | 4 |
| [Sb | 123 | 0.055 | ug/L | 0.004 | 7 | 126 | 558 | 5 |
| [Ba | 135 | 1.475 | ug/L | 0.014 | 0 | 45 | 3866 | 0 |
| [Ba | 137 | 1.459 | ug/L | 0.040 | 2 | 70 | 6544 | 2 |
| > Tb | 159 | | ug/L | | | 385510 | 381910 | 0 |
| [Tl | 205 | -0.005 | ug/L | 0.000 | 5 | 193 | 92 | 5 |
| [Pb | 208 | 0.078 | ug/L | 0.001 | 1 | 674 | 3070 | 1 |
| [Bi | 209 | | ug/L | | | 257412 | 255526 | 0 |
| [Th | 232 | -0.002 | ug/L | 0.002 | 129 | 1058 | 965 | 10 |
| [U | 238 | 0.001 | ug/L | 0.001 | 71 | 98 | 140 | 22 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 GSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:12:35

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 523668 | 0 |
| [Be | 9 | 21.754 | ug/L | 0.278 | 1 | 1 | 11050 | 1 |
| C | 13 | | mg/L | | | 4352 | 7289 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2250900 | 1 |
| [> Sc | 45 | | ug/L | | | 247193 | 245466 | 0 |
| V-1 | 51 | 24.082 | ug/L | 0.130 | 0 | 2135 | 280457 | 0 |
| V | 51 | 24.096 | ug/L | 0.097 | 0 | 512 | 285792 | 0 |
| Cr | 52 | 24.317 | ug/L | 0.085 | 0 | 6500 | 260613 | 0 |
| Cr | 53 | 24.343 | ug/L | 0.043 | 0 | 215 | 31155 | 0 |
| Mn | 55 | 25.896 | ug/L | 0.057 | 0 | 1623 | 481441 | 0 |
| [Co | 59 | 23.773 | ug/L | 0.045 | 0 | 141 | 346063 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 326128 | 0 |
| Ni | 60 | 26.569 | ug/L | 0.052 | 0 | 245 | 72770 | 0 |
| Ni | 62 | 26.171 | ug/L | 0.408 | 1 | 105 | 10908 | 1 |
| Cu | 63 | 27.849 | ug/L | 0.034 | 0 | 383 | 172980 | 0 |
| Cu | 65 | 27.689 | ug/L | 0.089 | 0 | 170 | 82226 | 0 |
| Zn | 66 | 81.573 | ug/L | 0.556 | 0 | 1085 | 165551 | 0 |
| Zn | 67 | 74.838 | ug/L | 0.740 | 0 | 198 | 25580 | 0 |
| Zn | 68 | 79.026 | ug/L | 0.615 | 0 | 5977 | 118004 | 0 |
| As-1 | 75 | 23.113 | ug/L | 0.285 | 1 | -74 | 37532 | 0 |
| As | 75 | 22.899 | ug/L | 0.203 | 0 | 6996 | 44608 | 0 |
| Se | 82 | 69.258 | ug/L | 0.360 | 0 | 1 | 11653 | 0 |
| Se | 78 | 65.579 | ug/L | 0.215 | 0 | 7341 | 36972 | 0 |
| [Mo | 98 | 0.094 | ug/L | 0.005 | 5 | 46 | 479 | 5 |
| Y | 89 | | ug/L | | | 225299 | 222254 | 0 |
| Kr | 83 | | ug/L | | | 114 | 128 | 0 |
| [> In | 115 | | ug/L | | | 375372 | 369142 | 0 |
| Ag | 107 | 23.048 | ug/L | 0.108 | 0 | 107 | 263409 | 0 |
| Cd | 111 | 22.903 | ug/L | 0.046 | 0 | 173 | 66521 | 0 |
| Cd | 114 | 22.650 | ug/L | 0.103 | 0 | 42 | 160988 | 0 |
| Sb | 121 | 0.065 | ug/L | 0.003 | 4 | 173 | 829 | 3 |
| Sb | 123 | 0.065 | ug/L | 0.002 | 3 | 126 | 642 | 3 |
| Ba | 135 | 24.993 | ug/L | 0.202 | 0 | 45 | 65295 | 0 |
| [Ba | 137 | 25.114 | ug/L | 0.154 | 0 | 70 | 112371 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 383754 | 0 |
| Tl | 205 | 23.719 | ug/L | 0.023 | 0 | 193 | 521955 | 0 |
| Pb | 208 | 23.936 | ug/L | 0.050 | 0 | 674 | 736913 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 259633 | 0 |
| Th | 232 | 22.651 | ug/L | 0.131 | 0 | 1058 | 1034510 | 0 |
| [U | 238 | 22.828 | ug/L | 0.148 | 0 | 98 | 1096741 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 16:20:03

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 476980 | 1 |
| [Be | 9 | 49.502 | ug/L | 1.016 | 2 | 1 | 22897 | 0 |
| C | 13 | | mg/L | | | 4352 | 3995 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2260287 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 228245 | 0 |
| V-1 | 51 | 50.527 | ug/L | 0.085 | 0 | 2135 | 544995 | 0 |
| V | 51 | 50.581 | ug/L | 0.165 | 0 | 512 | 557313 | 0 |
| Cr | 52 | 50.661 | ug/L | 0.289 | 0 | 6500 | 498354 | 0 |
| Cr | 53 | 50.812 | ug/L | 0.509 | 1 | 215 | 60253 | 1 |
| Mn | 55 | 50.769 | ug/L | 0.104 | 0 | 1623 | 876220 | 0 |
| [Co | 59 | 50.254 | ug/L | 0.126 | 0 | 141 | 680079 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 316349 | 0 |
| Ni | 60 | 53.596 | ug/L | 0.354 | 0 | 245 | 142158 | 0 |
| Ni | 62 | 52.965 | ug/L | 0.632 | 1 | 105 | 21314 | 0 |
| Cu | 63 | 52.933 | ug/L | 0.276 | 0 | 383 | 318601 | 0 |
| Cu | 65 | 52.800 | ug/L | 0.042 | 0 | 170 | 151947 | 0 |
| Zn | 66 | 53.967 | ug/L | 0.373 | 0 | 1085 | 106582 | 0 |
| Zn | 67 | 53.330 | ug/L | 0.616 | 1 | 198 | 17735 | 0 |
| Zn | 68 | 53.213 | ug/L | 0.188 | 0 | 5977 | 78897 | 0 |
| As-1 | 75 | 51.655 | ug/L | 0.169 | 0 | -74 | 81455 | 0 |
| As | 75 | 51.143 | ug/L | 0.116 | 0 | 6996 | 88601 | 0 |
| Se | 82 | 52.286 | ug/L | 0.323 | 0 | 1 | 8534 | 0 |
| Se | 78 | 50.386 | ug/L | 0.022 | 0 | 7341 | 29140 | 0 |
| [Mo | 98 | 52.943 | ug/L | 0.296 | 0 | 46 | 238768 | 0 |
| Y | 89 | | ug/L | | | 225299 | 207143 | 0 |
| Kr | 83 | | ug/L | | | 114 | 136 | 5 |
| [> In | 115 | | ug/L | | | 375372 | 345736 | 0 |
| Ag | 107 | 51.000 | ug/L | 0.271 | 0 | 107 | 545801 | 0 |
| Cd | 111 | 50.935 | ug/L | 0.104 | 0 | 173 | 138367 | 0 |
| Cd | 114 | 50.891 | ug/L | 0.180 | 0 | 42 | 338739 | 0 |
| Sb | 121 | 50.549 | ug/L | 0.200 | 0 | 173 | 483994 | 0 |
| Sb | 123 | 50.450 | ug/L | 0.093 | 0 | 126 | 373818 | 0 |
| Ba | 135 | 49.646 | ug/L | 0.279 | 0 | 45 | 121442 | 0 |
| [Ba | 137 | 49.918 | ug/L | 0.179 | 0 | 70 | 209139 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 353231 | 1 |
| Tl | 205 | 51.297 | ug/L | 0.624 | 1 | 193 | 1038732 | 0 |
| Pb | 208 | 51.336 | ug/L | 0.493 | 0 | 674 | 1453930 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 241007 | 0 |
| Th | 232 | 52.321 | ug/L | 0.426 | 0 | 1058 | 2198141 | 0 |
| [U | 238 | 51.476 | ug/L | 0.767 | 1 | 98 | 2276085 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 16:27:30

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 481615 | 0 |
| [Be | 9 | 0.001 | ug/L | 0.002 | 147 | 1 | 2 | 34 |
| C | 13 | | mg/L | | | 4352 | 4187 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2305334 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 228739 | 0 |
| V-1 | 51 | -0.008 | ug/L | 0.007 | 85 | 2135 | 1889 | 3 |
| V | 51 | -0.007 | ug/L | 0.002 | 27 | 512 | 402 | 4 |
| Cr | 52 | -0.023 | ug/L | 0.011 | 50 | 6500 | 5795 | 1 |
| Cr | 53 | -0.017 | ug/L | 0.014 | 78 | 215 | 179 | 9 |
| Mn | 55 | -0.008 | ug/L | 0.002 | 29 | 1623 | 1358 | 3 |
| [Co | 59 | 0.002 | ug/L | 0.002 | 105 | 141 | 159 | 18 |
| [> Ge | 72 | | ug/L | | | 339437 | 313455 | 0 |
| Ni | 60 | -0.022 | ug/L | 0.007 | 32 | 245 | 168 | 11 |
| Ni | 62 | -0.025 | ug/L | 0.012 | 48 | 105 | 87 | 5 |
| Cu | 63 | 0.003 | ug/L | 0.004 | 108 | 383 | 373 | 6 |
| Cu | 65 | -0.002 | ug/L | 0.006 | 237 | 170 | 150 | 10 |
| Zn | 66 | -0.041 | ug/L | 0.021 | 51 | 1085 | 921 | 4 |
| Zn | 67 | 0.005 | ug/L | 0.060 | 1294 | 198 | 185 | 10 |
| Zn | 68 | -0.229 | ug/L | 0.080 | 35 | 5977 | 5208 | 2 |
| As-1 | 75 | 0.037 | ug/L | 0.013 | 35 | -74 | -11 | 174 |
| As | 75 | -0.111 | ug/L | 0.065 | 58 | 6996 | 6284 | 1 |
| Se | 82 | -0.019 | ug/L | 0.040 | 212 | 1 | -1 | 389 |
| Se | 78 | -0.459 | ug/L | 0.215 | 46 | 7341 | 6577 | 1 |
| [Mo | 98 | 0.009 | ug/L | 0.004 | 44 | 46 | 80 | 21 |
| Y | 89 | | ug/L | | | 225299 | 208402 | 0 |
| Kr | 83 | | ug/L | | | 114 | 121 | 8 |
| [> In | 115 | | ug/L | | | 375372 | 349832 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.004 | 72 | 107 | 167 | 29 |
| Cd | 111 | 0.008 | ug/L | 0.002 | 32 | 173 | 182 | 3 |
| Cd | 114 | 0.004 | ug/L | 0.003 | 82 | 42 | 64 | 32 |
| Sb | 121 | 0.012 | ug/L | 0.004 | 29 | 173 | 279 | 12 |
| Sb | 123 | 0.014 | ug/L | 0.005 | 36 | 126 | 222 | 17 |
| Ba | 135 | -0.000 | ug/L | 0.001 | 674 | 45 | 41 | 4 |
| [Ba | 137 | 0.004 | ug/L | 0.003 | 85 | 70 | 80 | 15 |
| [> Tb | 159 | | ug/L | | | 385510 | 358559 | 0 |
| Tl | 205 | 0.007 | ug/L | 0.003 | 35 | 193 | 334 | 17 |
| Pb | 208 | 0.004 | ug/L | 0.002 | 45 | 674 | 733 | 6 |
| Bi | 209 | | ug/L | | | 257412 | 248135 | 0 |
| Th | 232 | 0.033 | ug/L | 0.004 | 10 | 1058 | 2374 | 5 |
| [U | 238 | 0.007 | ug/L | 0.002 | 28 | 98 | 402 | 22 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:34:57

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 504489 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.003 | 151 | 1 | 2 | 50 |
| C | 13 | | mg/L | | | 4352 | 5671 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2210122 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 236837 | 0 |
| V-1 | 51 | -0.000 | ug/L | 0.004 | 3100 | 2135 | 2044 | 2 |
| V | 51 | -0.002 | ug/L | 0.002 | 72 | 512 | 462 | 4 |
| Cr | 52 | 0.007 | ug/L | 0.005 | 73 | 6500 | 6296 | 0 |
| Cr | 53 | -0.001 | ug/L | 0.012 | 1541 | 215 | 205 | 7 |
| Mn | 55 | 0.020 | ug/L | 0.003 | 13 | 1623 | 1918 | 2 |
| [Co | 59 | 0.003 | ug/L | 0.001 | 19 | 141 | 172 | 3 |
| [> Ge | 72 | | ug/L | | | 339437 | 318547 | 0 |
| Ni | 60 | 0.005 | ug/L | 0.013 | 296 | 245 | 242 | 15 |
| Ni | 62 | -0.002 | ug/L | 0.040 | 1614 | 105 | 97 | 16 |
| Cu | 63 | 0.064 | ug/L | 0.001 | 1 | 383 | 748 | 1 |
| Cu | 65 | 0.057 | ug/L | 0.005 | 9 | 170 | 323 | 4 |
| Zn | 66 | 0.284 | ug/L | 0.039 | 13 | 1085 | 1578 | 4 |
| Zn | 67 | 0.294 | ug/L | 0.060 | 20 | 198 | 283 | 6 |
| Zn | 68 | -0.071 | ug/L | 0.096 | 135 | 5977 | 5512 | 2 |
| As-1 | 75 | 0.034 | ug/L | 0.012 | 35 | -74 | -15 | 123 |
| As | 75 | -0.257 | ug/L | 0.017 | 6 | 6996 | 6151 | 0 |
| Se | 82 | 0.075 | ug/L | 0.050 | 66 | 1 | 13 | 59 |
| Se | 78 | -0.938 | ug/L | 0.040 | 4 | 7341 | 6471 | 0 |
| [Mo | 98 | 0.006 | ug/L | 0.003 | 48 | 46 | 70 | 18 |
| Y | 89 | | ug/L | | | 225299 | 215935 | 0 |
| Kr | 83 | | ug/L | | | 114 | 114 | 2 |
| [> In | 115 | | ug/L | | | 375372 | 359989 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 183 | 107 | 110 | 12 |
| Cd | 111 | -0.001 | ug/L | 0.004 | 378 | 173 | 163 | 7 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 925 | 42 | 41 | 13 |
| Sb | 121 | -0.007 | ug/L | 0.000 | 2 | 173 | 99 | 1 |
| Sb | 123 | -0.005 | ug/L | 0.002 | 32 | 126 | 80 | 16 |
| Ba | 135 | 0.004 | ug/L | 0.003 | 86 | 45 | 52 | 14 |
| [Ba | 137 | 0.005 | ug/L | 0.001 | 14 | 70 | 87 | 2 |
| [> Tb | 159 | | ug/L | | | 385510 | 371446 | 0 |
| Tl | 205 | -0.003 | ug/L | 0.000 | 12 | 193 | 127 | 5 |
| Pb | 208 | -0.001 | ug/L | 0.001 | 163 | 674 | 628 | 6 |
| Bi | 209 | | ug/L | | | 257412 | 254458 | 0 |
| Th | 232 | 0.011 | ug/L | 0.001 | 5 | 1058 | 1491 | 1 |
| [U | 238 | 0.001 | ug/L | 0.001 | 65 | 98 | 144 | 22 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:41:46

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 509490 | 0 |
| [Be | 9 | 22.025 | ug/L | 0.270 | 1 | 1 | 10884 | 1 |
| C | 13 | | mg/L | | | 4352 | 6336 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2219539 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 236919 | 0 |
| V-1 | 51 | 24.054 | ug/L | 0.067 | 0 | 2135 | 270378 | 0 |
| V | 51 | 24.055 | ug/L | 0.069 | 0 | 512 | 275376 | 0 |
| Cr | 52 | 24.520 | ug/L | 0.153 | 0 | 6500 | 253578 | 0 |
| Cr | 53 | 24.492 | ug/L | 0.357 | 1 | 215 | 30252 | 1 |
| Mn | 55 | 24.447 | ug/L | 0.124 | 0 | 1623 | 438773 | 0 |
| [Co | 59 | 24.309 | ug/L | 0.158 | 0 | 141 | 341537 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 319266 | 0 |
| Ni | 60 | 26.694 | ug/L | 0.093 | 0 | 245 | 71572 | 0 |
| Ni | 62 | 25.957 | ug/L | 0.560 | 2 | 105 | 10592 | 2 |
| Cu | 63 | 27.027 | ug/L | 0.080 | 0 | 383 | 164354 | 0 |
| Cu | 65 | 27.004 | ug/L | 0.076 | 0 | 170 | 78506 | 0 |
| Zn | 66 | 77.644 | ug/L | 0.281 | 0 | 1085 | 154313 | 0 |
| Zn | 67 | 71.420 | ug/L | 0.557 | 0 | 198 | 23907 | 0 |
| Zn | 68 | 75.682 | ug/L | 0.364 | 0 | 5977 | 110872 | 0 |
| As-1 | 75 | 23.547 | ug/L | 0.112 | 0 | -74 | 37435 | 0 |
| As | 75 | 23.472 | ug/L | 0.228 | 0 | 6996 | 44598 | 0 |
| Se | 82 | 72.644 | ug/L | 0.511 | 0 | 1 | 11965 | 0 |
| Se | 78 | 69.304 | ug/L | 0.309 | 0 | 7341 | 37858 | 0 |
| [Mo | 98 | 0.024 | ug/L | 0.003 | 13 | 46 | 153 | 9 |
| Y | 89 | | ug/L | | | 225299 | 216131 | 0 |
| Kr | 83 | | ug/L | | | 114 | 130 | 4 |
| [> In | 115 | | ug/L | | | 375372 | 359792 | 0 |
| Ag | 107 | 23.523 | ug/L | 0.098 | 0 | 107 | 262036 | 0 |
| Cd | 111 | 23.527 | ug/L | 0.088 | 0 | 173 | 66600 | 0 |
| Cd | 114 | 23.346 | ug/L | 0.115 | 0 | 42 | 161734 | 0 |
| Sb | 121 | -0.000 | ug/L | 0.001 | 166 | 173 | 161 | 4 |
| Sb | 123 | 0.001 | ug/L | 0.001 | 111 | 126 | 125 | 4 |
| Ba | 135 | 23.935 | ug/L | 0.070 | 0 | 45 | 60952 | 0 |
| [Ba | 137 | 23.852 | ug/L | 0.097 | 0 | 70 | 104029 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 372022 | 0 |
| Tl | 205 | 24.340 | ug/L | 0.033 | 0 | 193 | 519242 | 0 |
| Pb | 208 | 24.527 | ug/L | 0.055 | 0 | 674 | 731980 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 256651 | 0 |
| Th | 232 | 23.237 | ug/L | 0.118 | 0 | 1058 | 1028782 | 0 |
| [U | 238 | 23.240 | ug/L | 0.128 | 0 | 98 | 1082395 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:48:35

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 508863 | 1 |
| [Be | 9 | 0.006 | ug/L | 0.001 | 23 | 1 | 4 | 15 |
| C | 13 | | mg/L | | | 4352 | 6446 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2253393 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 246394 | 0 |
| V-1 | 51 | 1.292 | ug/L | 0.004 | 0 | 2135 | 17113 | 0 |
| V | 51 | 1.317 | ug/L | 0.009 | 0 | 512 | 16165 | 0 |
| Cr | 52 | 1.607 | ug/L | 0.023 | 1 | 6500 | 23338 | 0 |
| Cr | 53 | 1.661 | ug/L | 0.036 | 2 | 215 | 2334 | 1 |
| Mn | 55 | 28.850 | ug/L | 0.135 | 0 | 1623 | 538192 | 0 |
| [Co | 59 | 0.318 | ug/L | 0.007 | 2 | 141 | 4785 | 2 |
| [> Ge | 72 | | ug/L | | | 339437 | 321299 | 0 |
| Ni | 60 | 1.954 | ug/L | 0.013 | 0 | 245 | 5487 | 0 |
| Ni | 62 | 1.943 | ug/L | 0.057 | 2 | 105 | 889 | 2 |
| Cu | 63 | 8.989 | ug/L | 0.055 | 0 | 383 | 55253 | 0 |
| Cu | 65 | 8.914 | ug/L | 0.037 | 0 | 170 | 26187 | 0 |
| Zn | 66 | 59.506 | ug/L | 0.113 | 0 | 1085 | 119258 | 0 |
| Zn | 67 | 53.575 | ug/L | 0.354 | 0 | 198 | 18095 | 0 |
| Zn | 68 | 57.869 | ug/L | 0.157 | 0 | 5977 | 86649 | 0 |
| As-1 | 75 | 0.644 | ug/L | 0.007 | 1 | -74 | 960 | 1 |
| As | 75 | 0.247 | ug/L | 0.024 | 9 | 6996 | 7025 | 0 |
| Se | 82 | 0.111 | ug/L | 0.053 | 47 | 1 | 19 | 43 |
| Se | 78 | -1.220 | ug/L | 0.105 | 8 | 7341 | 6400 | 0 |
| [Mo | 98 | 0.792 | ug/L | 0.010 | 1 | 46 | 3668 | 1 |
| Y | 89 | | ug/L | | | 225299 | 219680 | 0 |
| Kr | 83 | | ug/L | | | 114 | 121 | 9 |
| [> In | 115 | | ug/L | | | 375372 | 359480 | 0 |
| Ag | 107 | 0.011 | ug/L | 0.002 | 20 | 107 | 225 | 10 |
| Cd | 111 | 0.081 | ug/L | 0.005 | 6 | 173 | 396 | 3 |
| Cd | 114 | 0.068 | ug/L | 0.007 | 9 | 42 | 507 | 9 |
| Sb | 121 | 1.154 | ug/L | 0.012 | 1 | 173 | 11648 | 0 |
| Sb | 123 | 1.141 | ug/L | 0.010 | 0 | 126 | 8907 | 1 |
| Ba | 135 | 15.581 | ug/L | 0.175 | 1 | 45 | 39658 | 0 |
| [Ba | 137 | 15.541 | ug/L | 0.070 | 0 | 70 | 67747 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 370978 | 0 |
| Tl | 205 | 0.006 | ug/L | 0.002 | 26 | 193 | 308 | 10 |
| Pb | 208 | 4.227 | ug/L | 0.017 | 0 | 674 | 126352 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 253782 | 0 |
| Th | 232 | 0.050 | ug/L | 0.000 | 0 | 1058 | 3225 | 0 |
| [U | 238 | 0.015 | ug/L | 0.001 | 7 | 98 | 812 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 16:55:24

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 508357 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.006 | 114 | 1 | 4 | 69 |
| C | 13 | | mg/L | | | 4352 | 6557 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2240429 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 243946 | 0 |
| V-1 | 51 | 1.373 | ug/L | 0.003 | 0 | 2135 | 17876 | 0 |
| V | 51 | 1.398 | ug/L | 0.012 | 0 | 512 | 16951 | 0 |
| Cr | 52 | 1.793 | ug/L | 0.009 | 0 | 6500 | 25034 | 0 |
| Cr | 53 | 1.837 | ug/L | 0.035 | 1 | 215 | 2533 | 1 |
| Mn | 55 | 22.826 | ug/L | 0.155 | 0 | 1623 | 421925 | 0 |
| [Co | 59 | 0.260 | ug/L | 0.008 | 3 | 141 | 3905 | 2 |
| [> Ge | 72 | | ug/L | | | 339437 | 317794 | 0 |
| Ni | 60 | 1.703 | ug/L | 0.026 | 1 | 245 | 4759 | 1 |
| Ni | 62 | 1.775 | ug/L | 0.053 | 3 | 105 | 812 | 2 |
| Cu | 63 | 7.410 | ug/L | 0.029 | 0 | 383 | 45113 | 0 |
| Cu | 65 | 7.360 | ug/L | 0.029 | 0 | 170 | 21414 | 0 |
| Zn | 66 | 53.916 | ug/L | 0.321 | 0 | 1085 | 106970 | 0 |
| Zn | 67 | 48.429 | ug/L | 0.190 | 0 | 198 | 16196 | 0 |
| Zn | 68 | 52.767 | ug/L | 0.384 | 0 | 5977 | 78641 | 0 |
| As-1 | 75 | 0.554 | ug/L | 0.004 | 0 | -74 | 807 | 0 |
| As | 75 | 0.247 | ug/L | 0.019 | 7 | 6996 | 6948 | 0 |
| Se | 82 | 0.064 | ug/L | 0.027 | 42 | 1 | 11 | 37 |
| Se | 78 | -0.923 | ug/L | 0.044 | 4 | 7341 | 6462 | 0 |
| [Mo | 98 | 0.545 | ug/L | 0.010 | 1 | 46 | 2513 | 1 |
| Y | 89 | | ug/L | | | 225299 | 216860 | 0 |
| Kr | 83 | | ug/L | | | 114 | 123 | 3 |
| [> In | 115 | | ug/L | | | 375372 | 355983 | 0 |
| Ag | 107 | 0.004 | ug/L | 0.001 | 19 | 107 | 149 | 6 |
| Cd | 111 | 0.061 | ug/L | 0.008 | 12 | 173 | 335 | 5 |
| Cd | 114 | 0.052 | ug/L | 0.002 | 4 | 42 | 394 | 4 |
| Sb | 121 | 0.838 | ug/L | 0.005 | 0 | 173 | 8424 | 0 |
| Sb | 123 | 0.836 | ug/L | 0.007 | 0 | 126 | 6495 | 0 |
| Ba | 135 | 12.516 | ug/L | 0.171 | 1 | 45 | 31554 | 0 |
| [Ba | 137 | 12.613 | ug/L | 0.078 | 0 | 70 | 54458 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 368960 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 316 | 193 | 180 | 7 |
| Pb | 208 | 4.494 | ug/L | 0.012 | 0 | 674 | 133545 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 249844 | 0 |
| Th | 232 | 0.028 | ug/L | 0.001 | 3 | 1058 | 2251 | 1 |
| [U | 238 | 0.010 | ug/L | 0.000 | 4 | 98 | 564 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 17:02:19

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 515773 | 0 |
| [Be | 9 | 0.020 | ug/L | 0.010 | 50 | 1 | 11 | 43 |
| C | 13 | | mg/L | | | 4352 | 6790 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2245979 | 1 |
| [> Sc | 45 | | ug/L | | | 247193 | 249844 | 0 |
| V-1 | 51 | 2.510 | ug/L | 0.020 | 0 | 2135 | 31683 | 0 |
| V | 51 | 2.565 | ug/L | 0.008 | 0 | 512 | 31427 | 0 |
| Cr | 52 | 3.164 | ug/L | 0.018 | 0 | 6500 | 40232 | 0 |
| Cr | 53 | 3.282 | ug/L | 0.024 | 0 | 215 | 4464 | 0 |
| Mn | 55 | 41.877 | ug/L | 0.245 | 0 | 1623 | 791423 | 0 |
| [Co | 59 | 0.574 | ug/L | 0.009 | 1 | 141 | 8640 | 1 |
| [> Ge | 72 | | ug/L | | | 339437 | 319335 | 0 |
| Ni | 60 | 2.944 | ug/L | 0.032 | 1 | 245 | 8100 | 1 |
| Ni | 62 | 3.173 | ug/L | 0.100 | 3 | 105 | 1381 | 3 |
| Cu | 63 | 13.663 | ug/L | 0.058 | 0 | 383 | 83279 | 0 |
| Cu | 65 | 13.602 | ug/L | 0.073 | 0 | 170 | 39631 | 0 |
| Zn | 66 | 76.180 | ug/L | 0.190 | 0 | 1085 | 151454 | 0 |
| Zn | 67 | 68.220 | ug/L | 0.146 | 0 | 198 | 22849 | 0 |
| Zn | 68 | 74.746 | ug/L | 0.412 | 0 | 5977 | 109594 | 0 |
| As-1 | 75 | 0.833 | ug/L | 0.029 | 3 | -74 | 1256 | 3 |
| As | 75 | 0.498 | ug/L | 0.010 | 2 | 6996 | 7389 | 0 |
| Se | 82 | 0.131 | ug/L | 0.014 | 10 | 1 | 23 | 9 |
| Se | 78 | -0.986 | ug/L | 0.047 | 4 | 7341 | 6465 | 0 |
| [Mo | 98 | 1.026 | ug/L | 0.009 | 0 | 46 | 4713 | 0 |
| Y | 89 | | ug/L | | | 225299 | 223691 | 0 |
| Kr | 83 | | ug/L | | | 114 | 116 | 6 |
| [> In | 115 | | ug/L | | | 375372 | 359967 | 0 |
| Ag | 107 | 0.012 | ug/L | 0.001 | 5 | 107 | 235 | 3 |
| Cd | 111 | 0.108 | ug/L | 0.003 | 2 | 173 | 470 | 1 |
| Cd | 114 | 0.089 | ug/L | 0.003 | 3 | 42 | 659 | 3 |
| Sb | 121 | 1.581 | ug/L | 0.018 | 1 | 173 | 15921 | 0 |
| Sb | 123 | 1.564 | ug/L | 0.018 | 1 | 126 | 12181 | 0 |
| Ba | 135 | 21.467 | ug/L | 0.131 | 0 | 45 | 54695 | 0 |
| [Ba | 137 | 21.596 | ug/L | 0.141 | 0 | 70 | 94239 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 373714 | 0 |
| Tl | 205 | 0.004 | ug/L | 0.000 | 8 | 193 | 277 | 2 |
| Pb | 208 | 10.299 | ug/L | 0.040 | 0 | 674 | 309155 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 254046 | 0 |
| Th | 232 | 0.050 | ug/L | 0.001 | 2 | 1058 | 3249 | 1 |
| [U | 238 | 0.018 | ug/L | 0.001 | 3 | 98 | 945 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 17:09:09

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 530295 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.004 | 120 | 1 | 3 | 57 |
| C | 13 | | mg/L | | | 4352 | 8151 | 5 |
| Cl | 37 | | mg/L | | | 2511613 | 1968820 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 243906 | 0 |
| V-1 | 51 | 0.344 | ug/L | 0.018 | 5 | 2135 | 6060 | 3 |
| V | 51 | 0.368 | ug/L | 0.000 | 0 | 512 | 4835 | 1 |
| Cr | 52 | 0.596 | ug/L | 0.014 | 2 | 6500 | 12608 | 1 |
| Cr | 53 | 0.649 | ug/L | 0.040 | 6 | 215 | 1033 | 5 |
| Mn | 55 | 13.311 | ug/L | 0.058 | 0 | 1623 | 246675 | 0 |
| [Co | 59 | 0.120 | ug/L | 0.001 | 0 | 141 | 1869 | 1 |
| [> Ge | 72 | | ug/L | | | 339437 | 310861 | 0 |
| Ni | 60 | 1.287 | ug/L | 0.026 | 2 | 245 | 3572 | 2 |
| Ni | 62 | 1.123 | ug/L | 0.044 | 3 | 105 | 538 | 3 |
| Cu | 63 | 5.468 | ug/L | 0.039 | 0 | 383 | 32654 | 0 |
| Cu | 65 | 5.456 | ug/L | 0.056 | 1 | 170 | 15567 | 1 |
| Zn | 66 | 38.821 | ug/L | 0.398 | 1 | 1085 | 75620 | 1 |
| Zn | 67 | 34.788 | ug/L | 0.222 | 0 | 198 | 11431 | 0 |
| Zn | 68 | 37.775 | ug/L | 0.309 | 0 | 5977 | 56625 | 0 |
| As-1 | 75 | 0.353 | ug/L | 0.011 | 3 | -74 | 478 | 3 |
| As | 75 | 0.067 | ug/L | 0.032 | 47 | 6996 | 6513 | 1 |
| Se | 82 | 0.084 | ug/L | 0.055 | 65 | 1 | 14 | 59 |
| Se | 78 | -0.881 | ug/L | 0.078 | 8 | 7341 | 6340 | 0 |
| [Mo | 98 | 0.665 | ug/L | 0.016 | 2 | 46 | 2986 | 2 |
| Y | 89 | | ug/L | | | 225299 | 216127 | 0 |
| Kr | 83 | | ug/L | | | 114 | 113 | 7 |
| [> In | 115 | | ug/L | | | 375372 | 357876 | 0 |
| Ag | 107 | -0.000 | ug/L | 0.001 | 336 | 107 | 99 | 12 |
| Cd | 111 | 0.047 | ug/L | 0.011 | 22 | 173 | 297 | 9 |
| Cd | 114 | 0.046 | ug/L | 0.001 | 2 | 42 | 355 | 2 |
| Sb | 121 | 0.697 | ug/L | 0.016 | 2 | 173 | 7066 | 2 |
| Sb | 123 | 0.709 | ug/L | 0.006 | 0 | 126 | 5554 | 1 |
| Ba | 135 | 10.671 | ug/L | 0.099 | 0 | 45 | 27052 | 0 |
| [Ba | 137 | 10.649 | ug/L | 0.123 | 1 | 70 | 46236 | 1 |
| [> Tb | 159 | | ug/L | | | 385510 | 377810 | 0 |
| Tl | 205 | -0.005 | ug/L | 0.001 | 17 | 193 | 82 | 23 |
| Pb | 208 | 0.425 | ug/L | 0.005 | 1 | 674 | 13530 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 247531 | 0 |
| Th | 232 | 0.033 | ug/L | 0.001 | 3 | 1058 | 2510 | 2 |
| [U | 238 | 0.002 | ug/L | 0.000 | 15 | 98 | 193 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 17:16:00

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 522938 | 1 |
| [Be | 9 | -0.001 | ug/L | 0.002 | 250 | 1 | 1 | 100 |
| C | 13 | | mg/L | | | 4352 | 7857 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2164144 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 244247 | 0 |
| V-1 | 51 | 0.300 | ug/L | 0.023 | 7 | 2135 | 5560 | 4 |
| V | 51 | 0.322 | ug/L | 0.016 | 4 | 512 | 4297 | 4 |
| Cr | 52 | 0.605 | ug/L | 0.016 | 2 | 6500 | 12711 | 1 |
| Cr | 53 | 0.648 | ug/L | 0.020 | 3 | 215 | 1032 | 1 |
| Mn | 55 | 4.510 | ug/L | 0.048 | 1 | 1623 | 84743 | 0 |
| [Co | 59 | 0.035 | ug/L | 0.001 | 3 | 141 | 649 | 2 |
| [> Ge | 72 | | ug/L | | | 339437 | 316054 | 0 |
| Ni | 60 | 0.973 | ug/L | 0.014 | 1 | 245 | 2801 | 1 |
| Ni | 62 | 0.811 | ug/L | 0.049 | 5 | 105 | 422 | 4 |
| Cu | 63 | 3.545 | ug/L | 0.077 | 2 | 383 | 21651 | 2 |
| Cu | 65 | 3.515 | ug/L | 0.026 | 0 | 170 | 10254 | 0 |
| Zn | 66 | 34.817 | ug/L | 0.226 | 0 | 1085 | 69057 | 0 |
| Zn | 67 | 31.212 | ug/L | 0.310 | 0 | 198 | 10446 | 0 |
| Zn | 68 | 34.023 | ug/L | 0.107 | 0 | 5977 | 52405 | 0 |
| As-1 | 75 | 0.312 | ug/L | 0.011 | 3 | -74 | 421 | 3 |
| As | 75 | 0.033 | ug/L | 0.013 | 40 | 6996 | 6567 | 0 |
| Se | 82 | 0.115 | ug/L | 0.049 | 42 | 1 | 20 | 39 |
| Se | 78 | -0.830 | ug/L | 0.073 | 8 | 7341 | 6468 | 0 |
| [Mo | 98 | 0.383 | ug/L | 0.012 | 3 | 46 | 1769 | 2 |
| Y | 89 | | ug/L | | | 225299 | 217346 | 0 |
| Kr | 83 | | ug/L | | | 114 | 115 | 1 |
| [> In | 115 | | ug/L | | | 375372 | 359104 | 0 |
| Ag | 107 | -0.003 | ug/L | 0.001 | 47 | 107 | 73 | 18 |
| Cd | 111 | 0.026 | ug/L | 0.001 | 4 | 173 | 239 | 2 |
| Cd | 114 | 0.027 | ug/L | 0.003 | 12 | 42 | 225 | 9 |
| Sb | 121 | 0.444 | ug/L | 0.005 | 1 | 173 | 4579 | 1 |
| Sb | 123 | 0.445 | ug/L | 0.008 | 1 | 126 | 3545 | 1 |
| Ba | 135 | 7.603 | ug/L | 0.167 | 2 | 45 | 19351 | 1 |
| [Ba | 137 | 7.608 | ug/L | 0.034 | 0 | 70 | 33164 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 377056 | 0 |
| Tl | 205 | -0.005 | ug/L | 0.000 | 3 | 193 | 84 | 4 |
| Pb | 208 | 0.195 | ug/L | 0.003 | 1 | 674 | 6561 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 250433 | 0 |
| Th | 232 | 0.000 | ug/L | 0.003 | 6514 | 1058 | 1037 | 11 |
| [U | 238 | 0.001 | ug/L | 0.000 | 1 | 98 | 129 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ59 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 17:22:51

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 523023 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.005 | 163 | 1 | 3 | 78 |
| C | 13 | | mg/L | | | 4352 | 7870 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2090989 | 4 |
| [> Sc | 45 | | ug/L | | | 247193 | 244431 | 0 |
| V-1 | 51 | 0.361 | ug/L | 0.005 | 1 | 2135 | 6270 | 0 |
| V | 51 | 0.392 | ug/L | 0.010 | 2 | 512 | 5123 | 2 |
| Cr | 52 | 0.624 | ug/L | 0.010 | 1 | 6500 | 12918 | 1 |
| Cr | 53 | 0.695 | ug/L | 0.038 | 5 | 215 | 1093 | 4 |
| Mn | 55 | 13.733 | ug/L | 0.052 | 0 | 1623 | 254991 | 0 |
| Co | 59 | 0.111 | ug/L | 0.002 | 1 | 141 | 1751 | 1 |
| [> Ge | 72 | | ug/L | | | 339437 | 313716 | 0 |
| Ni | 60 | 1.915 | ug/L | 0.089 | 4 | 245 | 5257 | 5 |
| Ni | 62 | 1.847 | ug/L | 0.143 | 7 | 105 | 830 | 7 |
| Cu | 63 | 6.014 | ug/L | 0.060 | 1 | 383 | 36213 | 1 |
| Cu | 65 | 5.898 | ug/L | 0.067 | 1 | 170 | 16971 | 1 |
| Zn | 66 | 43.679 | ug/L | 0.629 | 1 | 1085 | 85745 | 2 |
| Zn | 67 | 39.103 | ug/L | 0.236 | 0 | 198 | 12945 | 1 |
| Zn | 68 | 42.521 | ug/L | 0.485 | 1 | 5977 | 63634 | 1 |
| As-1 | 75 | 0.387 | ug/L | 0.001 | 0 | -74 | 536 | 1 |
| As | 75 | 0.084 | ug/L | 0.025 | 29 | 6996 | 6600 | 0 |
| Se | 82 | 0.091 | ug/L | 0.014 | 15 | 1 | 16 | 13 |
| Se | 78 | -0.906 | ug/L | 0.074 | 8 | 7341 | 6387 | 0 |
| [Mo | 98 | 0.684 | ug/L | 0.015 | 2 | 46 | 3103 | 2 |
| Y | 89 | | ug/L | | | 225299 | 217496 | 0 |
| Kr | 83 | | ug/L | | | 114 | 120 | 3 |
| [> In | 115 | | ug/L | | | 375372 | 358658 | 0 |
| Ag | 107 | -0.001 | ug/L | 0.001 | 134 | 107 | 93 | 13 |
| Cd | 111 | 0.046 | ug/L | 0.002 | 3 | 173 | 295 | 1 |
| Cd | 114 | 0.041 | ug/L | 0.006 | 14 | 42 | 324 | 12 |
| Sb | 121 | 0.734 | ug/L | 0.011 | 1 | 173 | 7450 | 1 |
| Sb | 123 | 0.735 | ug/L | 0.005 | 0 | 126 | 5765 | 0 |
| Ba | 135 | 11.263 | ug/L | 0.047 | 0 | 45 | 28614 | 0 |
| [Ba | 137 | 11.246 | ug/L | 0.088 | 0 | 70 | 48931 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 376836 | 0 |
| Tl | 205 | -0.005 | ug/L | 0.000 | 9 | 193 | 91 | 10 |
| Pb | 208 | 0.455 | ug/L | 0.007 | 1 | 674 | 14395 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 247367 | 0 |
| Th | 232 | -0.000 | ug/L | 0.001 | 170 | 1058 | 1017 | 3 |
| [U | 238 | 0.002 | ug/L | 0.000 | 19 | 98 | 191 | 9 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ06 U REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Monday, April 19, 2010 17:29:44

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 502613 | 543306 | 2 |
| [Be | 9 | 0.276 | ug/L | 0.009 | 3 | 1 | 147 | 2 |
| C | 13 | | mg/L | | | 4352 | 5166 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2230316 | 0 |
| [> Sc | 45 | | ug/L | | | 247193 | 276090 | 1 |
| V-1 | 51 | 0.004 | ug/L | 0.006 | 145 | 2135 | 2441 | 3 |
| V | 51 | 0.043 | ug/L | 0.000 | 0 | 512 | 1143 | 1 |
| Cr | 52 | -0.016 | ug/L | 0.014 | 86 | 6500 | 7069 | 1 |
| Cr | 53 | 0.100 | ug/L | 0.016 | 16 | 215 | 383 | 5 |
| Mn | 55 | 563.366 | ug/L | 3.281 | 0 | 1623 | 11742313 | 0 |
| Co | 59 | 41.636 | ug/L | 0.561 | 1 | 141 | 681494 | 0 |
| [> Ge | 72 | | ug/L | | | 339437 | 316704 | 0 |
| Ni | 60 | 83.382 | ug/L | 0.521 | 0 | 245 | 221281 | 0 |
| Ni | 62 | 81.796 | ug/L | 0.524 | 0 | 105 | 32901 | 0 |
| Cu | 63 | 4.603 | ug/L | 0.053 | 1 | 383 | 28065 | 1 |
| Cu | 65 | 4.990 | ug/L | 0.038 | 0 | 170 | 14518 | 0 |
| Zn | 66 | 20.434 | ug/L | 0.139 | 0 | 1085 | 41031 | 0 |
| Zn | 67 | 18.010 | ug/L | 0.279 | 1 | 198 | 6119 | 1 |
| Zn | 68 | 19.641 | ug/L | 0.283 | 1 | 5977 | 32673 | 1 |
| As-1 | 75 | 0.106 | ug/L | 0.014 | 13 | -74 | 97 | 22 |
| As | 75 | -0.268 | ug/L | 0.008 | 2 | 6996 | 6097 | 0 |
| Se | 82 | 0.021 | ug/L | 0.027 | 129 | 1 | 4 | 91 |
| Se | 78 | -1.238 | ug/L | 0.029 | 2 | 7341 | 6301 | 0 |
| Mo | 98 | 0.011 | ug/L | 0.001 | 10 | 46 | 90 | 5 |
| Y | 89 | | ug/L | | | 225299 | 266690 | 0 |
| Kr | 83 | | ug/L | | | 114 | 122 | 1 |
| [> In | 115 | | ug/L | | | 375372 | 358795 | 0 |
| Ag | 107 | -0.005 | ug/L | 0.001 | 11 | 107 | 50 | 11 |
| Cd | 111 | 0.112 | ug/L | 0.010 | 9 | 173 | 480 | 5 |
| Cd | 114 | 0.099 | ug/L | 0.002 | 1 | 42 | 721 | 1 |
| Sb | 121 | -0.003 | ug/L | 0.001 | 31 | 173 | 134 | 7 |
| Sb | 123 | 0.000 | ug/L | 0.003 | 869 | 126 | 123 | 19 |
| Ba | 135 | 5.583 | ug/L | 0.015 | 0 | 45 | 14211 | 0 |
| Ba | 137 | 5.574 | ug/L | 0.039 | 0 | 70 | 24296 | 0 |
| [> Tb | 159 | | ug/L | | | 385510 | 373347 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.001 | 268 | 193 | 195 | 10 |
| Pb | 208 | 0.093 | ug/L | 0.002 | 2 | 674 | 3428 | 1 |
| Bi | 209 | | ug/L | | | 257412 | 241525 | 0 |
| Th | 232 | -0.017 | ug/L | 0.001 | 3 | 1058 | 278 | 9 |
| U | 238 | 0.114 | ug/L | 0.002 | 1 | 98 | 5414 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QQ06 V REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, April 19, 2010 17:36:33

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 546878 | 1 |
| [Be | 9 | 0.007 | ug/L | 0.003 | 40 | 1 | 5 | 26 |
| C | 13 | | mg/L | | | 4352 | 6472 | 1 |
| Cl | 37 | | mg/L | | | 2511613 | 2259808 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 329859 | 0 |
| V-1 | 51 | 0.342 | ug/L | 0.012 | 3 | 2135 | 8155 | 2 |
| V | 51 | 0.407 | ug/L | 0.008 | 1 | 512 | 7167 | 2 |
| Cr | 52 | -0.105 | ug/L | 0.000 | 0 | 6500 | 7201 | 0 |
| Cr | 53 | 0.123 | ug/L | 0.023 | 18 | 215 | 497 | 8 |
| Mn | 55 | 51.634 | ug/L | 0.219 | 0 | 1623 | 1287804 | 0 |
| Co | 59 | 0.325 | ug/L | 0.002 | 0 | 141 | 6544 | 1 |
| > Ge | 72 | | ug/L | | | 339437 | 313601 | 0 |
| Ni | 60 | 3.242 | ug/L | 0.012 | 0 | 245 | 8737 | 0 |
| Ni | 62 | 2.596 | ug/L | 0.114 | 4 | 105 | 1128 | 4 |
| Cu | 63 | 1.481 | ug/L | 0.011 | 0 | 383 | 9179 | 0 |
| Cu | 65 | 1.438 | ug/L | 0.018 | 1 | 170 | 4254 | 0 |
| Zn | 66 | 6.611 | ug/L | 0.133 | 2 | 1085 | 13823 | 2 |
| Zn | 67 | 5.685 | ug/L | 0.069 | 1 | 198 | 2038 | 1 |
| Zn | 68 | 6.779 | ug/L | 0.079 | 1 | 5977 | 14783 | 0 |
| As-1 | 75 | 0.198 | ug/L | 0.011 | 5 | -74 | 240 | 6 |
| As | 75 | -0.218 | ug/L | 0.039 | 18 | 6996 | 6117 | 0 |
| Se | 82 | 0.184 | ug/L | 0.066 | 35 | 1 | 31 | 33 |
| Se | 78 | -1.252 | ug/L | 0.125 | 9 | 7341 | 6233 | 0 |
| Mo | 98 | 0.572 | ug/L | 0.023 | 3 | 46 | 2599 | 3 |
| Y | 89 | | ug/L | | | 225299 | 221306 | 0 |
| Kr | 83 | | ug/L | | | 114 | 117 | 9 |
| > In | 115 | | ug/L | | | 375372 | 357641 | 0 |
| Ag | 107 | -0.002 | ug/L | 0.000 | 7 | 107 | 79 | 2 |
| Cd | 111 | 0.014 | ug/L | 0.005 | 38 | 173 | 203 | 7 |
| Cd | 114 | 0.016 | ug/L | 0.000 | 3 | 42 | 150 | 1 |
| Sb | 121 | 0.026 | ug/L | 0.001 | 3 | 173 | 423 | 2 |
| Sb | 123 | 0.027 | ug/L | 0.003 | 11 | 126 | 325 | 7 |
| Ba | 135 | 1.957 | ug/L | 0.008 | 0 | 45 | 4992 | 0 |
| Ba | 137 | 1.950 | ug/L | 0.035 | 1 | 70 | 8515 | 2 |
| > Tb | 159 | | ug/L | | | 385510 | 372705 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.002 | 15 | 193 | 442 | 9 |
| Pb | 208 | 0.217 | ug/L | 0.002 | 0 | 674 | 7145 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 242198 | 0 |
| Th | 232 | -0.017 | ug/L | 0.000 | 2 | 1058 | 267 | 6 |
| U | 238 | 0.021 | ug/L | 0.001 | 3 | 98 | 1064 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 17:44:00

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 517633 | 0 |
| [Be | 9 | 48.166 | ug/L | 0.441 | 0 | 1 | 24182 | 0 |
| C | 13 | | mg/L | | | 4352 | 4082 | 2 |
| Cl | 37 | | mg/L | | | 2511613 | 2310644 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 236212 | 0 |
| V-1 | 51 | 50.239 | ug/L | 0.167 | 0 | 2135 | 560816 | 0 |
| V | 51 | 50.143 | ug/L | 0.184 | 0 | 512 | 571775 | 0 |
| Cr | 52 | 49.959 | ug/L | 0.019 | 0 | 6500 | 508690 | 0 |
| Cr | 53 | 49.692 | ug/L | 0.064 | 0 | 215 | 60986 | 0 |
| Mn | 55 | 50.449 | ug/L | 0.184 | 0 | 1623 | 901084 | 0 |
| [Co | 59 | 48.947 | ug/L | 0.103 | 0 | 141 | 685514 | 0 |
| > Ge | 72 | | ug/L | | | 339437 | 316176 | 0 |
| Ni | 60 | 53.875 | ug/L | 0.271 | 0 | 245 | 142818 | 0 |
| Ni | 62 | 52.966 | ug/L | 0.431 | 0 | 105 | 21303 | 0 |
| Cu | 63 | 53.009 | ug/L | 0.335 | 0 | 383 | 318886 | 0 |
| Cu | 65 | 52.620 | ug/L | 0.229 | 0 | 170 | 151347 | 0 |
| Zn | 66 | 54.524 | ug/L | 0.073 | 0 | 1085 | 107616 | 0 |
| Zn | 67 | 53.564 | ug/L | 0.235 | 0 | 198 | 17803 | 0 |
| Zn | 68 | 53.262 | ug/L | 0.172 | 0 | 5977 | 78922 | 0 |
| As-1 | 75 | 51.803 | ug/L | 0.118 | 0 | -74 | 81644 | 0 |
| As | 75 | 51.019 | ug/L | 0.115 | 0 | 6996 | 88353 | 0 |
| Se | 82 | 53.586 | ug/L | 0.300 | 0 | 1 | 8741 | 0 |
| Se | 78 | 50.628 | ug/L | 0.247 | 0 | 7341 | 29231 | 0 |
| [Mo | 98 | 53.194 | ug/L | 0.166 | 0 | 46 | 239771 | 0 |
| Y | 89 | | ug/L | | | 225299 | 210651 | 0 |
| Kr | 83 | | ug/L | | | 114 | 136 | 4 |
| > In | 115 | | ug/L | | | 375372 | 351575 | 0 |
| Ag | 107 | 50.275 | ug/L | 0.146 | 0 | 107 | 547132 | 0 |
| Cd | 111 | 51.146 | ug/L | 0.172 | 0 | 173 | 141284 | 0 |
| Cd | 114 | 50.883 | ug/L | 0.314 | 0 | 42 | 344401 | 0 |
| Sb | 121 | 50.376 | ug/L | 0.371 | 0 | 173 | 490482 | 0 |
| Sb | 123 | 50.359 | ug/L | 0.364 | 0 | 126 | 379436 | 0 |
| Ba | 135 | 48.788 | ug/L | 0.182 | 0 | 45 | 121360 | 0 |
| [Ba | 137 | 49.303 | ug/L | 0.393 | 0 | 70 | 210048 | 0 |
| > Tb | 159 | | ug/L | | | 385510 | 359103 | 0 |
| Tl | 205 | 49.778 | ug/L | 0.170 | 0 | 193 | 1024803 | 0 |
| Pb | 208 | 50.065 | ug/L | 0.284 | 0 | 674 | 1441604 | 0 |
| Bi | 209 | | ug/L | | | 257412 | 240889 | 0 |
| Th | 232 | 51.160 | ug/L | 0.587 | 1 | 1058 | 2185130 | 0 |
| [U | 238 | 50.733 | ug/L | 0.661 | 1 | 98 | 2280629 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, April 19, 2010 17:51:28

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\041910a.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 502613 | 516234 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.004 | 274 | 1 | 2 | 86 |
| C | 13 | | mg/L | | | 4352 | 4229 | 3 |
| Cl | 37 | | mg/L | | | 2511613 | 2335787 | 0 |
| > Sc | 45 | | ug/L | | | 247193 | 235680 | 0 |
| V-1 | 51 | -0.014 | ug/L | 0.007 | 52 | 2135 | 1881 | 3 |
| V | 51 | -0.009 | ug/L | 0.003 | 32 | 512 | 390 | 7 |
| Cr | 52 | -0.041 | ug/L | 0.013 | 32 | 6500 | 5788 | 1 |
| Cr | 53 | -0.024 | ug/L | 0.020 | 86 | 215 | 177 | 14 |
| Mn | 55 | -0.022 | ug/L | 0.001 | 3 | 1623 | 1151 | 1 |
| [Co | 59 | 0.002 | ug/L | 0.001 | 46 | 141 | 165 | 8 |
| > Ge | 72 | | ug/L | | | 339437 | 315757 | 0 |
| Ni | 60 | -0.029 | ug/L | 0.004 | 14 | 245 | 152 | 7 |
| Ni | 62 | -0.052 | ug/L | 0.036 | 69 | 105 | 77 | 18 |
| Cu | 63 | -0.003 | ug/L | 0.003 | 110 | 383 | 340 | 5 |
| Cu | 65 | -0.002 | ug/L | 0.001 | 54 | 170 | 151 | 2 |
| Zn | 66 | -0.028 | ug/L | 0.023 | 83 | 1085 | 955 | 4 |
| Zn | 67 | 0.012 | ug/L | 0.074 | 624 | 198 | 188 | 12 |
| Zn | 68 | -0.338 | ug/L | 0.031 | 9 | 5977 | 5095 | 0 |
| As-1 | 75 | 0.042 | ug/L | 0.019 | 46 | -74 | -4 | 721 |
| As | 75 | -0.175 | ug/L | 0.033 | 18 | 6996 | 6228 | 0 |
| Se | 82 | -0.042 | ug/L | 0.049 | 116 | 1 | -5 | 146 |
| Se | 78 | -0.721 | ug/L | 0.160 | 22 | 7341 | 6510 | 1 |
| [Mo | 98 | 0.014 | ug/L | 0.001 | 4 | 46 | 106 | 2 |
| Y | 89 | | ug/L | | | 225299 | 212466 | 0 |
| Kr | 83 | | ug/L | | | 114 | 123 | 0 |
| > In | 115 | | ug/L | | | 375372 | 354717 | 0 |
| Ag | 107 | 0.004 | ug/L | 0.003 | 84 | 107 | 146 | 25 |
| Cd | 111 | 0.003 | ug/L | 0.005 | 186 | 173 | 171 | 7 |
| Cd | 114 | 0.008 | ug/L | 0.002 | 26 | 42 | 95 | 15 |
| Sb | 121 | 0.018 | ug/L | 0.004 | 19 | 173 | 341 | 9 |
| Sb | 123 | 0.019 | ug/L | 0.001 | 7 | 126 | 266 | 3 |
| Ba | 135 | -0.000 | ug/L | 0.003 | 751 | 45 | 41 | 15 |
| [Ba | 137 | 0.003 | ug/L | 0.004 | 114 | 70 | 80 | 20 |
| > Tb | 159 | | ug/L | | | 385510 | 363524 | 0 |
| Tl | 205 | 0.008 | ug/L | 0.002 | 21 | 193 | 348 | 10 |
| Pb | 208 | 0.006 | ug/L | 0.001 | 19 | 674 | 805 | 4 |
| Bi | 209 | | ug/L | | | 257412 | 246483 | 0 |
| Th | 232 | 0.036 | ug/L | 0.006 | 17 | 1058 | 2571 | 10 |
| [U | 238 | 0.007 | ug/L | 0.003 | 40 | 98 | 402 | 31 |

and pky

Metals Analysis
Prep Logs

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.



Digestion Log

Analyst: MH

Date: 4/02/10

Matrix: Water

Block Temp: 930C

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>REN</u> | | Prep Code: | | Comments | |
|-----------------------|-------|------|----------------------------|----------------|----------------------------|----------------|--------------------|--|
| | | | Initial Wt (g) Vol (mL) | Final Vol (mL) | Initial Wt (g) Vol (mL) | Final Vol (mL) | | |
| QQ59 A | 4 | ✓ | 50.0 | 25.0 | | | | |
| " B | 4 | ✓ | | | | | | |
| " C | 10 | ✓ | | | | | | |
| " CDUP | 10 | ✓ | | | | | | |
| " CSPK | 10 | ✓ | | | | | | |
| " D | 4 | ✓ | | | | | | |
| " MBI | — | ✓ | | | | | | |
| " MBSPK | — | ✓ | | | | | | |
| " E | 1 | — | | | | | Filtered in Lab | |
| " F | 1 | — | | | | | | |
| " G | 1 | — | | | | | | |
| " GDUP | 1 | — | | | | | | |
| " GSPK | 1 | — | | | | | | |
| " H | 1 | — | | | | | | |
| " MBZ | — | — | | | | | | |
| " MBZSPK | — | — | 50.0 | 25.0 | | | | |
| MH 4/02/10 | | | | | | | | |

Chemical/Reagent ID:

HNO₃: MP1861

HCl: —

H₂O₂: —

MH 4/02/10

Tube Lot #: A909LS16Z

F5367

General Chemistry Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59


prepared
by

Analytical Resources, Inc.

QQ59 : 00415

REPLICATE RESULTS-CONVENTIONALS
QQ59-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 04/02/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: 03/29/10
Date Received: 03/30/10

| Analyte | Date | Units | Sample | Replicate(s) | RPD/RSD |
|--|----------|-------|--------|--------------|---------|
| ARI ID: QQ59C Client ID: CB1032910COMP | | | | | |
| Total Suspended Solids | 03/31/10 | mg/L | 15.4 | 15.3 | 0.7% |

LAB CONTROL RESULTS-CONVENTIONALS
QQ59-Floyd/Snider



Matrix: Water
Data Release Authorized:
Reported: 04/02/10

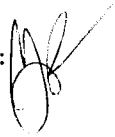
A handwritten signature in black ink, appearing to be 'MS', written over the 'Data Release Authorized:' text.

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | LCS | Spike Added | Recovery |
|------------------------|----------------|-------|------|-------------|----------|
| Total Suspended Solids | 03/31/10 14:32 | mg/L | 49.2 | 50.0 | 98.4% |

METHOD BLANK RESULTS-CONVENTIONALS
QQ59-Floyd/Snider



Matrix: Water
Data Release Authorized: 
Reported: 04/02/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | Blank |
|------------------------|----------------|-------|---------|
| Total Suspended Solids | 03/31/10 14:32 | mg/L | < 1.0 U |

General Chemistry Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments


ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2



Data Release Authorized: 
Reported: 04/02/10
Date Received: 03/30/10
Page 1 of 1

QC Report No: QQ59-Floyd/Snider
Project: Lora Lakes Apartments

| Client/ ARI ID | Date Sampled | Matrix | Analysis Date & Batch | RL | Result |
|-----------------------------------|-----------------|--------|----------------------------|-----|--------|
| CB31A032910COMP QQ59A 10-8212 | 03/29/10 | Water | 03/31/10 14:32 033110#1 | 3.0 | 44.5 |
| CB4857032910COMP QQ59B 10-8213 | 03/29/10 | Water | 03/31/10 14:32 033110#1 | 2.2 | 48.5 |
| CB1032910COMP QQ59C 10-8214 | 03/29/10 | Water | 03/31/10 14:32 033110#1 | 1.0 | 15.4 |
| CB100032910COMP QQ59D 10-8215 | 03/29/10 | Water | 03/31/10 14:32 033110#1 | 2.3 | 51.9 |

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.

3-31-10

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 3/31/2010
 ANALYST: KE 14:32
 Analytical Balance: 1123230597

Drying Ovens: 12
 Muffle Furnace: N/A

TSS (mg/l) calculated as:
 Final dry wt (mg) = (minimum Dry Wt - Tare Wt) * 1000
 TSS = [(Final Dry Wt) / ml Sample] * 1000
 if dry wt < 1mg, TSS = <1mg / mL sample * 1000
 with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
 LOI (mg) = Dry wt(mg) - ((min ash wt - tare wt) * 1000)
 TVSS (mg/L) = LOI / mL sample * 1000
 if LOI < 1mg, TVSS = <1mg / mL sample * 1000
 with "<" flag

LCS source: Cellulose, MP Biomedicals Lot# 6399J

| SAMPLE ID | DISH # | filtered (mL) | TARE WT (grams) | DRY WT 104C (grams) | | | | grams to | 1000 DryWT (mg) | TSS (mg/L) | ASH WT 550C (grams) | | | | LOI (mg) | TVSS (mg/l) | |
|-------------|--------|---------------|----------------------------------|---------------------|---------|---------|-------|----------|-----------------|------------|---------------------|-------|-------|-------|----------|-------------|----|
| | | | | 1 | 2 | 3 | 4 | | | | 1 | 2 | 3 | 4 | | | |
| | | | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | | | | CV-02 | CV-02 | CV-02 | CV-02 | | | |
| | | | 3/31/10 16:18 KE3/31/10 18:02 KE | | | | | | | | | | | | | | |
| | | | Cal OK! | 10.0000 | Cal OK! | 10.0000 | | | | | | | | | | | |
| BLANK | | 1000 | 0.1105 | 0.1105 | 0.1105 | STOP | | 0.0 | < 1 | | | | | | | | |
| LCS # | | 1000 | 0.1074 | 0.1568 | 0.1566 | STOP | | 49.2 | 49.2 | 98.4% | | | | | | | |
| QQ55 A6 | | 420 | 0.1071 | 0.1243 | 0.1241 | STOP | | 17.0 | 40.5 | | | | | | | | |
| QQ55 A6 dup | | 420 | 0.1073 | 0.1240 | 0.1239 | STOP | | 16.6 | 39.5 | | | | | | | | |
| | | | | | | | | | | RPD = | 2.5% | | | | | RPD = | NA |

| | | | | | | | | | | | | | | | | | |
|-------------|--|------|--------|--------|--------|------|--|------|------|-------|------|--|--|--|--|-------|----|
| QQ55 B8 | | 470 | 0.1121 | 0.1275 | 0.1273 | STOP | | 15.2 | 32.3 | | | | | | | | |
| QQ55 C8 | | 640 | 0.1101 | 0.1247 | 0.1247 | STOP | | 14.6 | 22.8 | | | | | | | | |
| QQ55 D8 | | 600 | 0.1085 | 0.1241 | 0.1242 | STOP | | 15.6 | 26.0 | | | | | | | | |
| QQ55 E8 | | 610 | 0.1123 | 0.1286 | 0.1286 | STOP | | 16.3 | 26.7 | | | | | | | | |
| QQ55 F8 | | 920 | 0.1099 | 0.1237 | 0.1237 | STOP | | 13.8 | 15.0 | | | | | | | | |
| QQ59 A3 | | 330 | 0.1114 | 0.1263 | 0.1261 | STOP | | 14.7 | 44.5 | | | | | | | | |
| QQ59 B3 | | 460 | 0.1070 | 0.1296 | 0.1293 | STOP | | 22.3 | 48.5 | | | | | | | | |
| QQ59 C3 | | 1000 | 0.1090 | 0.1246 | 0.1244 | STOP | | 15.4 | 15.4 | | | | | | | | |
| QQ59 C3 dup | | 1000 | 0.1091 | 0.1244 | 0.1245 | STOP | | 15.3 | 15.3 | | | | | | | | |
| | | | | | | | | | | RPD = | 0.7% | | | | | RPD = | NA |

| | | | | | | | | | | | | | | | | | |
|---------|--|-----|--------|--------|--------|------|--|------|------|-------|------|--|--|--|--|-------|----|
| QQ59 D3 | | 430 | 0.1062 | 0.1288 | 0.1285 | STOP | | 22.3 | 51.9 | | | | | | | | |
| | | | | | | | | | | RPD = | 0.7% | | | | | RPD = | NA |

0009 : 00422

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 3/31/10
 ANALYST: (Signature) 1432

Analytical Balance: 1123230590

Drying Ovens: 12

Muffle Furnace: N/A

| SAMPLE ID | DISH # | filtered (mL) | TARE WT (grams) | DRY WT 104C (grams) | | | | grams to | 1000 DryWT (mg) | TSS (mg/L) | ASH WT 550C (grams) | | | | LOI (mg) | TVSS (mg/l) |
|---|---------|---------------|-----------------|---------------------|--------|--------|---|----------|-----------------|------------|---------------------|---|---|---|----------|-------------|
| | | | | 1 | 2 | 3 | 4 | | | | 1 | 2 | 3 | 4 | | |
| LCS source: Cellulose, MP Biomedicals Lot# 6399J TSS (mg/l) calculated as: Final dry wt (mg) = (Minimum Dry Wt - Tare Wt) * 1000 TSS = [(Final Dry Wt) / ml Sample] * 1000 if dry wt < 1mg, TSS = < 1mg / mL sample * 1000 with "<" flag Loss on ignition (LOI) = TVSS (mg/L) calculated as: LOI (mg) = Dry wt(mg) - (min ash wt - tare wt) * 1000 TVSS (mg/L) = LOI / mL sample * 1000 if LOI < 1mg, TVSS = < 1mg / mL sample * 1000 with "<" flag | | | | | | | | | | | | | | | | |
| Cal Wt (g) | 10.0000 | | | | | | | | | | | | | | | |
| Cal Weight ID | | | | | | | | | | | | | | | | |
| Date & Time | | | | | | | | | | | | | | | | |
| record weights to 4 places | | | | | | | | | | | | | | | | |
| BLANK | P1348 | 1000 | 0.1105 | 0.1105 | 0.1105 | 0.1105 | | | | | | | | | | |
| LCS # | P1349 | 1000 | 0.1074 | 0.1568 | 0.1566 | | | | | | | | | | | |
| Q055 A6 | P1350 | 420 | 0.1071 | 0.1243 | 0.1241 | | | | | | | | | | | |
| of A6 | P1351 | 420 | 0.1073 | 0.1240 | 0.1239 | | | | | | | | | | | |
| B8 | P1352 | 470 | 0.1121 | 0.1275 | 0.1273 | | | | | | | | | | | |
| C8 | P1353 | 640 | 0.1101 | 0.1247 | 0.1247 | | | | | | | | | | | |
| D8 | P1355 | 600 | 0.1085 | 0.1241 | 0.1242 | | | | | | | | | | | |
| E8 | P1357 | 610 | 0.1123 | 0.1286 | 0.1286 | | | | | | | | | | | |
| F9 | P1358 | 920 | 0.1099 | 0.1237 | 0.1237 | | | | | | | | | | | |
| Q059 A3 | P1359 | 330 | 0.1114 | 0.1263 | 0.1261 | | | | | | | | | | | |
| B3 | P1360 | 460 | 0.1070 | 0.1296 | 0.1293 | | | | | | | | | | | |
| C9 | P1354 | 1000 | 0.1090 | 0.1246 | 0.1244 | | | | | | | | | | | |
| of C9 | P1356 | 1000 | 0.1091 | 0.1244 | 0.1245 | | | | | | | | | | | |
| D9 | P1361 | 730 | 0.1062 | 0.1288 | 0.1285 | | | | | | | | | | | |

% Recovery

00500000023

Subcontracted Results
Dioxin/Furans 1613(Sub) Analyzed by Frontier Analytical Laboratory

prepared
for

Floyd/Snider

Project: Lora Lakes Apartments

ARI JOB NO: QQ59

prepared
by

Analytical Resources, Inc.



April 15, 2010

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

Dear Ms. Dunninghoo,

Enclosed are the results for Frontier Analytical Laboratory project **6076**. This corresponds to your **Lora Lakes Apartments** project under ARI project number **QQ59**. Four aqueous samples were received on 4/1/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6076**.

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

If you have any questions regarding project **6076**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley B. Silverbush", written in a cursive style.

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillside Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

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QQ59 : 00425

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6076**

Received on: **04/01/2010**

Project Due: **04/23/2010** Storage: **R1**

| FAL Sample ID | Dup | Client Project ID | Client Sample ID | Requested Method | Matrix | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|------------------|------------------|---------|---------------|---------------|--------------------|
| 6076-001-SA | 0 | QQ59 | CB31A032910COMP | EPA 1613 D/F | Aqueous | 03/29/2010 | 06:12 pm | 03/29/2011 |
| 6076-002-SA | 0 | QQ59 | CB4857032910COMP | EPA 1613 D/F | Aqueous | 03/29/2010 | 07:00 pm | 03/29/2011 |
| 6076-003-SA | 0 | QQ59 | CB1032910COMP | EPA 1613 D/F | Aqueous | 03/29/2010 | 06:54 pm | 03/29/2011 |
| 6076-004-SA | 0 | QQ59 | CB100032910COMP | EPA 1613 D/F | Aqueous | 03/29/2010 | 07:12 pm | 03/29/2011 |

EPA Method 1613
PCDD/F



FAL ID: 6076-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: pg/L

Acquired: 04-14-2010
2005 WHO TEQ: 0.00

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 0.982 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 0.720 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.990 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 1.16 | | - | 0.381 | Total TCDD | ND | 0.982 | |
| 1,2,3,7,8,9-HxCDD | ND | 1.05 | | - | 0.351 | Total PeCDD | ND | 0.720 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 1.53 | | - | 0.495 | Total HxCDD | ND | 1.16 | |
| OCDD | ND | 2.95 | | - | 1.02 | Total HpCDD | ND | 1.58 | |
| 2,3,7,8-TCDF | ND | 0.445 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.658 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.712 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.612 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.634 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.639 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.696 | | - | 0.185 | Total TCDF | ND | 0.445 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.866 | | - | 0.251 | Total PeCDF | ND | 0.712 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.913 | | - | 0.280 | Total HxCDF | ND | 0.696 | |
| OCDF | ND | 1.64 | | - | 0.451 | Total HpCDF | ND | 0.913 | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 83.9 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 81.6 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 78.4 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 79.1 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 75.4 | 23.0 - 140 | |
| 13C-OCDD | 77.0 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 82.1 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 79.5 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 81.3 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 77.3 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 76.5 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 79.5 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 80.0 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 75.1 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 79.9 | 26.0 - 138 | |
| 13C-OCDF | 79.6 | 17.0 - 157 | |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 85.4 35.0 - 197

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

Analyst: [Signature]

Date: 4/15/10

Reviewed By: DN

Date: 4/15/10

EPA Method 1613
PCDD/F



FAL ID: 6076-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: ng/ml

Acquired: 04-14-2010
2005 WHO TEQ: NA


| Compound | Conc | QC Limits | Qual |
|---------------------|------|-------------|------|
| 2,3,7,8-TCDD | 9.83 | 6.70 - 15.8 | |
| 1,2,3,7,8-PeCDD | 49.8 | 35.0 - 71.0 | |
| 1,2,3,4,7,8-HxCDD | 51.1 | 35.0 - 82.0 | |
| 1,2,3,6,7,8-HxCDD | 50.2 | 38.0 - 67.0 | |
| 1,2,3,7,8,9-HxCDD | 51.4 | 32.0 - 81.0 | |
| 1,2,3,4,6,7,8-HpCDD | 50.2 | 35.0 - 70.0 | |
| OCDD | 103 | 78.0 - 144 | |
| | | | |
| 2,3,7,8-TCDF | 9.48 | 7.50 - 15.8 | |
| 1,2,3,7,8-PeCDF | 50.4 | 40.0 - 67.0 | |
| 2,3,4,7,8-PeCDF | 50.2 | 34.0 - 80.0 | |
| 1,2,3,4,7,8-HxCDF | 50.6 | 36.0 - 67.0 | |
| 1,2,3,6,7,8-HxCDF | 50.7 | 42.0 - 65.0 | |
| 2,3,4,6,7,8-HxCDF | 50.2 | 35.0 - 78.0 | |
| 1,2,3,7,8,9-HxCDF | 50.8 | 39.0 - 65.0 | |
| 1,2,3,4,6,7,8-HpCDF | 50.7 | 41.0 - 61.0 | |
| 1,2,3,4,7,8,9-HpCDF | 50.6 | 39.0 - 69.0 | |
| OCDF | 101 | 63.0 - 170 | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 79.9 | 20.0 - 175 | |
| 13C-1,2,3,7,8-PeCDD | 73.9 | 21.0 - 227 | |
| 13C-1,2,3,4,7,8-HxCDD | 68.6 | 21.0 - 193 | |
| 13C-1,2,3,6,7,8-HxCDD | 69.1 | 25.0 - 163 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 66.9 | 26.0 - 166 | |
| 13C-OCDD | 68.2 | 13.0 - 198 | |
| | | | |
| 13C-2,3,7,8-TCDF | 80.6 | 22.0 - 152 | |
| 13C-1,2,3,7,8-PeCDF | 70.8 | 21.0 - 192 | |
| 13C-2,3,4,7,8-PeCDF | 73.8 | 13.0 - 328 | |
| 13C-1,2,3,4,7,8-HxCDF | 68.1 | 19.0 - 202 | |
| 13C-1,2,3,6,7,8-HxCDF | 68.2 | 21.0 - 159 | |
| 13C-2,3,4,6,7,8-HxCDF | 70.2 | 22.0 - 176 | |
| 13C-1,2,3,7,8,9-HxCDF | 71.7 | 17.0 - 205 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 21.0 - 158 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 70.5 | 20.0 - 186 | |
| 13C-OCDF | 70.6 | 13.0 - 198 | |

Cleanup Surrogate

| | | | |
|-------------------|------|------------|--|
| 37Cl-2,3,7,8-TCDD | 95.5 | 31.0 - 191 | |
|-------------------|------|------------|--|

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

Analyst: 
Date: 4/15/10

Reviewed By: DN
Date: 4/15/10

EPA Method 1613
PCDD/F



FAL ID: 6076-001-SA
Client ID: CB31A032910COMP
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: 04-01-2010
Amount: 1.041 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: pg/L

Acquired: 04-14-2010
2005 WHO TEQ: 30.5

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|-------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.09 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | 3.70 | - | J | 3.70 | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 9.09 | - | J | 0.909 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 26.3 | - | | 2.63 | 0.381 | Total TCDD | ND | 1.09 | |
| 1,2,3,7,8,9-HxCDD | 17.4 | - | J | 1.74 | 0.351 | Total PeCDD | 12.3 | - | J |
| 1,2,3,4,6,7,8-HpCDD | 897 | - | | 8.97 | 0.495 | Total HxCDD | 134 | - | |
| OCDD | 10800 | - | | 3.24 | 1.02 | Total HpCDD | 1500 | - | |
| | | | | | | | | | |
| 2,3,7,8-TCDF | ND | 0.549 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 1.54 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | 2.23 | - | J | 0.669 | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 32.5 | - | | 3.25 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 16.0 | - | J | 1.60 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 11.4 | - | J | 1.14 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | 3.06 | - | J | 0.306 | 0.185 | Total TCDF | 34.0 | - | D,M |
| 1,2,3,4,6,7,8-HpCDF | 202 | - | | 2.02 | 0.251 | Total PeCDF | 94.8 | - | D,M |
| 1,2,3,4,7,8,9-HpCDF | 17.9 | - | J | 0.179 | 0.280 | Total HxCDF | 442 | - | D,M |
| OCDF | 578 | - | | 0.173 | 0.451 | Total HpCDF | 656 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 92.1 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 95.0 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 91.5 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 90.3 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 96.8 | 23.0 - 140 | |
| 13C-OCDD | 97.7 | 17.0 - 157 | |
| | | | |
| 13C-2,3,7,8-TCDF | 90.0 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 97.2 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 97.1 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 85.3 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 86.6 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 90.3 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 93.5 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 89.4 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 95.2 | 26.0 - 138 | |
| 13C-OCDF | 94.8 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 99.3 35.0 - 197

Analyst: [Signature]

Date: 4/15/10

Reviewed By: [Signature]

Date: 4/15/10

EPA Method 1613
PCDD/F



FAL ID: 6076-002-SA
Client ID: CB4857032910COMP
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: 04-01-2010
Amount: 1.029 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: pg/L

Acquired: 04-14-2010
2005 WHO TEQ: 29.2

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|-------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.18 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | 3.85 | - | J | 3.85 | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 9.07 | - | J | 0.907 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 24.6 | - | | 2.46 | 0.381 | Total TCDD | ND | 1.18 | |
| 1,2,3,7,8,9-HxCDD | 16.4 | - | J | 1.64 | 0.351 | Total PeCDD | 12.4 | - | J |
| 1,2,3,4,6,7,8-HpCDD | 855 | - | | 8.55 | 0.495 | Total HxCDD | 133 | - | |
| OCDD | 10900 | - | | 3.27 | 1.02 | Total HpCDD | 1460 | - | |
| | | | | | | | | | |
| 2,3,7,8-TCDF | ND | 0.654 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 1.36 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | 1.89 | - | J | 0.567 | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 28.7 | - | | 2.87 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 14.5 | - | J | 1.45 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 10.9 | - | J | 1.09 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | 3.26 | - | J | 0.326 | 0.185 | Total TCDF | 29.5 | - | D,M |
| 1,2,3,4,6,7,8-HpCDF | 186 | - | | 1.86 | 0.251 | Total PeCDF | 85.1 | - | D,M |
| 1,2,3,4,7,8,9-HpCDF | 16.8 | - | J | 0.168 | 0.280 | Total HxCDF | 396 | - | D,M |
| OCDF | 500 | - | | 0.150 | 0.451 | Total HpCDF | 590 | - | |

| Internal Standards | % Rec. | QC Limits | Qual |
|-------------------------|--------|------------|------|
| 13C-2,3,7,8-TCDD | 85.9 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 82.6 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 83.0 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 80.8 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 86.9 | 23.0 - 140 | |
| 13C-OCDD | 92.1 | 17.0 - 157 | |
| | | | |
| 13C-2,3,7,8-TCDF | 89.4 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 89.2 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 90.2 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 78.4 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 78.8 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 82.1 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 86.2 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 81.7 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 87.9 | 26.0 - 138 | |
| 13C-OCDF | 88.1 | 17.0 - 157 | |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.5 35.0 - 197

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

Analyst: [Signature]
Date: 4/15/10

Reviewed By: DN
Date: 4/15/10

EPA Method 1613
PCDD/F



FAL ID: 6076-003-SA
Client ID: CB1032910COMP
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: 04-01-2010
Amount: 1.023 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: pg/L

Acquired: 04-14-2010
2005 WHO TEQ: 0.375

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 0.888 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 0.889 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 1.53 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 1.79 | | - | 0.381 | Total TCDD | ND | 0.888 | |
| 1,2,3,7,8,9-HxCDD | ND | 1.62 | | - | 0.351 | Total PeCDD | ND | 0.889 | |
| 1,2,3,4,6,7,8-HpCDD | 26.0 | - | | 0.260 | 0.495 | Total HxCDD | 8.32 | - | J |
| OCDD | 196 | - | | 0.0588 | 1.02 | Total HpCDD | 52.9 | - | |
| 2,3,7,8-TCDF | ND | 0.859 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.498 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.489 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.771 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.785 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.820 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.838 | | - | 0.185 | Total TCDF | ND | 0.859 | |
| 1,2,3,4,6,7,8-HpCDF | 5.20 | - | J | 0.0520 | 0.251 | Total PeCDF | ND | 1.53 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.650 | | - | 0.280 | Total HxCDF | 6.84 | - | J |
| OCDF | 13.1 | - | J | 0.00393 | 0.451 | Total HpCDF | 12.4 | - | J |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 91.1 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 85.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 84.9 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 82.6 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 85.5 | 23.0 - 140 | |
| 13C-OCDD | 83.3 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 88.4 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 89.2 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 89.8 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 81.4 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 80.0 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 82.9 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 85.9 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 81.1 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 84.4 | 26.0 - 138 | |
| 13C-OCDF | 84.8 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 88.5 35.0 - 197

Analyst: [Signature]

Date: 4/15/10

Reviewed By: BN

Date: 4/15/10

EPA Method 1613
PCDD/F



FAL ID: 6076-004-SA
Client ID: CB100032910COMP
Matrix: Aqueous
Batch No: X1987

Date Extracted: 04-13-2010
Date Received: 04-01-2010
Amount: 1.028 L

ICal: PCDDFAL3-4-14-10
GC Column: DB5
Units: pg/L

Acquired: 04-14-2010
2005 WHO TEQ: 36.5

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.22 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | 5.83 | - | J | 5.83 | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 11.1 | - | J | 1.11 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 32.0 | - | - | 3.20 | 0.381 | Total TCDD | ND | 1.22 | |
| 1,2,3,7,8,9-HxCDD | 21.4 | - | J | 2.14 | 0.351 | Total PeCDD | 16.2 | - | J |
| 1,2,3,4,6,7,8-HpCDD | 1030 | - | - | 10.3 | 0.495 | Total HxCDD | 170 | - | - |
| OCDD | 9960 | - | - | 2.99 | 1.02 | Total HpCDD | 1730 | - | - |
| 2,3,7,8-TCDF | ND | 0.588 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | 1.90 | - | J | 0.0570 | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | 3.14 | - | J | 0.942 | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 38.1 | - | - | 3.81 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 16.3 | - | J | 1.63 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 14.4 | - | J | 1.44 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | 3.67 | - | J | 0.367 | 0.185 | Total TCDF | 35.8 | - | D,M |
| 1,2,3,4,6,7,8-HpCDF | 231 | - | - | 2.31 | 0.251 | Total PeCDF | 105 | - | D,M |
| 1,2,3,4,7,8,9-HpCDF | 20.8 | - | J | 0.208 | 0.280 | Total HxCDF | 488 | - | D,M |
| OCDF | 642 | - | - | 0.193 | 0.451 | Total HpCDF | 733 | - | - |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 88.8 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 83.5 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 85.1 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 80.2 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 85.0 | 23.0 - 140 | |
| 13C-OCDD | 89.2 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 87.5 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 86.1 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 86.3 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 80.3 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 79.8 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 82.6 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 84.2 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 80.5 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 84.6 | 26.0 - 138 | |
| 13C-OCDF | 85.5 | 17.0 - 157 | |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 94.0 35.0 - 197

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

Analyst: [Signature]
Date: 4/15/10

Reviewed By: DN
Date: 4/15/10

SUBCONTRACTOR ANALYSIS REQUEST
 CUSTODY TRANSFER 03/30/10



6076
 OOC
 ARI Project: Q059

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

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

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 05/30/08
 Fax Results (Y/N): email

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

| ARI ID | Client ID/ Add'l ID | Sampled | Matrix | Bottles | Analyses |
|----------------------------|------------------------|-------------------|--------|---------|-------------------------|
| 10-8212-QQ59A | CB31A032910COMP | 03/29/10 18:12 | Water | 1 | Dioxin/Furans 1613(Sub) |
| Special Instructions: None | | | | | |
| 10-8213-QQ59B | CB4857032910COMP | 03/29/10 19:00 | Water | 1 | Dioxin/Furans 1613(Sub) |
| Special Instructions: None | | | | | |
| 10-8214-QQ59C | CB1032910COMP | 03/29/10 18:54 | Water | 1 | Dioxin/Furans 1613(Sub) |
| Special Instructions: None | | | | | |
| 10-8215-QQ59D | CB100032910COMP | 03/29/10 19:12 | Water | 1 | Dioxin/Furans 1613(Sub) |
| Special Instructions: None | | | | | |

L4 è EDD

| | | |
|---------------------------------------|-------------------------------|-----------------|
| Carrier UPS | Airbill 128326950151005778 | Date 3/31/10 |
| Relinquished by <i>[Signature]</i> | Company ARI | Date 3/31/10 |
| Received by <i>[Signature]</i> | Company Frontier | Date 4/1/10 |
| | | Time 1355 |
| | | Time 1020 |

Frontier Analytical Laboratory

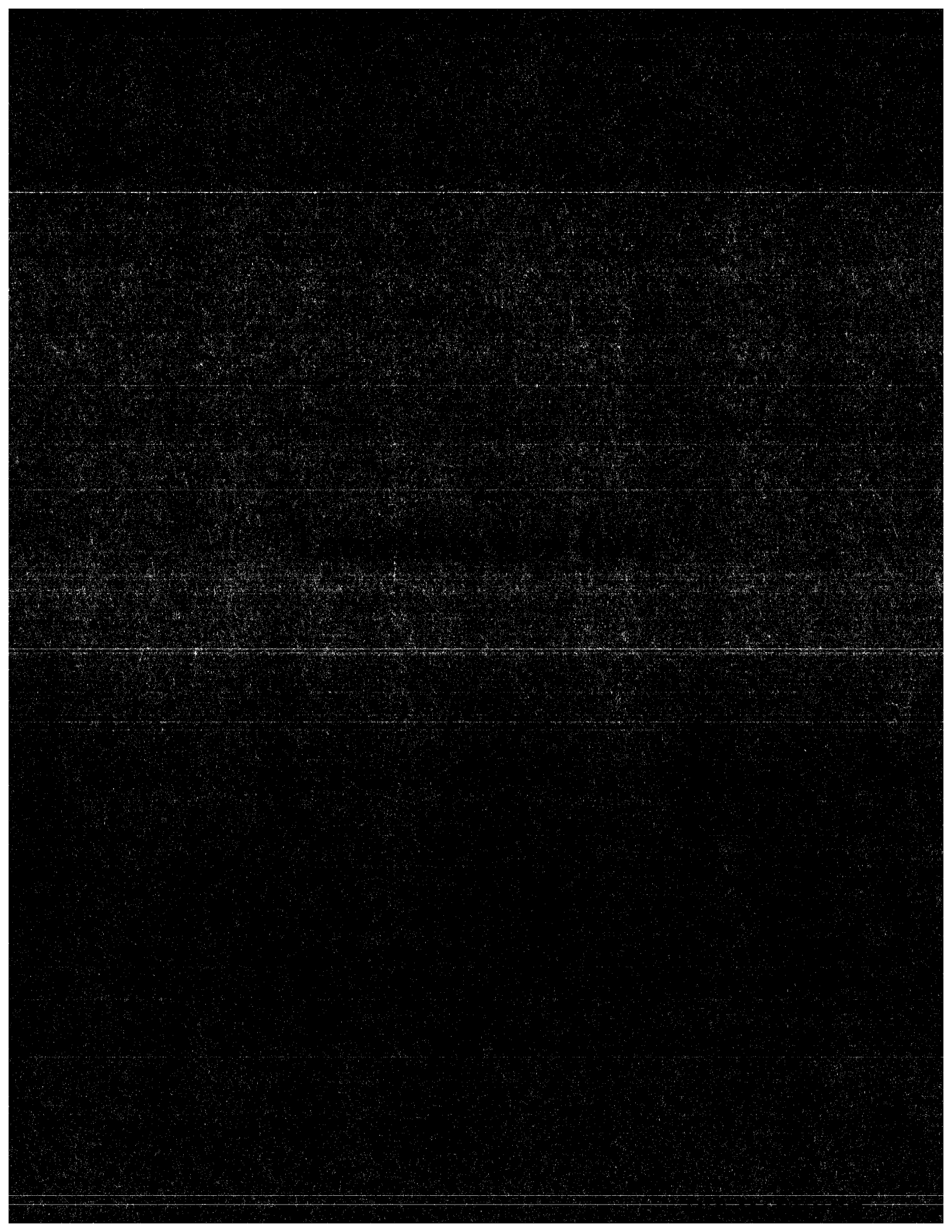
Sample Login Form

FAL Project ID: **6076**

| | |
|------------------------|--|
| Client: | Analytical Resources Inc. Sue Dunninghoo |
| Client Project ID: | QQ59 |
| Date Received: | 04/01/2010 |
| Time Received: | 10:20 am |
| Received By: | KZ |
| Logged In By: | KZ |
| # of Samples Received: | 4 |
| Duplicates: | 0 |
| Storage Location: | R1 |

| | |
|--------------------------------------|--------------------|
| Method of Delivery: | UPS |
| Tracking Number: | 1Z8326950151005778 |
| Shipping Container Received Intact | Yes |
| Custody seals(s) present? | Yes |
| Custody seals(s) intact? | Yes |
| Sample Arrival Temperature (C) | 0 |
| Cooling Method | Ice |
| Chain Of Custody Present? | Yes |
| Return Shipping Container To Client | Yes |
| Test for residual Chlorine | Yes |
| Thiosulfate Added | No |
| Earliest Sample Hold Time Expiration | 03/29/2011 |
| Adequate Sample Volume | Yes |
| Anomalies or additional comments: | |





Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6076 Sample #: 1-4 Client Manager: BS
 Client: Analytical Resources Inc. Sue Dunning Hold Time: 03/29/2011
 Matrix: Aqueous Extraction Batch: 1987 Due Date: 04/23/2010
 Method: EPA 1613 D/F Storage: R1
 SOP: SOPs: EP2A Rev.7 IP2A Rev.8

COMMENTS/INSTRUCTIONS:

- NC -

| Sample | Full Weight (g) | Empty Weight (g) |
|------------------|-----------------|------------------|
| 6076-001-0001-SA | 1534.8 | 493.97 |
| 6076-002-0001-SA | 1522.9 | 493.96 |
| 6076-003-0001-SA | 1516.2 | 493.58 |
| 6076-004-0001-SA | 1521.7 | 494.08 |

Results: 6076

Instrument: FAL3
 DB5 _____
 DB225 _____
 DB1 _____
 Other _____

Extract/s located in box: "Bullet with Butterfly Wings"

Standards: 6076

EXTRACTION SHEET

Project #: 6076 Extraction Date: 2010-04-13 Extraction Chemist: GN

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

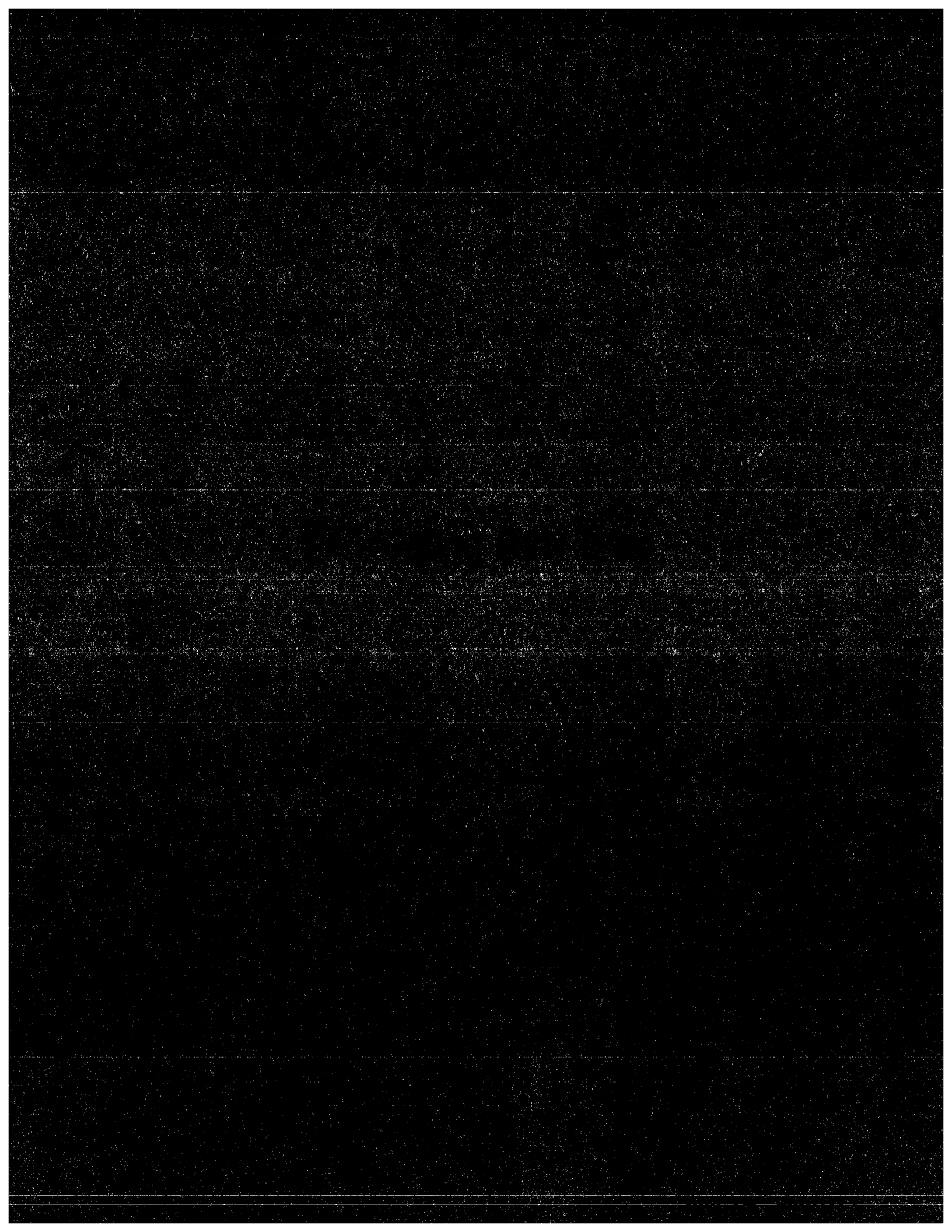
Solvent: Toluene

| Sample ID | Wet wt. (g/L) | Dry wt. (g/L) | IS | | NS | | CSS | |
|-------------------|------------------|------------------|---|------------|---|----|---|--|
| | | | Amt: 10.0uL ID: 090918A Vial: 5 Chemist/Witness/Date | | Amt: 10.0uL ID: 090918B Vial: 5 Chemist/Witness/Date | | Amt: 10.0uL ID: 090918C Vial: 5 Chemist/Witness/Date | |
| 1987-001-0001-MB | | | | | | | | |
| 1987-001-0001-OPR | | | | | | | | |
| 6076-001-0001-SA | 1.041 | | GN | GN 4/13/10 | NA | GN | GN 4/14/10 | |
| 6076-002-0001-SA | 1.029 | | | ↓ | | | ↓ | |
| 6076-003-0001-SA | 1.023 | | | | | | | |
| 6076-004-0001-SA | 1.028 | | | ↓ | | | ↓ | |
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60165

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|------------------------|--------|----------------|----------|--------------------------|---------|-------------|-----------|
| AX-21 Charcoal Cleaned | 031210 | Acetone | 49317 | Acid Alumina | 08623DJ | Hexane | 50034 |
| Hydrochloric Acid | B08505 | Methanol | 096965 | Methylene Chloride (DCM) | 50043 | Silica Gel | TA1593034 |
| Sodium Hydroxide | 9265 | Sodium Sulfate | 49009905 | Sulfuric Acid | 096894 | Tetradecane | 081394 |
| Toluene | 49110 | Water | 50028 | C-18 Empore Discs | 320505 | Cyclohexane | 48151 |


Comments:



Sample Results

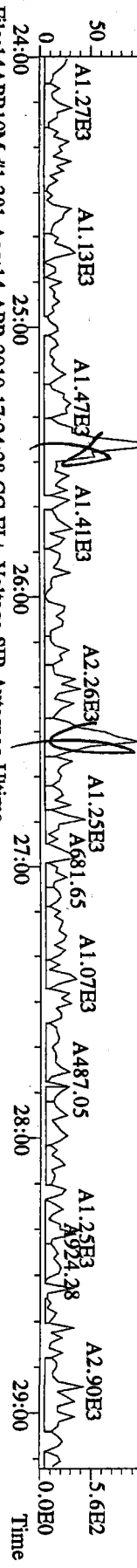
FAL ID: 1987-001-0001-MB Filename: 14APR10M Sam:9 Acquired: 14-APR-10 17:24:28 ICal: PCDDFAL3-4-14-10
 Client ID: Method Blank ConCal: ST041410M3 EndCal: ST041410M6
 Results: 1987 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00 WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | #Hom | |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|-----|-------|---------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 359 | 573 | 0.982 | |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 1.07 | * | | 2.50 | 323 | 309 | 0.720 | |
| 1,2,3,4,7,8-HxCDD | * | * n | NotFnd | 1.39 | * | | 2.50 | 471 | 395 | 0.990 | |
| 1,2,3,6,7,8-HxCDD | * | * n | NotFnd | 1.36 | * | | 2.50 | 471 | 395 | 1.16 | |
| 1,2,3,7,8,9-HxCDD | * | * n | NotFnd | 1.40 | * | | 2.50 | 471 | 395 | 1.05 | |
| 1,2,3,4,6,7,8-HpCDD | * | * n | NotFnd | 1.14 | * | | 2.50 | 526 | 462 | 1.53 | |
| OCDD | * | * n | NotFnd | 1.22 | * | | 2.50 | 545 | 664 | 2.95 | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 292 | 622 | 0.445 | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 441 | 472 | 0.658 | |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 441 | 472 | 0.712 | |
| 1,2,3,4,7,8-HxCDF | * | * n | NotFnd | 1.07 | * | | 2.50 | 428 | 309 | 0.612 | |
| 1,2,3,6,7,8-HxCDF | * | * n | NotFnd | 0.97 | * | | 2.50 | 428 | 309 | 0.634 | |
| 2,3,4,6,7,8-HxCDF | * | * n | NotFnd | 1.04 | * | | 2.50 | 428 | 309 | 0.639 | |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.15 | * | | 2.50 | 428 | 309 | 0.696 | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | NotFnd | 1.37 | * | | 2.50 | 302 | 547 | 0.866 | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | NotFnd | 1.62 | * | | 2.50 | 302 | 547 | 0.913 | |
| OCDF | * | * n | NotFnd | 0.85 | * | | 2.50 | 418 | 451 | 1.64 | |
| | | | | | | | | | | Rec | |
| 13C-2,3,7,8-TCDD | 1.67e+07 | 0.74 y | 27:16 | 0.98 | 1680 | | | | | 83.9 | |
| 13C-1,2,3,7,8-PeCDD | 1.88e+07 | 1.61 y | 33:06 | 1.14 | 1630 | | | | | 81.6 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.46e+07 | 1.31 y | 38:27 | 1.00 | 1570 | | | | | 78.4 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.31e+07 | 1.29 y | 38:37 | 0.89 | 1580 | | | | | 79.1 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.42e+07 | 1.03 y | 44:02 | 1.01 | 1510 | | | | | 75.4 | |
| 13C-OCDD | 2.14e+07 | 0.94 y | 49:32 | 0.75 | 3080 | | | | | 77.0 | |
| 13C-2,3,7,8-TCDF | 3.31e+07 | 0.88 y | 26:31 | 0.93 | 1640 | | | | | 82.1 | |
| 13C-1,2,3,7,8-PeCDF | 3.21e+07 | 1.67 y | 31:21 | 0.93 | 1590 | | | | | 79.5 | |
| 13C-2,3,4,7,8-PeCDF | 3.10e+07 | 1.65 y | 32:41 | 0.87 | 1630 | | | | | 81.3 | |
| 13C-1,2,3,4,7,8-HxCDF | 2.61e+07 | 0.47 y | 37:03 | 1.82 | 1550 | | | | | 77.3 | |
| 13C-1,2,3,6,7,8-HxCDF | 2.84e+07 | 0.47 y | 37:15 | 2.01 | 1530 | | | | | 76.5 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.61e+07 | 0.47 y | 38:11 | 1.77 | 1590 | | | | | 79.5 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.32e+07 | 0.46 y | 39:37 | 1.57 | 1600 | | | | | 80.0 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.73e+07 | 0.47 y | 42:07 | 1.24 | 1500 | | | | | 75.1 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.47e+07 | 0.46 y | 44:57 | 0.99 | 1600 | | | | | 79.9 | |
| 13C-OCDF | 3.88e+07 | 0.92 y | 49:55 | 1.32 | 3180 | | | | | 79.6 | |
| 37Cl-2,3,7,8-TCDD | 7.63e+06 | | 27:18 | 1.10 | 683 | | | | | 85.4 | |
| 13C-1,2,3,4-TCDD | 2.03e+07 | 0.74 y | 26:42 | - | 116 | | | | | | |
| 13C-1,2,3,4-TCDF | 4.36e+07 | 0.88 y | 25:26 | - | 118 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.85e+07 | 1.29 y | 39:03 | - | 113 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.12 | * | | 2.50 | 359 | 573 | 0.982 | 0 |
| Total Penta-Dioxins | * | | NotFnd | 1.07 | * | | 2.50 | 323 | 309 | 0.720 | 0 |
| Total Hexa-Dioxins | * | | NotFnd | 1.38 | * | | 2.50 | 471 | 395 | 1.16 | 0 |
| Total Hepta-Dioxins | * | | NotFnd | 1.14 | * | | 2.50 | 526 | 462 | 1.53 | 0 |
| Total Tetra-Furans | * | | NotFnd | 1.29 | * | | 2.50 | 292 | 622 | 0.445 | 0 |
| 1st Fn. Tot Penta-Furans | * | | NotFnd | 0.93 | * | | 2.50 | 441 | 472 | 0.712 | PeCDF 0 |
| Total Penta-Furans | * | | NotFnd | 0.93 | * | | 2.50 | 441 | 472 | 0.712 | * 0 |
| Total Hexa-Furans | * | | NotFnd | 1.05 | * | | 2.50 | 428 | 309 | 0.696 | 0 |
| Total Hepta-Furans | * | | NotFnd | 1.48 | * | | 2.50 | 302 | 547 | 0.913 | 0 |

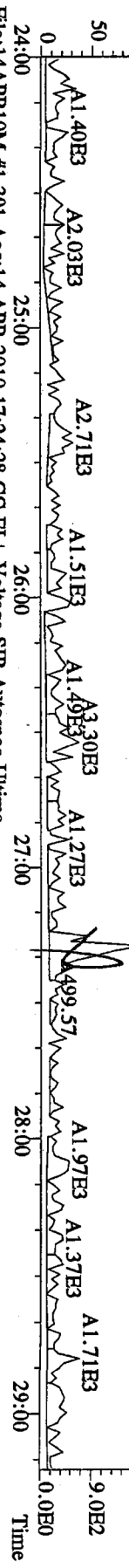
Analyst: 

Date: 4/15/10

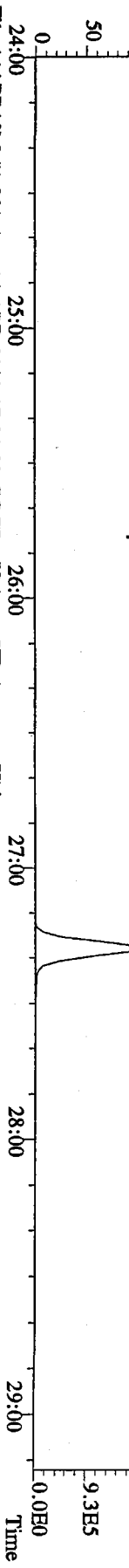
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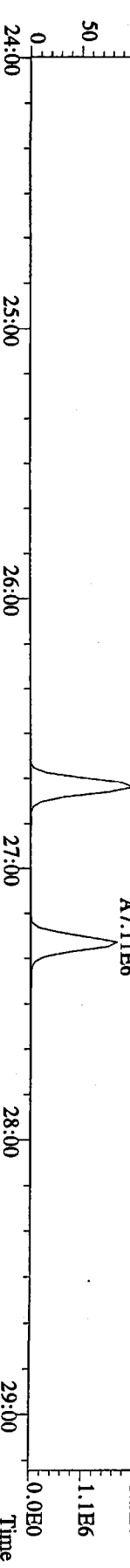
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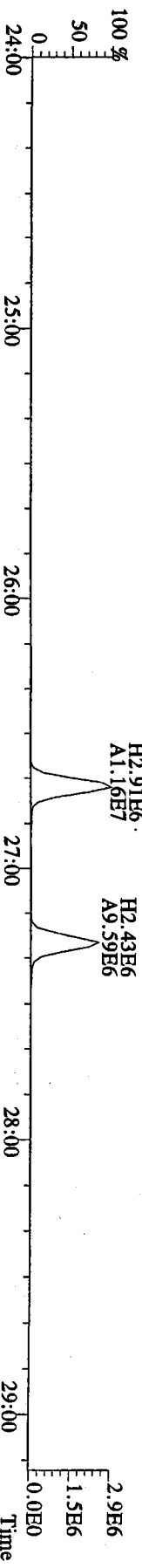
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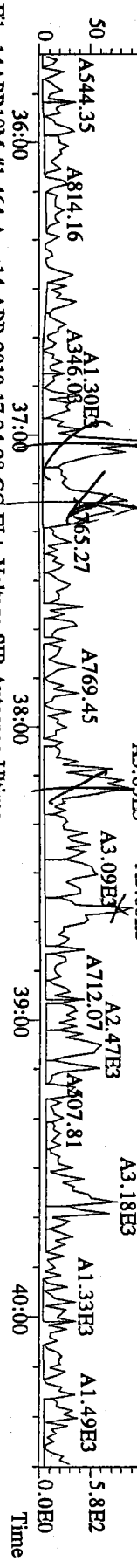
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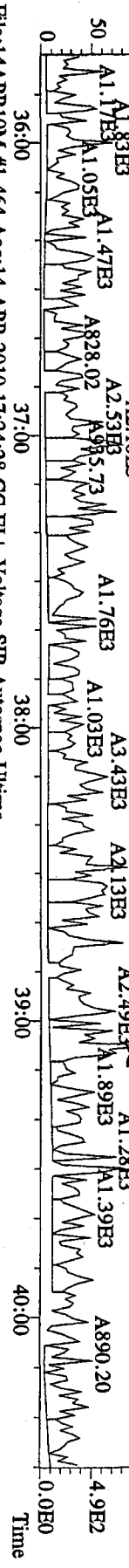
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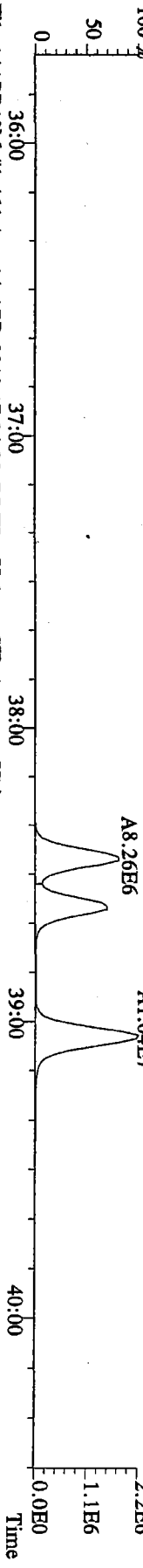
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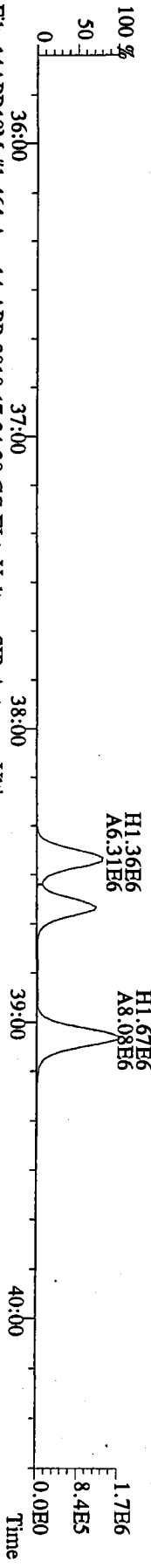
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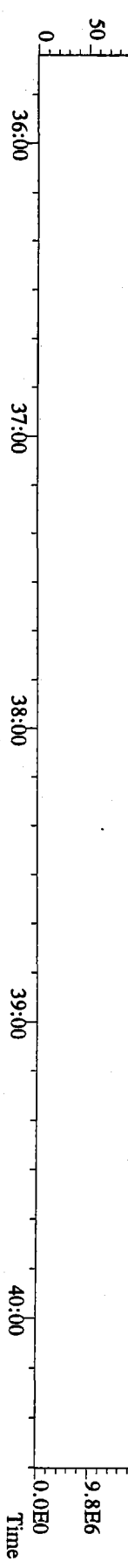
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 Sample Text:1987-001-0001-MB File Text:Frontier Analytical Laboratory



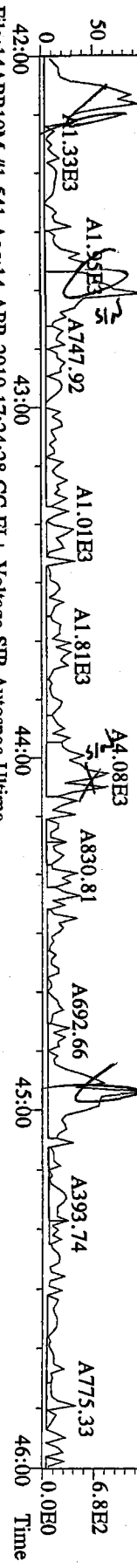
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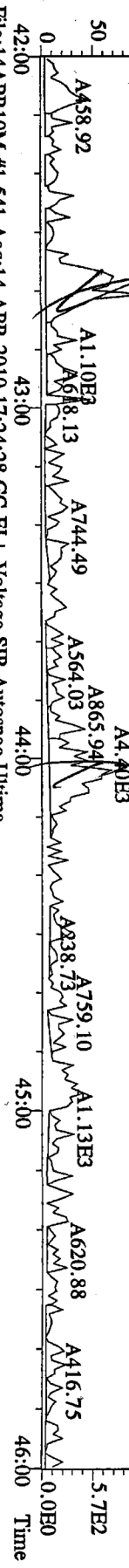
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 Sample Text:1987-001-0001-MB File Text:Frontier Analytical Laboratory



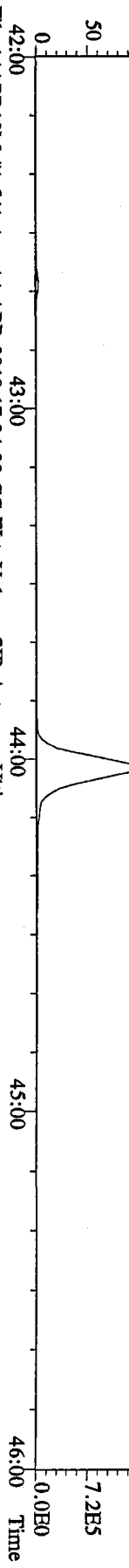
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 423.7767 S:9 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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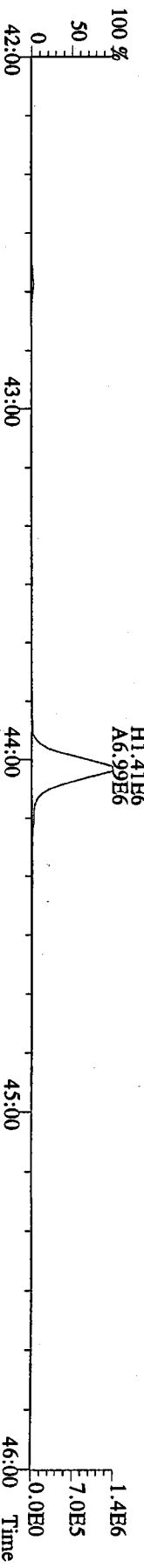
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 425.7737 S:9 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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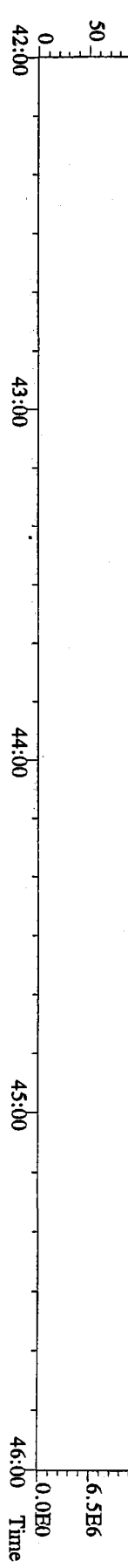
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 100 %A7.17E6



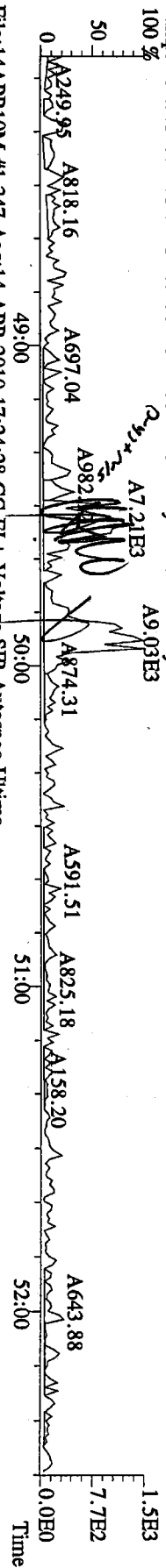
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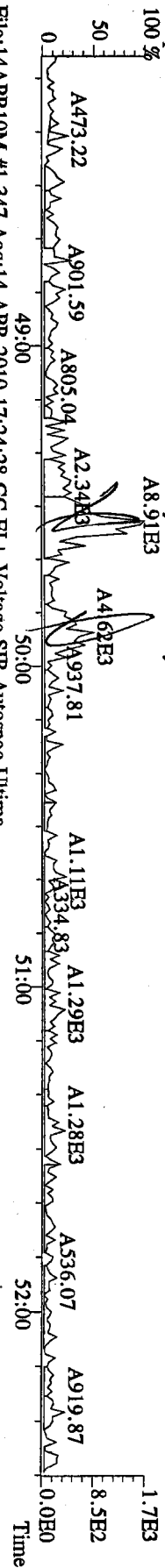
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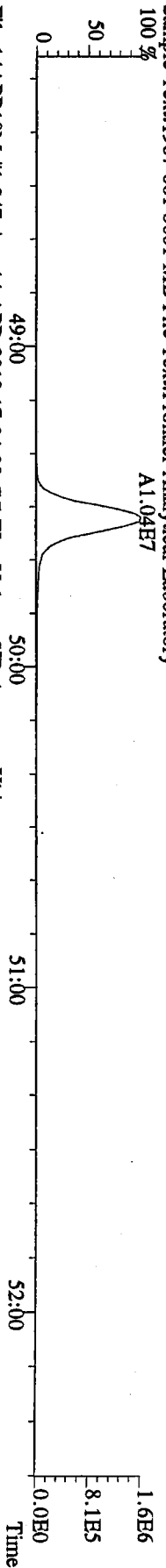
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 457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:CDD
 Sample Text:1987-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



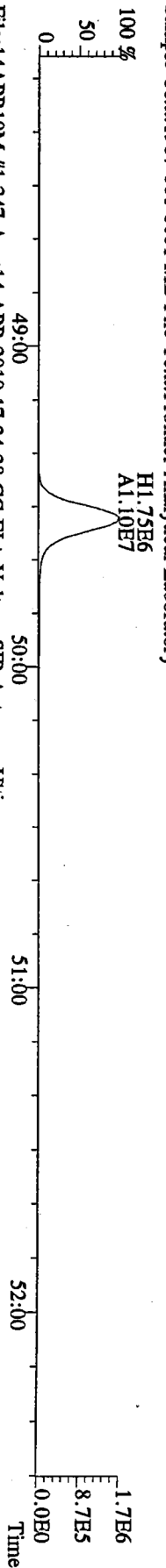
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 459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:CDD
 Sample Text:1987-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



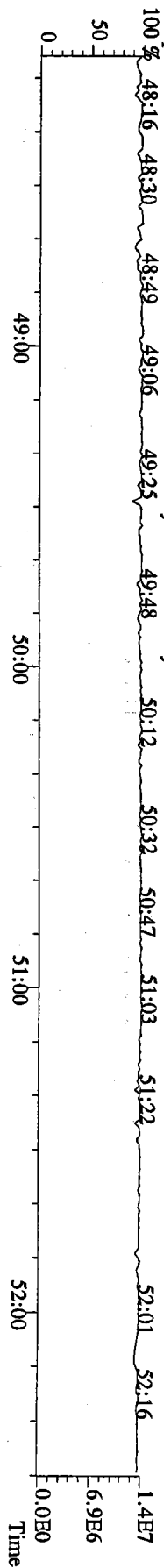
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 100 %



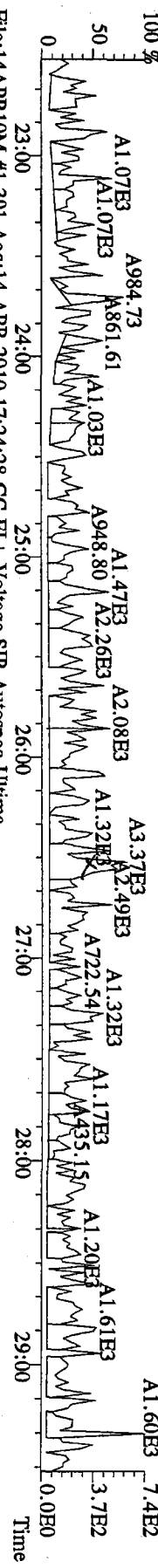
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 100 %



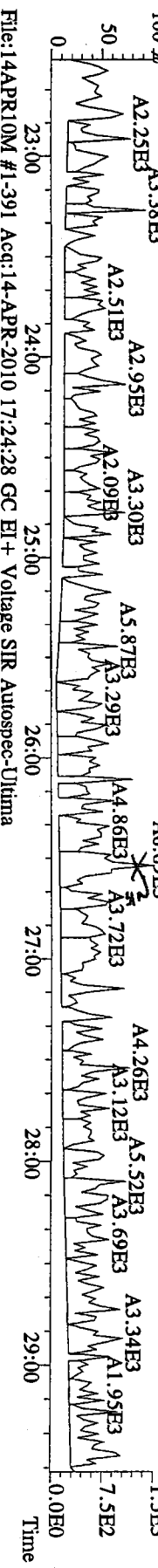
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 454.9728 S:9 F:5 Exp:P:CDD
 Sample Text:1987-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



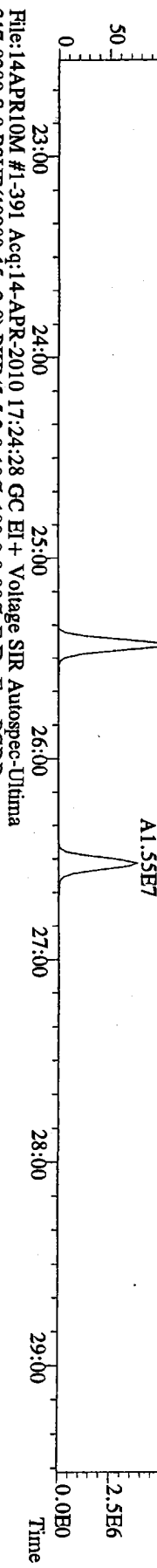
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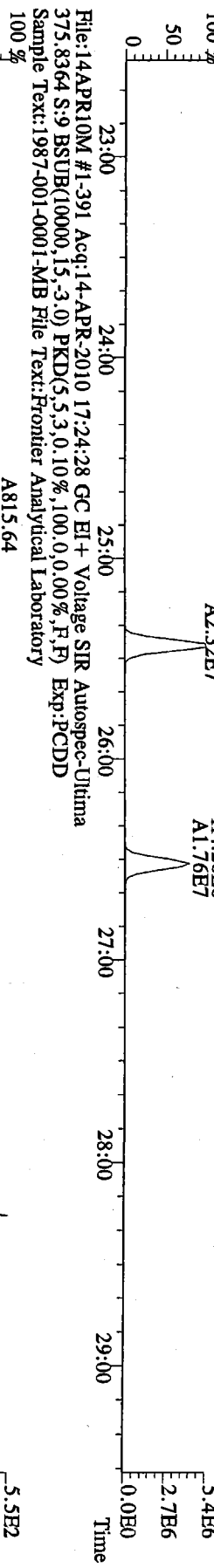
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 305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-MIB File Text:Frontier Analytical Laboratory



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 315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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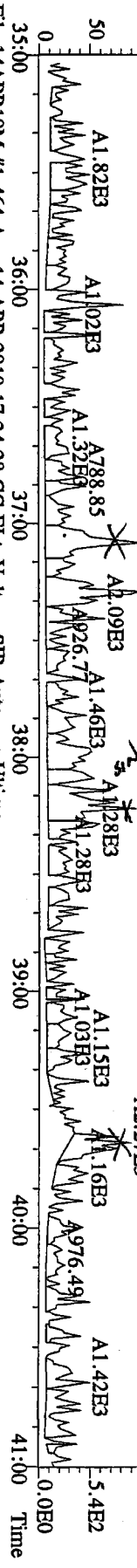


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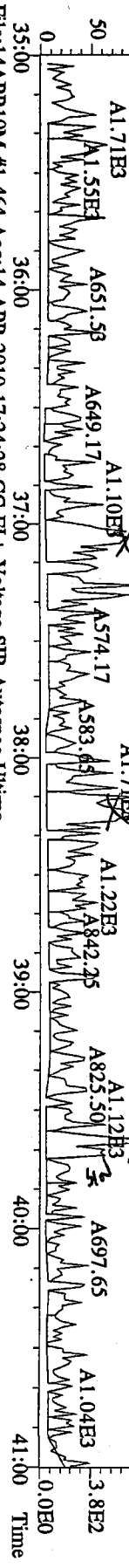


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 Sample Text:1987-001-0001-MIB File Text:Frontier Analytical Laboratory

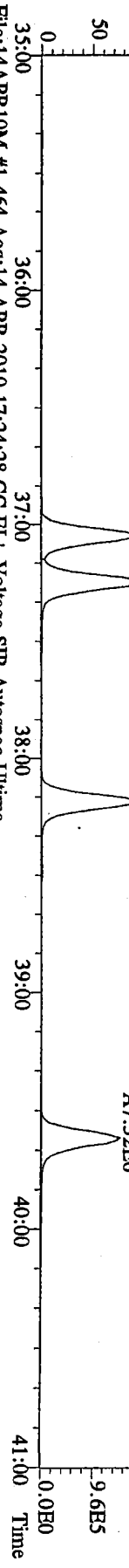
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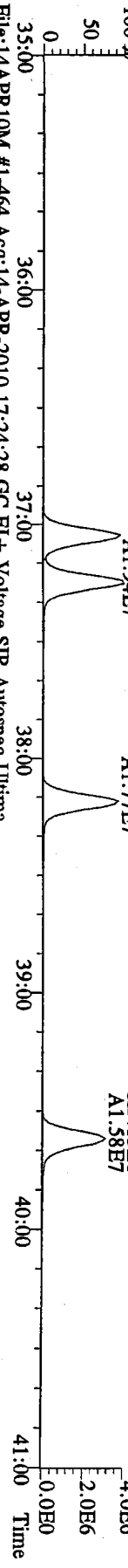
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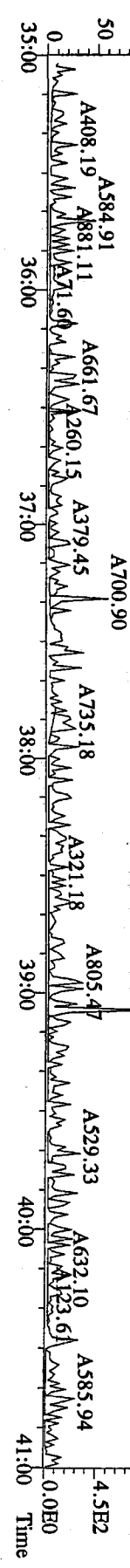
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File:14APR10M #1-464 Acq:14-APR-2010 17:24:28 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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2575 : 000000

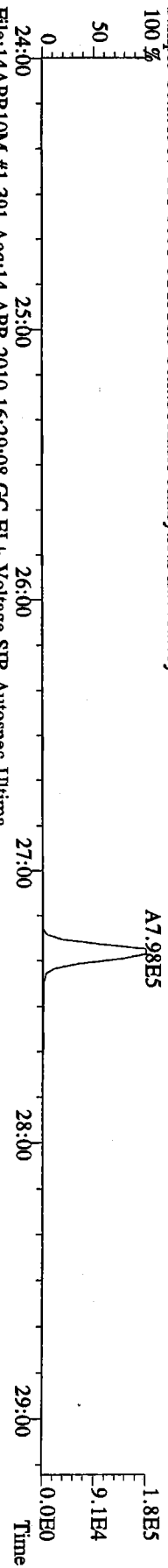
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 Client ID: OPR ConCal: ST041410M3 EndCal: ST041410M6
 Results: 1987 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 101

| Name | Resp | RA | RT | RRF | WHO 1998 Tox: | | WHO 2005 Tox: | | 114 DL | |
|--------------------------|----------|--------|-------|------|---------------|------|---------------|---------|--------|----------|
| | | | | | Conc | Qual | Fac Noise-1 | Noise-2 | | |
| 2,3,7,8-TCDD | 1.78e+06 | 0.81 y | 27:18 | 1.12 | 9.83 | | 2.50 | - | * | |
| 1,2,3,7,8-PeCDD | 9.24e+06 | 1.58 y | 33:07 | 1.07 | 49.8 | | 2.50 | - | * | |
| 1,2,3,4,7,8-HxCDD | 9.40e+06 | 1.29 y | 38:28 | 1.39 | 51.1 | | 2.50 | - | * | |
| 1,2,3,6,7,8-HxCDD | 8.04e+06 | 1.29 y | 38:38 | 1.36 | 50.2 | | 2.50 | - | * | |
| 1,2,3,7,8,9-HxCDD | 9.01e+06 | 1.29 y | 39:04 | 1.40 | 51.4 | | 2.50 | - | * | |
| 1,2,3,4,6,7,8-HpCDD | 7.41e+06 | 0.94 y | 44:03 | 1.14 | 50.2 | | 2.50 | - | * | |
| OCDD | 1.22e+07 | 0.90 y | 49:34 | 1.22 | 103 | | 2.50 | - | * | |
| 2,3,7,8-TCDF | 4.07e+06 | 0.68 y | 26:33 | 1.29 | 9.48 | | 2.50 | - | * | |
| 1,2,3,7,8-PeCDF | 1.37e+07 | 1.67 y | 31:23 | 0.93 | 50.4 | | 2.50 | - | * | |
| 2,3,4,7,8-PeCDF | 1.35e+07 | 1.68 y | 32:42 | 0.93 | 50.2 | | 2.50 | - | * | |
| 1,2,3,4,7,8-HxCDF | 1.28e+07 | 1.24 y | 37:04 | 1.07 | 50.6 | | 2.50 | - | * | |
| 1,2,3,6,7,8-HxCDF | 1.29e+07 | 1.26 y | 37:17 | 0.97 | 50.7 | | 2.50 | - | * | |
| 2,3,4,6,7,8-HxCDF | 1.25e+07 | 1.23 y | 38:13 | 1.04 | 50.2 | | 2.50 | - | * | |
| 1,2,3,7,8,9-HxCDF | 1.25e+07 | 1.24 y | 39:38 | 1.15 | 50.8 | | 2.50 | - | * | |
| 1,2,3,4,6,7,8-HpCDF | 1.06e+07 | 1.03 y | 42:09 | 1.37 | 50.7 | | 2.50 | - | * | |
| 1,2,3,4,7,8,9-HpCDF | 1.10e+07 | 1.02 y | 44:58 | 1.62 | 50.6 | | 2.50 | - | * | |
| OCDF | 1.53e+07 | 0.90 y | 49:57 | 0.85 | 101 | | 2.50 | - | * | |
| | | | | | | | | | Rec | |
| 13C-2,3,7,8-TCDD | 1.62e+07 | 0.75 y | 27:16 | 0.98 | 79.9 | | | | 79.9 | |
| 13C-1,2,3,7,8-PeCDD | 1.73e+07 | 1.63 y | 33:06 | 1.14 | 73.9 | | | | 73.9 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.32e+07 | 1.31 y | 38:27 | 1.00 | 68.6 | | | | 68.6 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.18e+07 | 1.30 y | 38:37 | 0.89 | 69.1 | | | | 69.1 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.30e+07 | 1.03 y | 44:03 | 1.01 | 66.9 | | | | 66.9 | |
| 13C-OCDD | 1.96e+07 | 0.94 y | 49:32 | 0.75 | 136 | | | | 68.2 | |
| 13C-2,3,7,8-TCDF | 3.34e+07 | 0.87 y | 26:31 | 0.93 | 80.6 | | | | 80.6 | |
| 13C-1,2,3,7,8-PeCDF | 2.94e+07 | 1.66 y | 31:22 | 0.93 | 70.8 | | | | 70.8 | |
| 13C-2,3,4,7,8-PeCDF | 2.89e+07 | 1.65 y | 32:41 | 0.87 | 73.8 | | | | 73.8 | |
| 13C-1,2,3,4,7,8-HxCDF | 2.37e+07 | 0.47 y | 37:04 | 1.82 | 68.1 | | | | 68.1 | |
| 13C-1,2,3,6,7,8-HxCDF | 2.62e+07 | 0.46 y | 37:15 | 2.01 | 68.2 | | | | 68.2 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.39e+07 | 0.47 y | 38:12 | 1.77 | 70.2 | | | | 70.2 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.15e+07 | 0.46 y | 39:38 | 1.57 | 71.7 | | | | 71.7 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.53e+07 | 0.47 y | 42:07 | 1.24 | 64.4 | | | | 64.4 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.34e+07 | 0.46 y | 44:57 | 0.99 | 70.5 | | | | 70.5 | |
| 13C-OCDF | 3.56e+07 | 0.91 y | 49:54 | 1.32 | 141 | | | | 70.6 | |
| 37Cl-2,3,7,8-TCDD | 8.69e+06 | | 27:18 | 1.10 | 38.2 | | | | 95.5 | |
| 13C-1,2,3,4-TCDD | 2.07e+07 | 0.75 y | 26:42 | - | 118 | | | | | |
| 13C-1,2,3,4-TCDF | 4.48e+07 | 0.87 y | 25:27 | - | 121 | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.91e+07 | 1.30 y | 39:04 | - | 117 | | | | | |
| Total Tetra-Dioxins | 1.82e+06 | | 23:14 | 1.12 | 10.1 | | 2.50 | - | * | #Hom 15 |
| Total Penta-Dioxins | 9.28e+06 | | 31:21 | 1.07 | 50.0 | | 2.50 | - | * | 5 |
| Total Hexa-Dioxins | 2.65e+07 | | 37:21 | 1.38 | 153 | | 2.50 | - | * | 5 |
| Total Hepta-Dioxins | 7.62e+06 | | 42:40 | 1.14 | 51.6 | | 2.50 | - | * | 11 |
| Total Tetra-Furans | 4.20e+06 | | 24:04 | 1.29 | 9.79 | | 2.50 | - | * | 6 |
| 1st Fn. Tot Penta-Furans | 4.59e+04 | | 23:03 | 0.93 | 0.170 | | 2.50 | - | * | PeCDF 28 |
| Total Penta-Furans | 2.76e+07 | | 30:07 | 0.93 | 102 | | 2.50 | - | * | 102 8 |
| Total Hexa-Furans | 5.09e+07 | | 35:08 | 1.05 | 203 | | 2.50 | - | * | 15 |
| Total Hepta-Furans | 2.18e+07 | | 42:09 | 1.48 | 102 | | 2.50 | - | * | 6 |

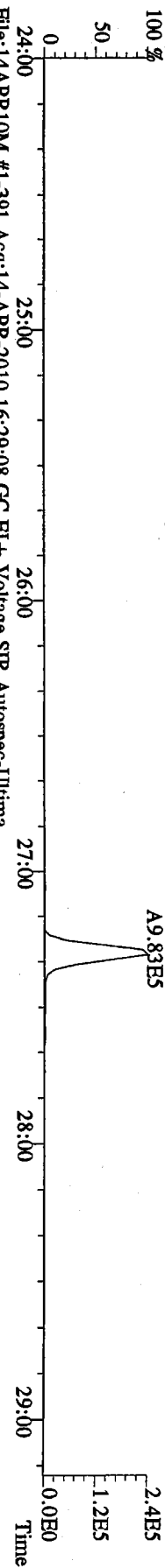
Analyst: 

Date: 4/15/10

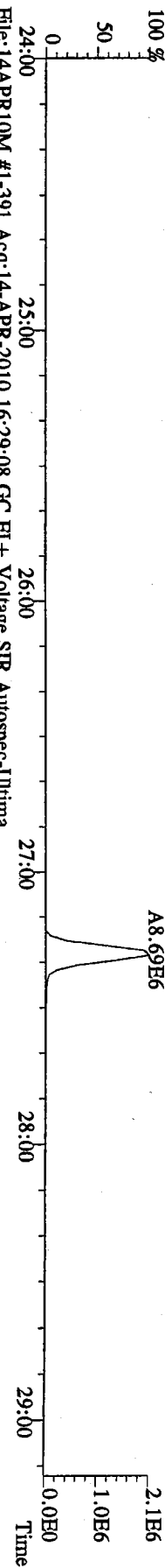
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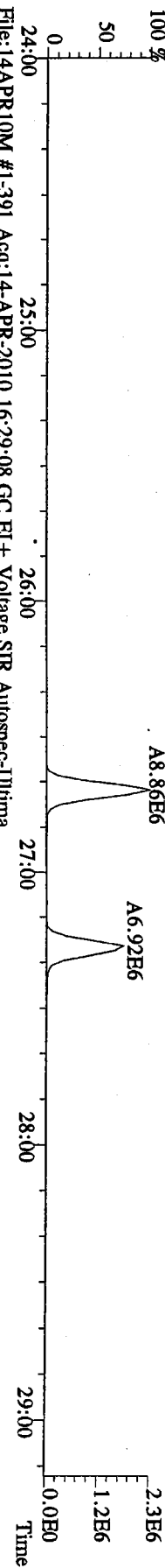
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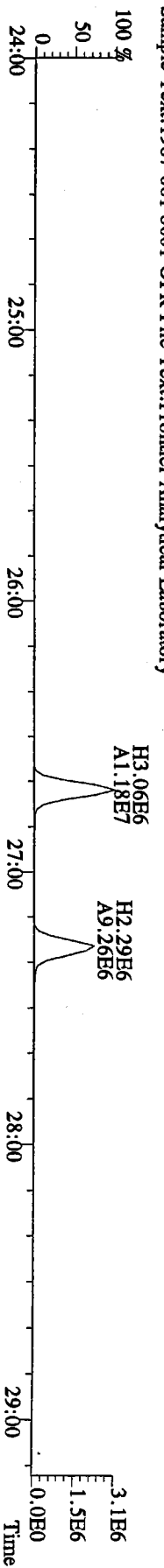
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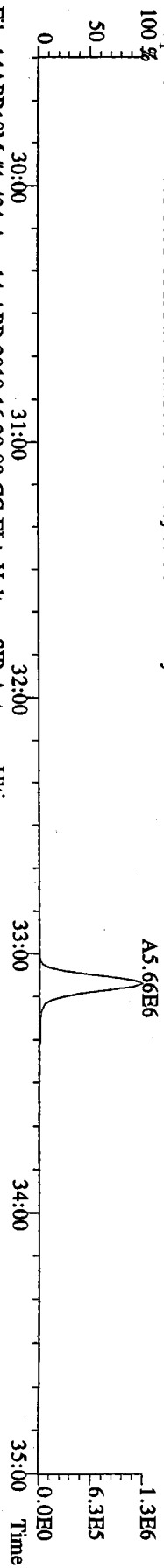
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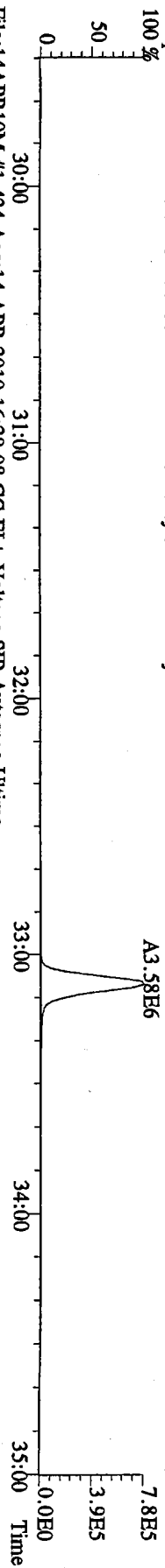
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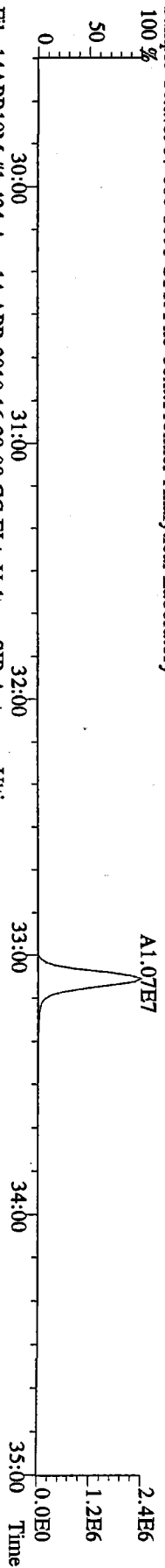
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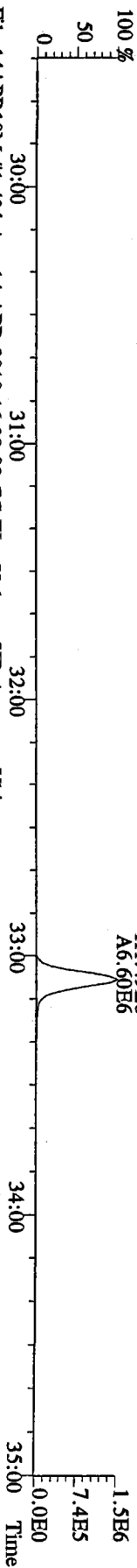
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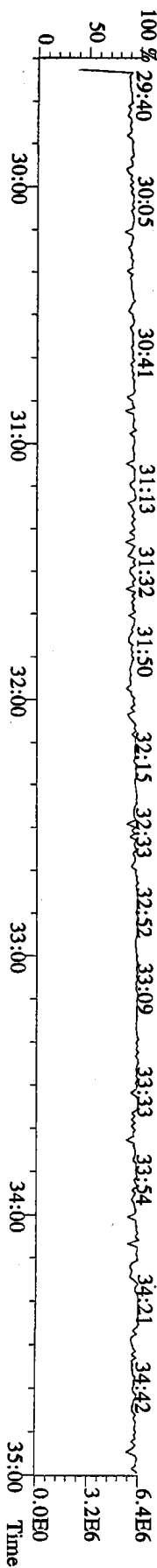
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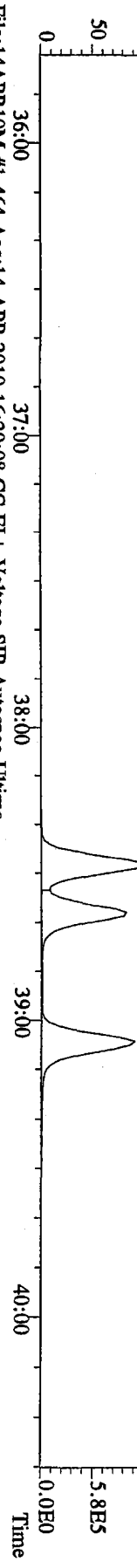
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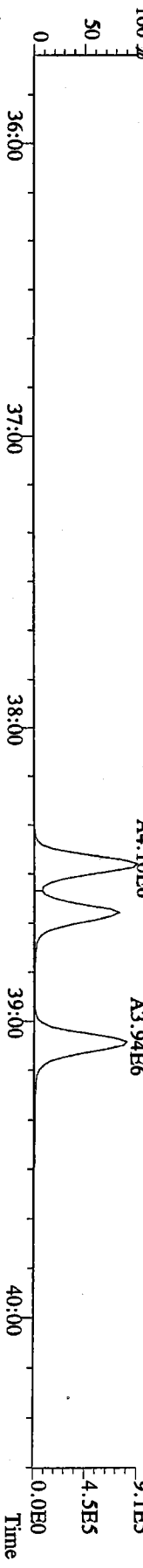
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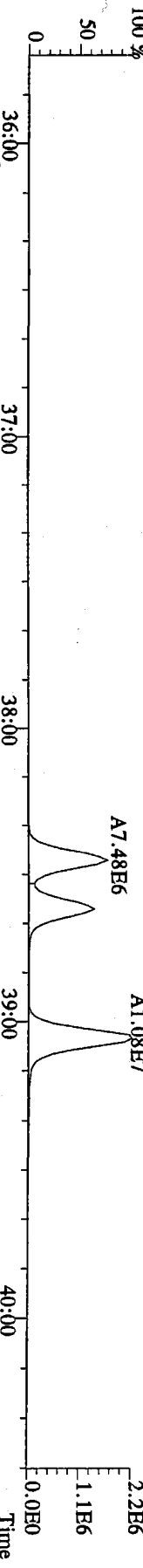
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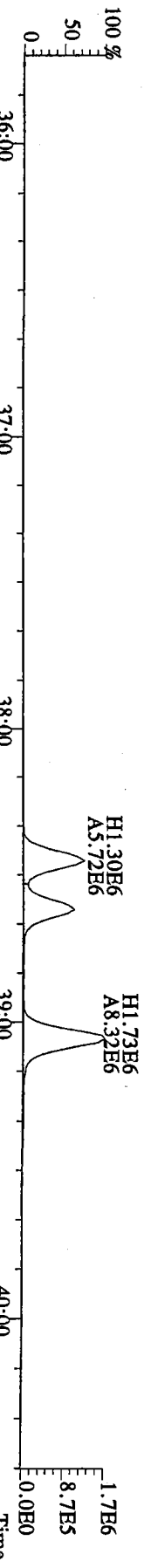
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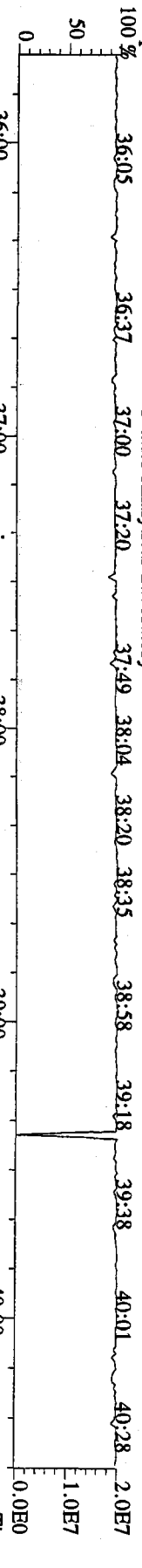
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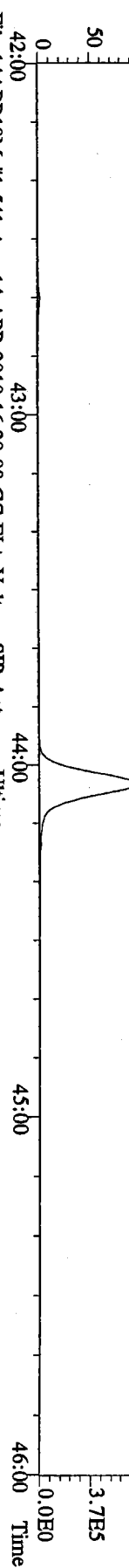
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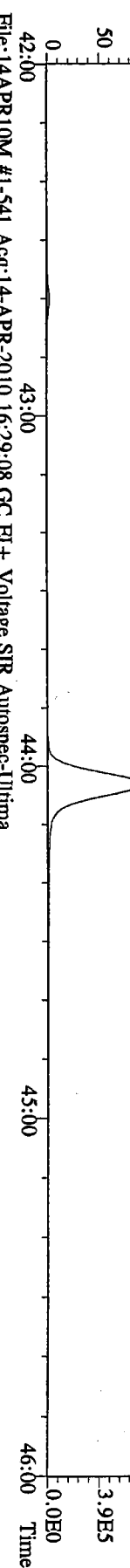
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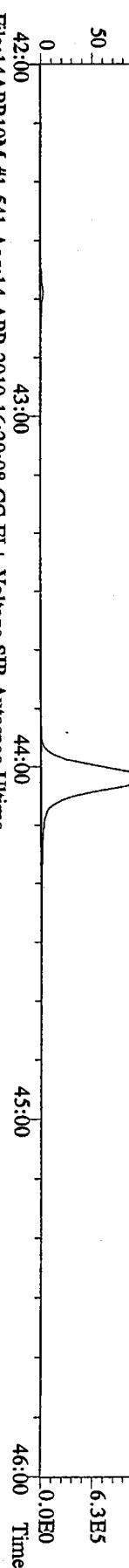
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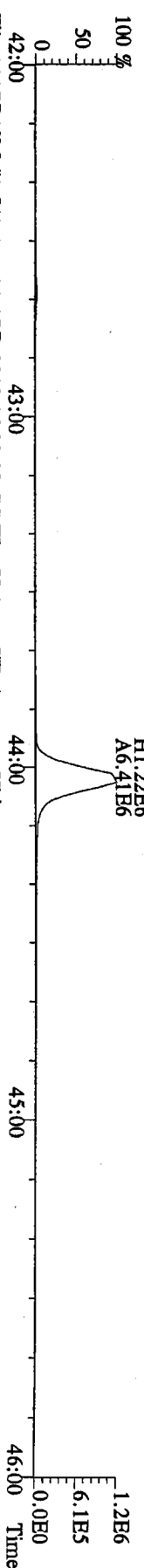
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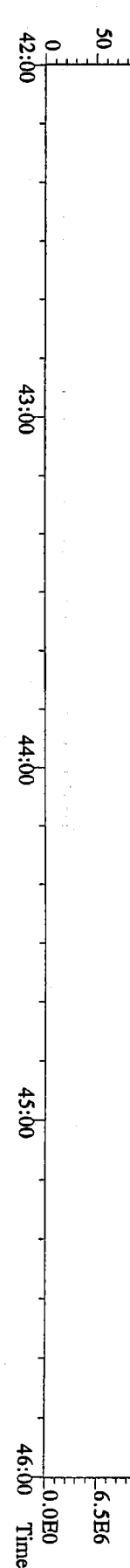
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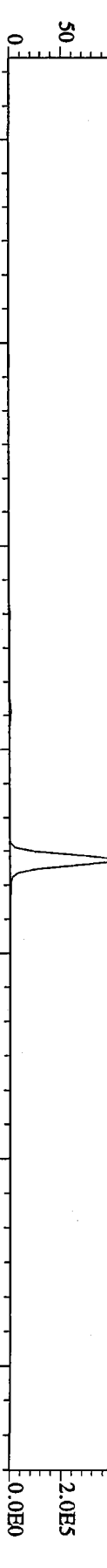
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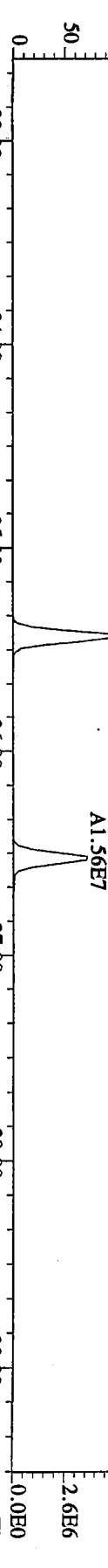
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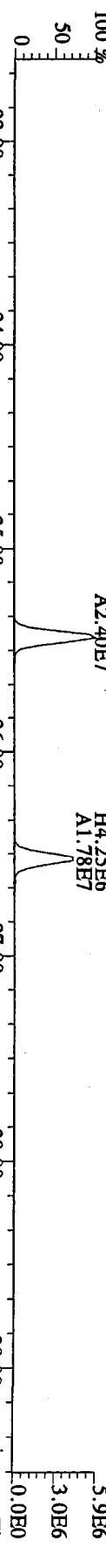
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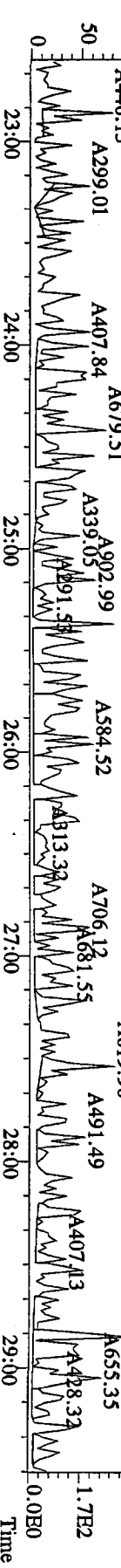
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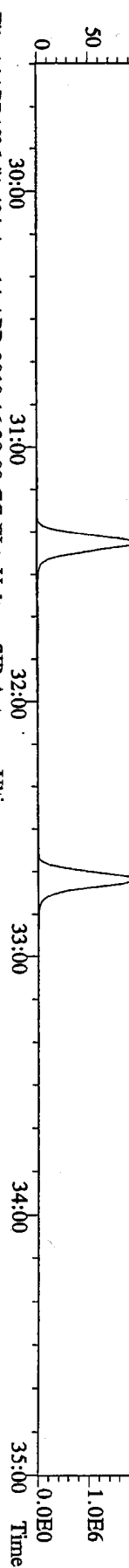
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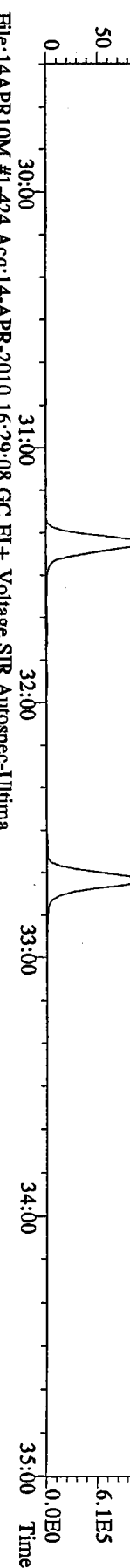
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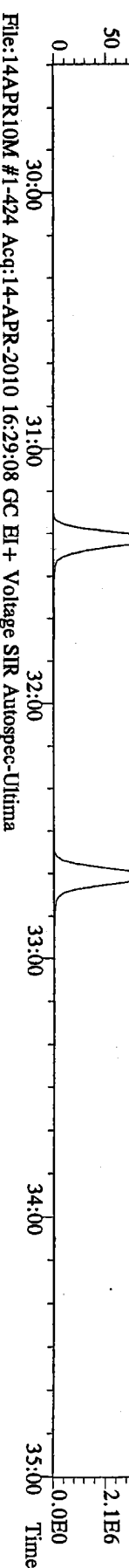
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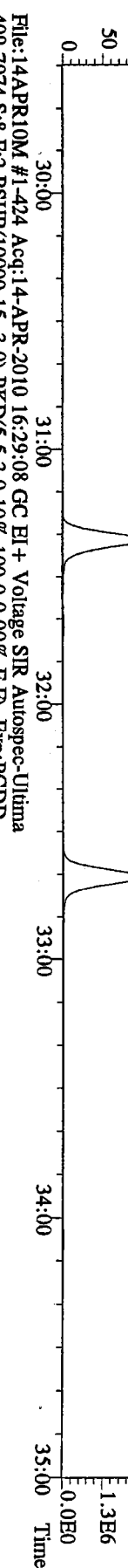
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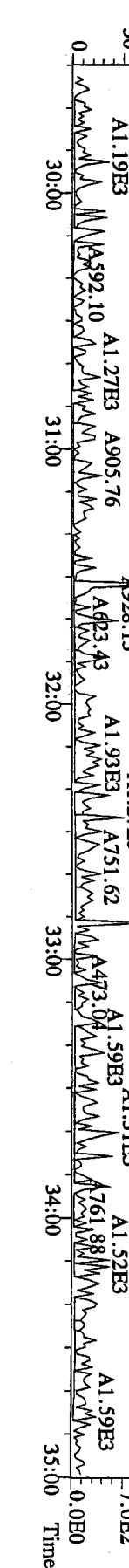
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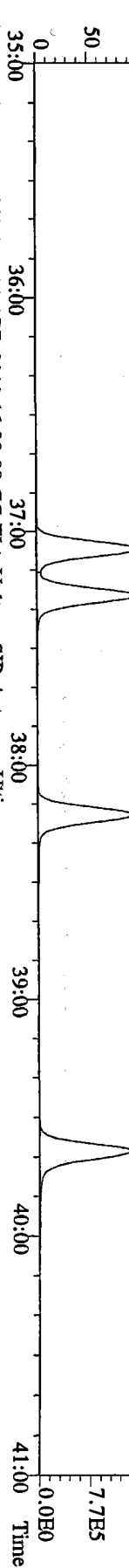
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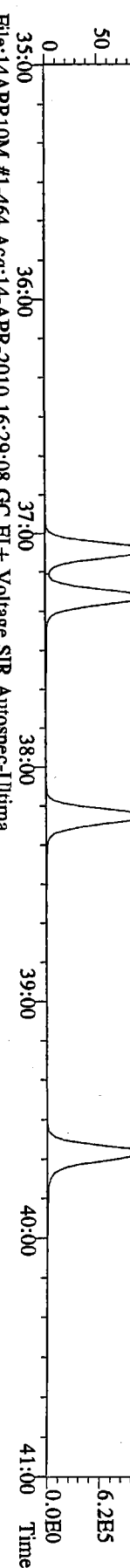
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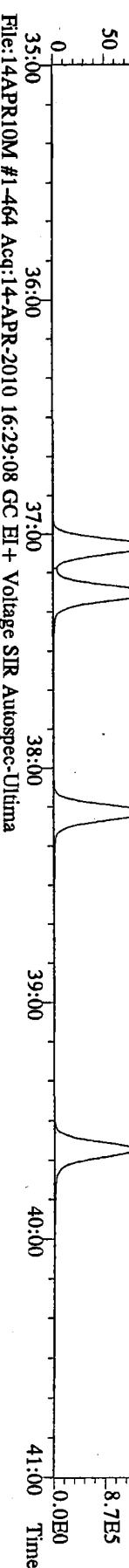
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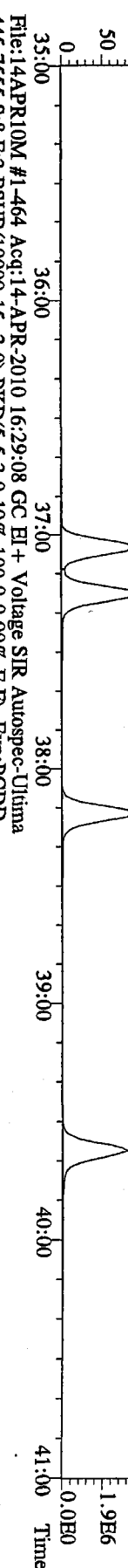
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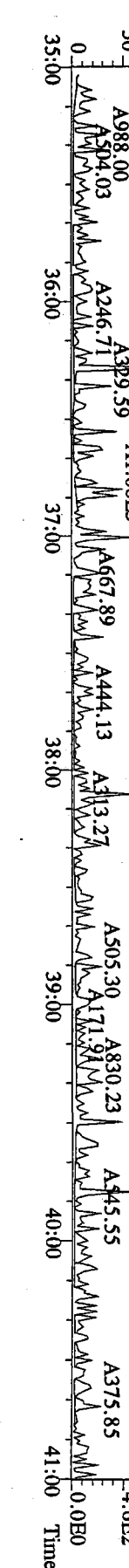
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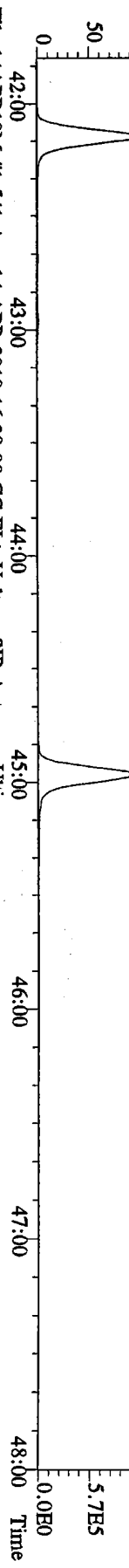
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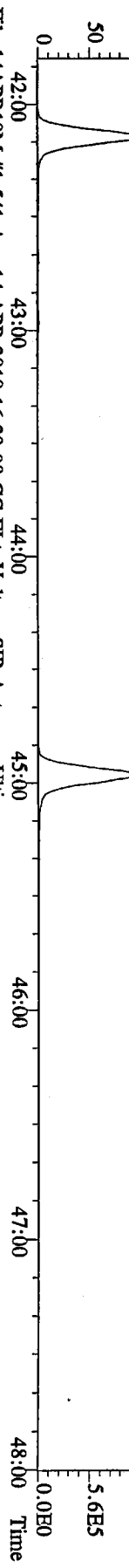
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 445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



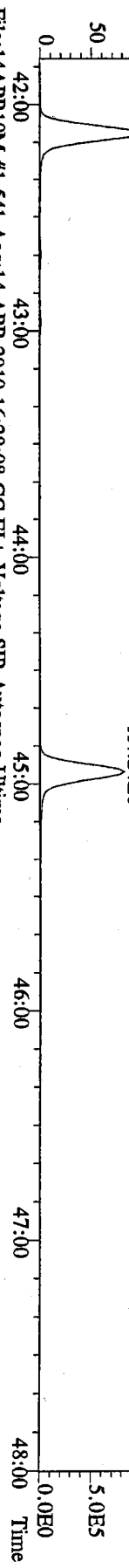
File:14APR10M #1-541 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Utima
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 % A5.38E6



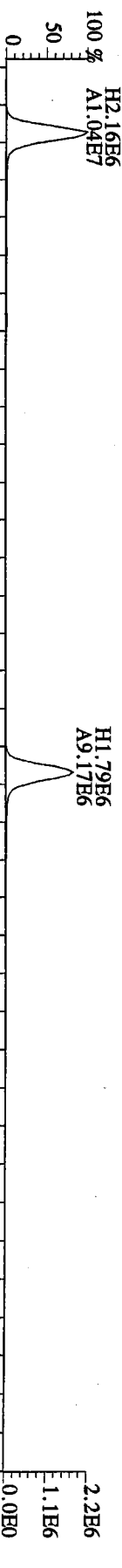
File:14APR10M #1-541 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Utima
 409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 % A5.24E6



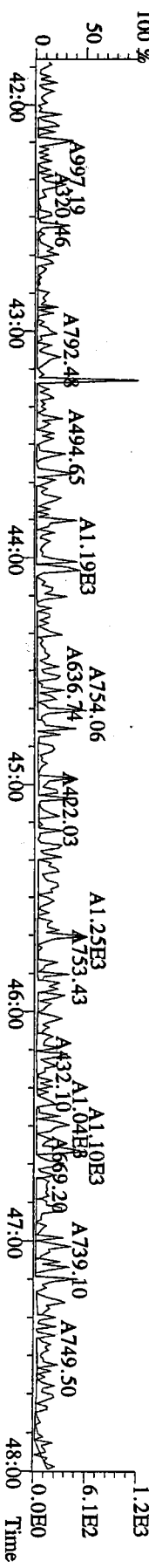
File:14APR10M #1-541 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Utima
 417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 % A4.92E6



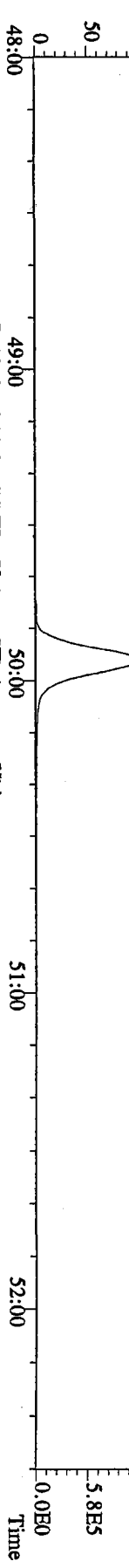
File:14APR10M #1-541 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Utima
 419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



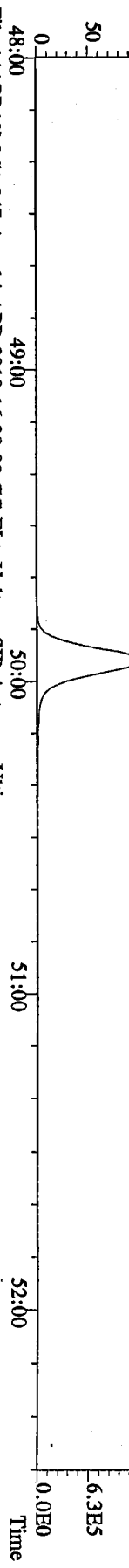
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 479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



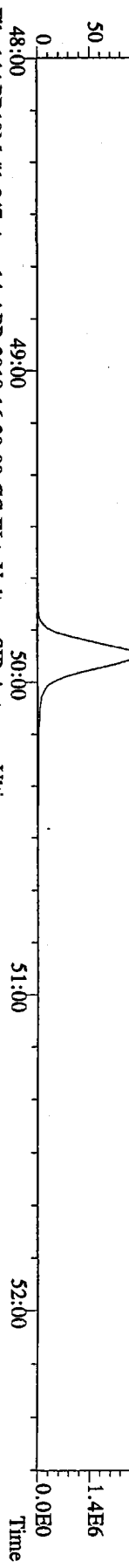
File:14APR10M #1-347 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



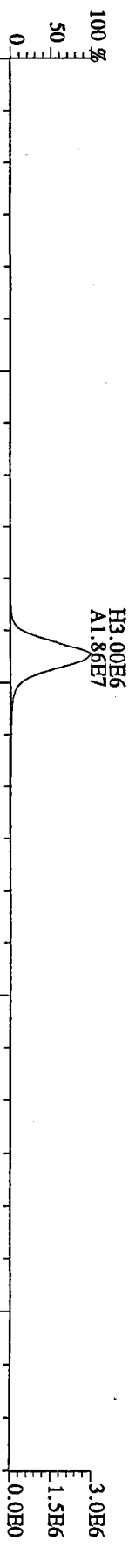
File:14APR10M #1-347 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



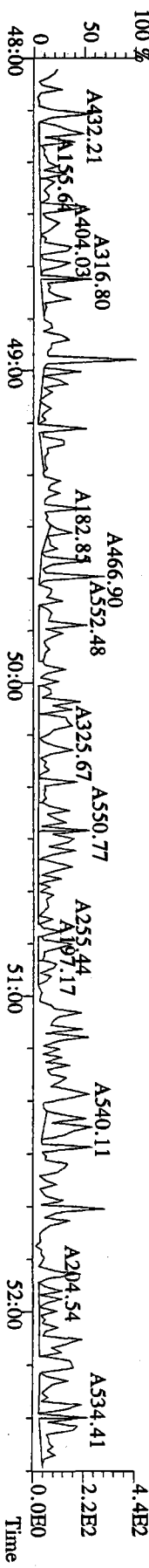
File:14APR10M #1-347 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory





File:14APR10M #1-347 Acq:14-APR-2010 16:29:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1987-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 6076-001-0001-SA Filename: 14APR10M Sam:13 Acquired: 14-APR-10 21:05:47 ICal: PCDDFAL3-4-14-10
 Client ID: CB31A032910COMP ConCal: ST041410M3 EndCal: ST041410M6
 Results: 6076 GC Column: DB5 Amount: 1.041 NATO 1989 Tox: 37.1 WHO 1998 Tox: 28.7 WHO 2005 Tox: 30.5

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | #Hom | |
|--------------------------|----------|--------|--------|------|-------|------|-------------|---------|------|-------|---------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 513 | 664 | 1.09 | |
| 1,2,3,7,8-PeCDD | 4.61e+04 | 1.46 y | 33:06 | 1.07 | 3.70 | J | 2.50 | - | - | * | |
| 1,2,3,4,7,8-HxCDD | 1.22e+05 | 1.27 y | 38:28 | 1.39 | 9.09 | J | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDD | 3.01e+05 | 1.25 y | 38:38 | 1.36 | 26.3 | | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDD | 2.20e+05 | 1.31 y | 39:04 | 1.40 | 17.4 | J | 2.50 | - | - | * | |
| 1,2,3,4,6,7,8-HpCDD | 1.05e+07 | 0.94 y | 44:03 | 1.14 | 897 | | 2.50 | - | - | * | |
| OCDD | 1.01e+08 | 0.91 y | 49:33 | 1.22 | 10800 | | 2.50 | - | - | * | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 550 | 731 | 0.549 | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 1480 | 1120 | 1.54 | |
| 2,3,4,7,8-PeCDF | 3.89e+04 | 1.36 y | 32:41 | 0.93 | 2.23 | J | 2.50 | - | - | * | |
| 1,2,3,4,7,8-HxCDF | 5.65e+05 | 1.24 y | 37:04 | 1.07 | 32.5 | | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDF | 2.83e+05 | 1.19 y | 37:16 | 0.97 | 16.0 | J | 2.50 | - | - | * | |
| 2,3,4,6,7,8-HxCDF | 2.00e+05 | 1.26 y | 38:13 | 1.04 | 11.4 | J | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDF | 5.39e+04 | 1.11 y | 39:42 | 1.15 | 3.06 | J | 2.50 | - | - | * | |
| 1,2,3,4,6,7,8-HpCDF | 3.21e+06 | 1.04 y | 42:08 | 1.37 | 202 | | 2.50 | - | - | * | |
| 1,2,3,4,7,8,9-HpCDF | 2.86e+05 | 0.98 y | 44:57 | 1.62 | 17.9 | J | 2.50 | - | - | * | |
| OCDF | 6.41e+06 | 0.90 y | 49:55 | 0.85 | 578 | | 2.50 | - | - | * | |
| 13C-2,3,7,8-TCDD | 1.87e+07 | 0.72 y | 27:16 | 0.98 | 1770 | | | | | 92.1 | |
| 13C-1,2,3,7,8-PeCDD | 2.24e+07 | 1.62 y | 33:05 | 1.14 | 1820 | | | | | 95.0 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.85e+07 | 1.29 y | 38:26 | 1.00 | 1760 | | | | | 91.5 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.62e+07 | 1.29 y | 38:36 | 0.89 | 1730 | | | | | 90.3 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.98e+07 | 1.04 y | 44:02 | 1.01 | 1860 | | | | | 96.8 | |
| 13C-OCDD | 2.95e+07 | 0.94 y | 49:32 | 0.75 | 3750 | | | | | 97.7 | |
| 13C-2,3,7,8-TCDF | 3.52e+07 | 0.88 y | 26:31 | 0.93 | 1730 | | | | | 90.0 | |
| 13C-1,2,3,7,8-PeCDF | 3.81e+07 | 1.64 y | 31:21 | 0.93 | 1870 | | | | | 97.2 | |
| 13C-2,3,4,7,8-PeCDF | 3.59e+07 | 1.65 y | 32:40 | 0.87 | 1870 | | | | | 97.1 | |
| 13C-1,2,3,4,7,8-HxCDF | 3.13e+07 | 0.48 y | 37:02 | 1.82 | 1640 | | | | | 85.3 | |
| 13C-1,2,3,6,7,8-HxCDF | 3.50e+07 | 0.47 y | 37:15 | 2.01 | 1660 | | | | | 86.6 | |
| 13C-2,3,4,6,7,8-HxCDF | 3.23e+07 | 0.47 y | 38:11 | 1.77 | 1740 | | | | | 90.3 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.95e+07 | 0.46 y | 39:36 | 1.57 | 1800 | | | | | 93.5 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 2.24e+07 | 0.46 y | 42:07 | 1.24 | 1720 | | | | | 89.4 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.90e+07 | 0.47 y | 44:57 | 0.99 | 1830 | | | | | 95.2 | |
| 13C-OCDF | 5.02e+07 | 0.92 y | 49:54 | 1.32 | 3640 | | | | | 94.8 | |
| 37Cl-2,3,7,8-TCDD | 9.07e+06 | | 27:17 | 1.10 | 763 | | | | | 99.3 | |
| 13C-1,2,3,4-TCDD | 2.07e+07 | 0.73 y | 26:40 | - | 114 | | | | | | |
| 13C-1,2,3,4-TCDF | 4.23e+07 | 0.88 y | 25:25 | - | 110 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 2.01e+07 | 1.30 y | 39:02 | - | 118 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.12 | * | | 2.50 | 513 | 664 | 1.09 | 0 |
| Total Penta-Dioxins | 1.53e+05 | | 30:06 | 1.07 | 12.3 | J | 2.50 | - | - | * | 5 |
| Total Hexa-Dioxins | 1.66e+06 | | 36:00 | 1.38 | 134 | | 2.50 | - | - | * | 8 |
| Total Hepta-Dioxins | 1.75e+07 | | 42:39 | 1.14 | 1500 | | 2.50 | - | - | * | 2 |
| Total Tetra-Furans | 8.02e+05 | | 23:41 | 1.29 | 34.0 | D,M | 2.50 | - | - | * | 4 |
| 1st Fn. Tot Penta-Furans | 2.16e+05 | | 28:19 | 0.93 | 12.1 | D,M | 2.50 | - | - | * | PeCDF 1 |
| Total Penta-Furans | 1.48e+06 | | 30:06 | 0.93 | 82.7 | D,M | 2.50 | - | - | * | 94.8 6 |
| Total Hexa-Furans | 7.75e+06 | | 35:07 | 1.05 | 442 | D,M | 2.50 | - | - | * | 13 |
| Total Hepta-Furans | 1.05e+07 | | 42:08 | 1.48 | 656 | | 2.50 | - | - | * | 4 |

Analyst:  Date: 

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 14

File: 14APR10M

S: 13 I: 1 F: 2

Acquired: 14-APR-10 21:05:47

Total Concentration: 12.3

Unnamed Concentration: 8.618

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:06 | 2.07e+04 | 1.42e+04 | 1.46 y | 3.48e+04 | 2.80 | |
| 31:21 | 1.29e+04 | 8.09e+03 | 1.60 y | 2.10e+04 | 1.69 | |
| 31:35 | 1.96e+04 | 1.36e+04 | 1.44 y | 3.32e+04 | 2.67 | |
| 31:43 | 1.14e+04 | 6.85e+03 | 1.66 y | 1.83e+04 | 1.47 | |
| 33:06 | 2.74e+04 | 1.87e+04 | 1.46 y | 4.61e+04 | 3.70 | 1,2,3,7,8-PeCDD |

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 14

File: 14APR10M

S: 13 I: 1 F: 3

Acquired: 14-APR-10 21:05:47

Total Concentration: 134

Unnamed Concentration: 81.539

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 36:00 | 1.54e+05 | 1.13e+05 | 1.37 y | 2.67e+05 | 21.3 | |
| 36:56 | 4.88e+04 | 3.47e+04 | 1.41 y | 8.36e+04 | 6.68 | |
| 37:22 | 3.48e+05 | 2.68e+05 | 1.30 y | 6.17e+05 | 49.3 | |
| 37:32 | 1.13e+04 | 1.03e+04 | 1.09 y | 2.16e+04 | 1.73 | |
| 38:28 | 6.82e+04 | 5.39e+04 | 1.27 y | 1.22e+05 | 9.09 | 1,2,3,4,7,8-HxCDD |
| 38:38 | 1.67e+05 | 1.33e+05 | 1.25 y | 3.01e+05 | 26.3 | 1,2,3,6,7,8-HxCDD |
| 38:55 | 1.83e+04 | 1.33e+04 | 1.37 y | 3.16e+04 | 2.53 | |
| 39:04 | 1.25e+05 | 9.53e+04 | 1.31 y | 2.20e+05 | 17.4 | 1,2,3,7,8,9-HxCDD |

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14

File: 14APR10M

S: 13 I: 1 F: 4

Acquired: 14-APR-10 21:05:47

Total Concentration: 1500

Unnamed Concentration: 602.162

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:39 | 3.37e+06 | 3.66e+06 | 0.92 y | 7.04e+06 | 602 | |
| 44:03 | 5.08e+06 | 5.41e+06 | 0.94 y | 1.05e+07 | 897 | 1,2,3,4,6,7,8-HpCDD |

Totals class: Total Tetra-Furans

Entry #: 42

Run: 14

File: 14APR10M

S: 13 I: 1 F: 1

Acquired: 14-APR-10 21:05:47

Total Concentration: 34.0

Unnamed Concentration: 34.008

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 23:41 | 1.40e+04 | 2.06e+04 | 0.68 y | 3.46e+04 | 1.47 | |
| 25:42 | 3.91e+04 | 5.81e+04 | 0.67 y | 9.72e+04 | 4.12 | |
| 27:46 | 1.75e+05 | 2.66e+05 | 0.66 y | 4.41e+05 | 18.7 | |
| 27:59 | 9.15e+04 | 1.38e+05 | 0.66 y | 2.29e+05 | 9.72 | |

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

Run: 14 File: 14APR10M S: 13 I: 1 F: 1
Acquired: 14-APR-10 21:05:47

Total Concentration: 12.1 Unnamed Concentration: 12.101

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 28:19 | 1.33e+05 | 8.36e+04 | 1.59 y | 2.16e+05 | 12.1 | |

Totals class: Total Penta-Furans

Entry #: 44

Run: 14

File: 14APR10M

S: 13 I: 1 F: 2

Acquired: 14-APR-10 21:05:47

Total Concentration: 82.7

Unnamed Concentration: 80.510

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:06 | 1.39e+05 | 8.38e+04 | 1.66 y | 2.23e+05 | 12.5 | |
| 31:40 | 4.56e+05 | 2.77e+05 | 1.65 y | 7.33e+05 | 41.0 | |
| 31:59 | 1.62e+05 | 1.00e+05 | 1.62 y | 2.63e+05 | 14.7 | |
| 32:41 | 2.24e+04 | 1.65e+04 | 1.36 y | 3.89e+04 | 2.23 | 2,3,4,7,8-PeCDF |
| 32:44 | 2.29e+04 | 1.50e+04 | 1.53 y | 3.79e+04 | 2.12 | |
| 34:02 | 1.13e+05 | 6.99e+04 | 1.62 y | 1.83e+05 | 10.2 | |

Totals class: Total Hexa-Furans

Entry #: 45

Run: 14

File: 14APR10M

S: 13 I: 1 F: 3

Acquired: 14-APR-10 21:05:47

Total Concentration: 442

Unnamed Concentration: 379.244

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 35:07 | 1.82e+05 | 1.55e+05 | 1.18 y | 3.38e+05 | 19.3 | |
| 35:23 | 7.41e+05 | 6.26e+05 | 1.18 y | 1.37e+06 | 78.0 | |
| 36:00 | 1.62e+04 | 1.43e+04 | 1.13 y | 3.06e+04 | 1.74 | |
| 36:17 | 1.12e+06 | 9.01e+05 | 1.24 y | 2.02e+06 | 115 | |
| 36:37 | 6.76e+04 | 5.50e+04 | 1.23 y | 1.23e+05 | 7.00 | |
| 36:55 | 1.52e+04 | 1.27e+04 | 1.19 y | 2.79e+04 | 1.59 | |
| 37:04 | 3.13e+05 | 2.52e+05 | 1.24 y | 5.65e+05 | 32.5 | 1,2,3,4,7,8-HxCDF |
| 37:16 | 1.54e+05 | 1.29e+05 | 1.19 y | 2.83e+05 | 16.0 | 1,2,3,6,7,8-HxCDF |
| 37:33 | 1.29e+04 | 1.16e+04 | 1.11 y | 2.46e+04 | 1.40 | |
| 38:00 | 1.48e+06 | 1.21e+06 | 1.22 y | 2.70e+06 | 154 | |
| 38:13 | 1.12e+05 | 8.84e+04 | 1.26 y | 2.00e+05 | 11.4 | 2,3,4,6,7,8-HxCDF |
| 38:38 | 1.13e+04 | 8.79e+03 | 1.28 y | 2.01e+04 | 1.15 | |
| 39:42 | 2.84e+04 | 2.56e+04 | 1.11 y | 5.39e+04 | 3.06 | 1,2,3,7,8,9-HxCDF |

Totals class: Total Hepta-Furans

Entry #: 46

Run: 14

File: 14APR10M

S: 13 I: 1 F: 4

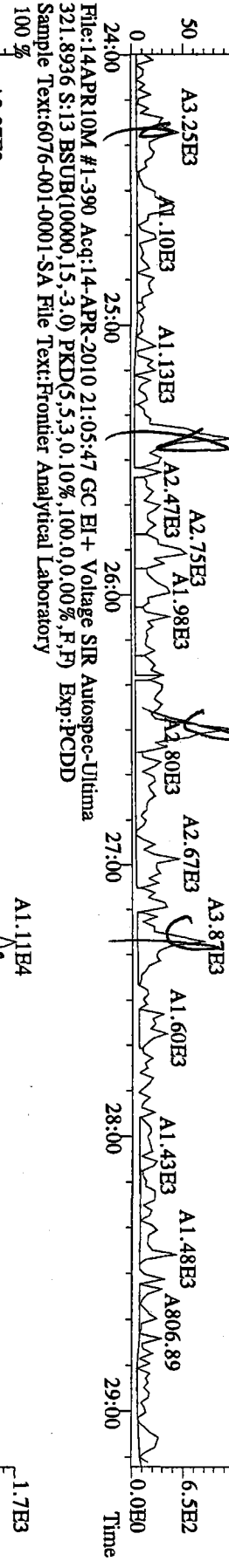
Acquired: 14-APR-10 21:05:47

Total Concentration: 656

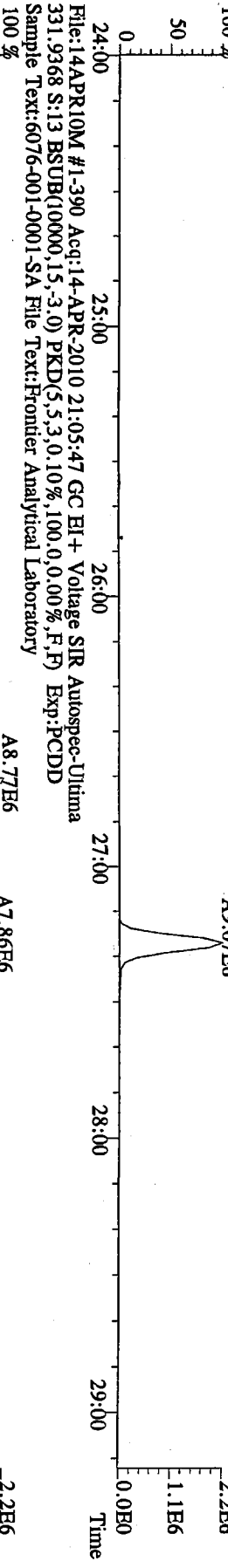
Unnamed Concentration: 436.700

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:08 | 1.64e+06 | 1.57e+06 | 1.04 y | 3.21e+06 | 202 | 1,2,3,4,6,7,8-HpCDF |
| 42:41 | 3.65e+04 | 3.66e+04 | 1.00 y | 7.31e+04 | 4.59 | |
| 42:57 | 3.49e+06 | 3.39e+06 | 1.03 y | 6.88e+06 | 432 | |
| 44:57 | 1.42e+05 | 1.45e+05 | 0.98 y | 2.86e+05 | 17.9 | 1,2,3,4,7,8,9-HpCDF |

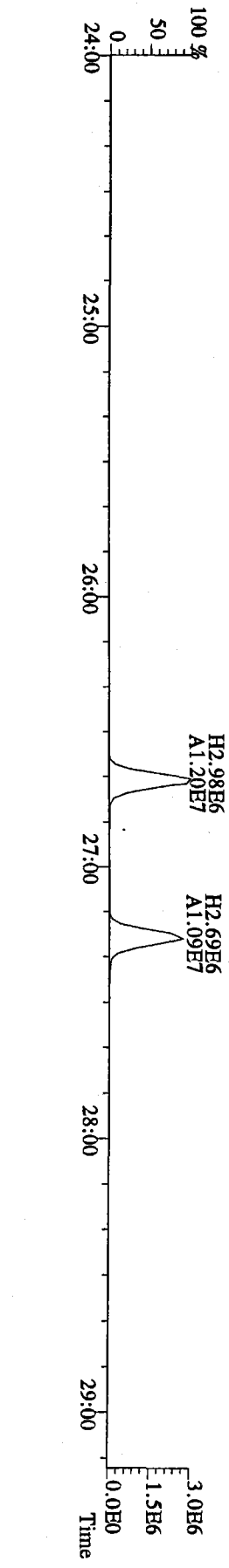
File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



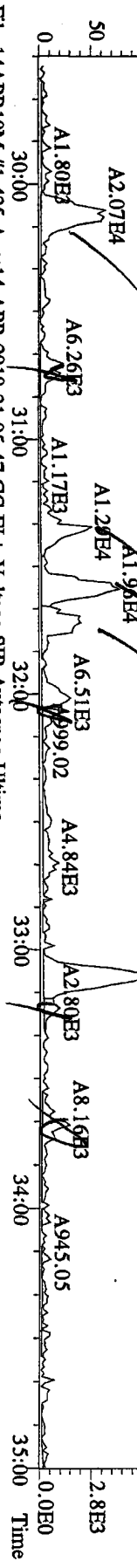
File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



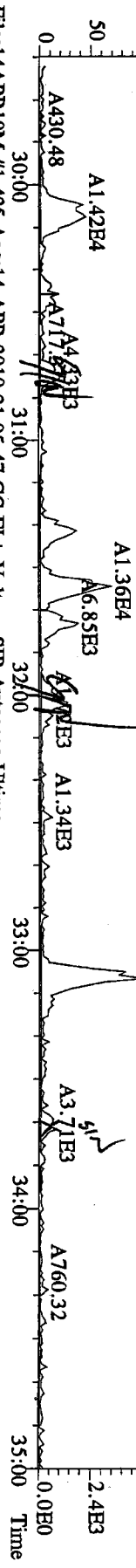
File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



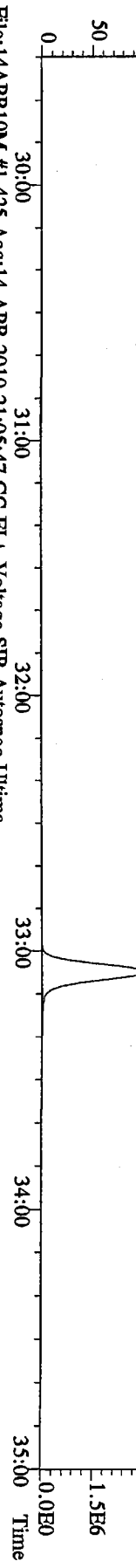
File:14APR10M #1-425 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:13 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



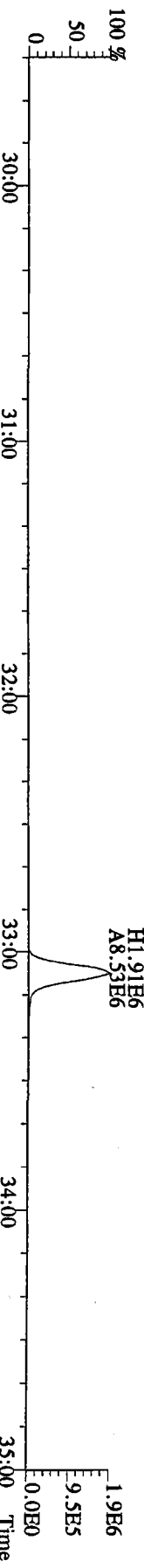
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 357.8517 S:13 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



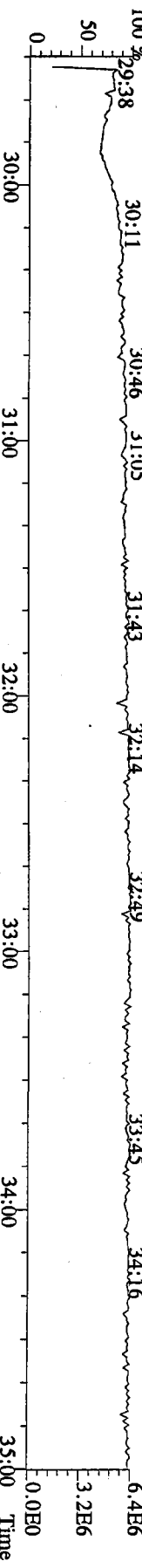
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 367.8949 S:13 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



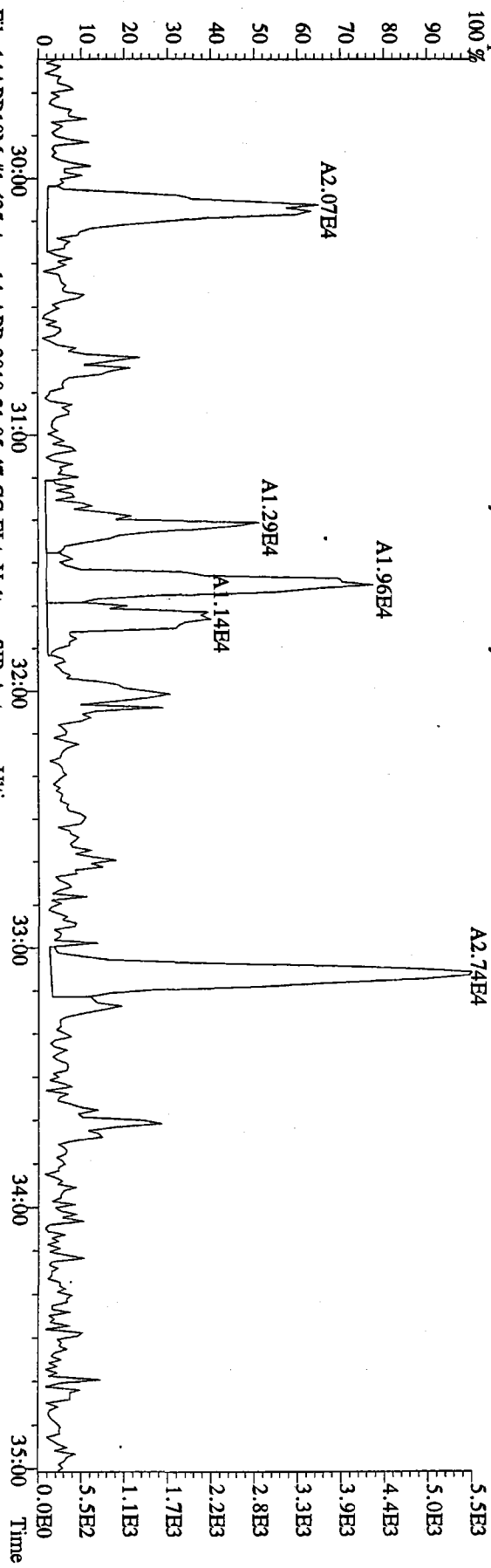
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 369.8919 S:13 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



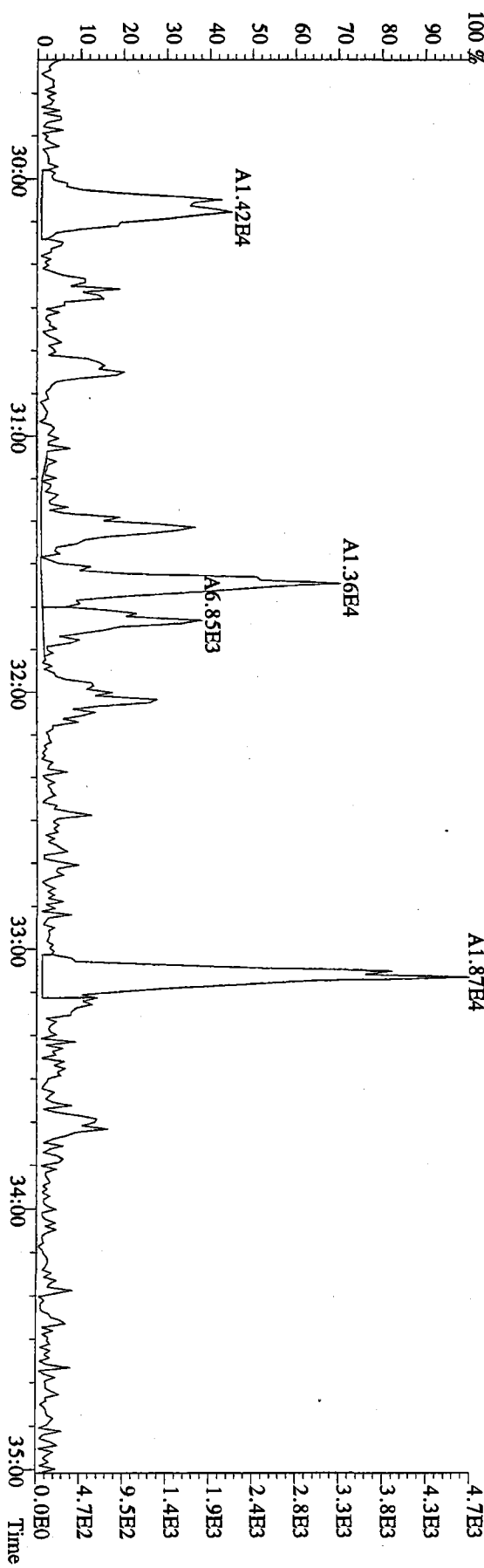
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 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



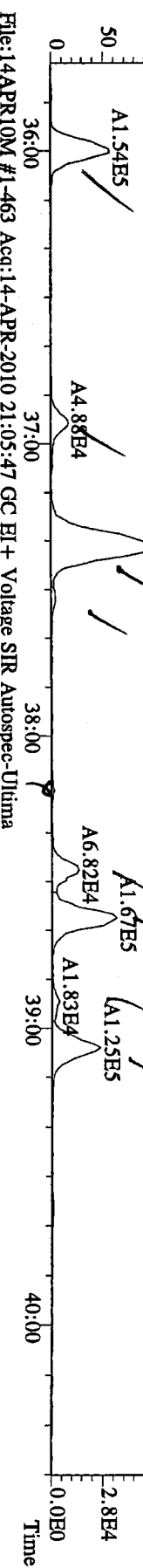
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 355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Fronder Analytical Laboratory



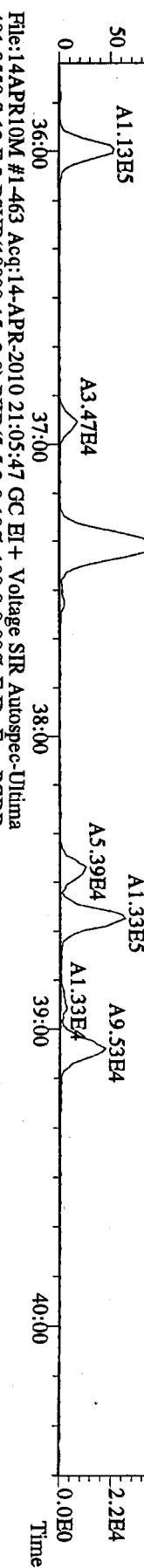
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 Sample Text:6076-001-0001-SA File Text:Fronder Analytical Laboratory



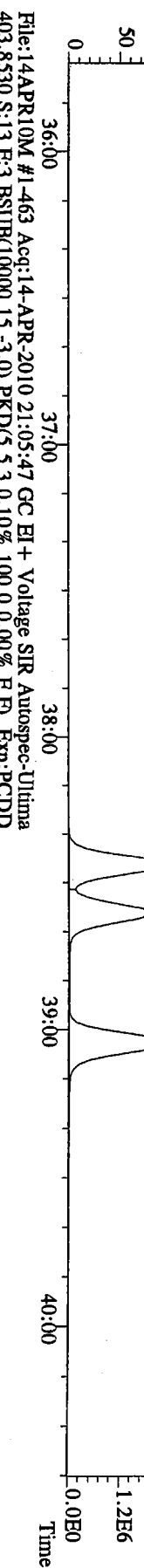
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 389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-463 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Utima
 391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



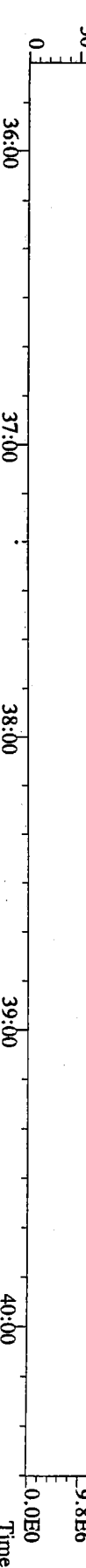
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 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



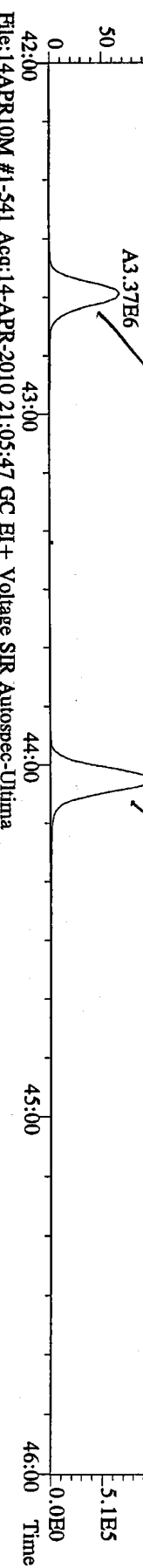
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 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



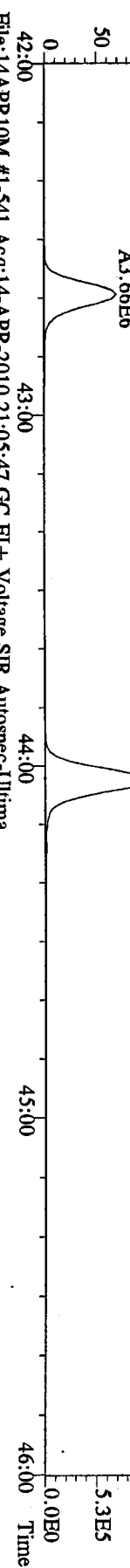
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 380.9760 S:13 F:3 Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



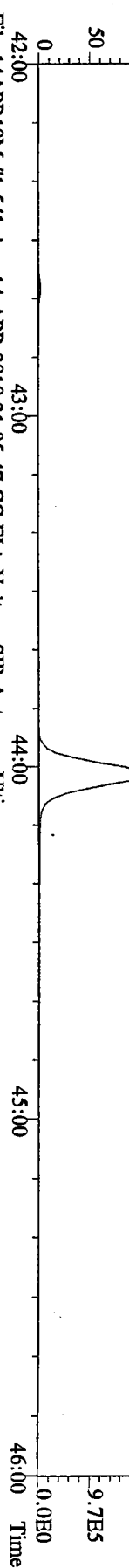
File:14APR10M #1-541 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



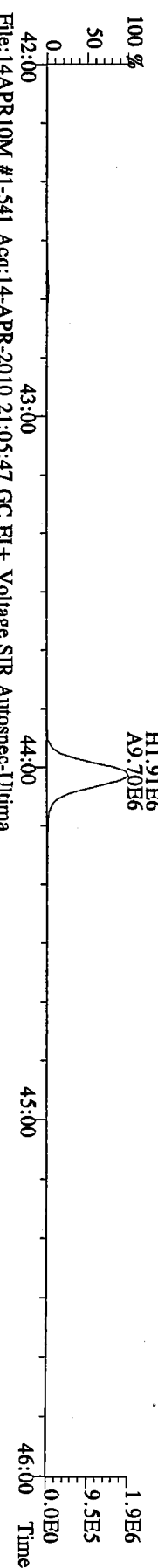
File:14APR10M #1-541 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



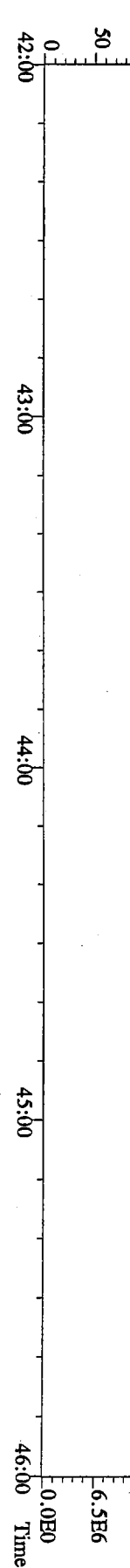
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 435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



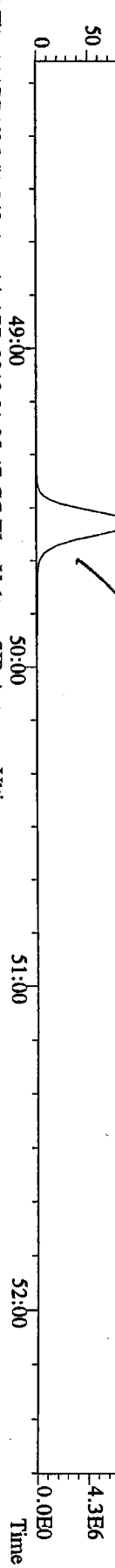
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 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



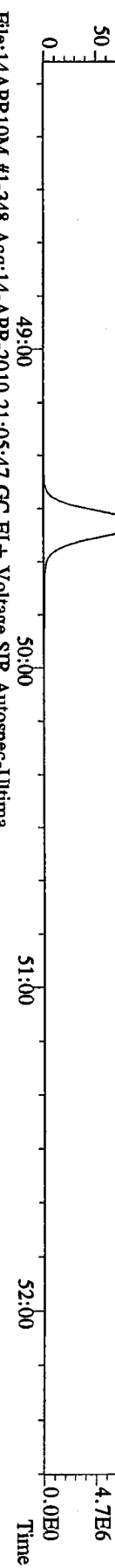
File:14APR10M #1-541 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 S:13 F:4 Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



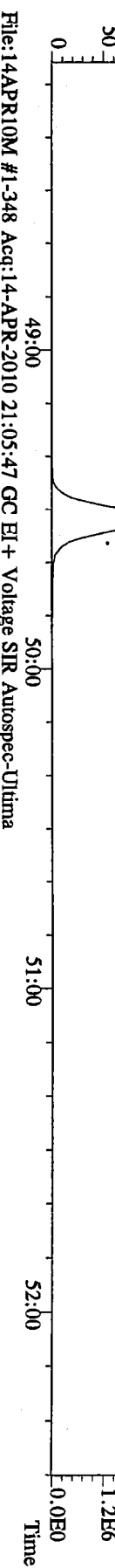
File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



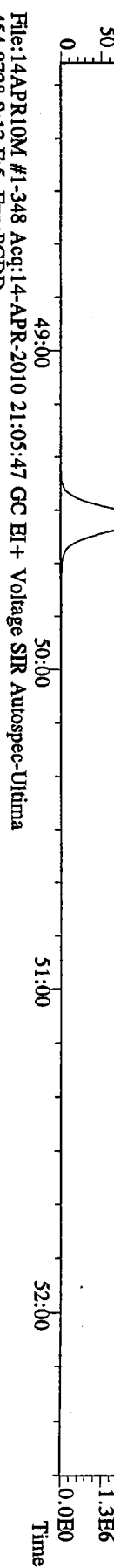
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 459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



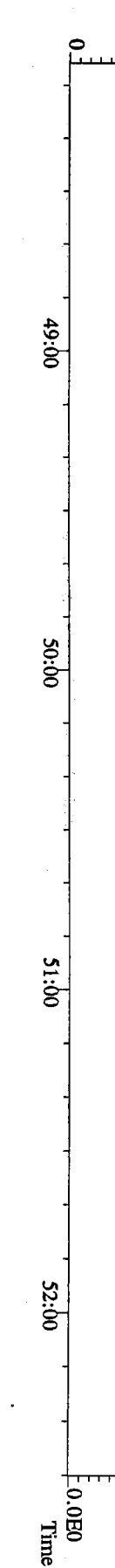
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 469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 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:6076-001-0001-SA File Text:Frontier Analytical Laboratory

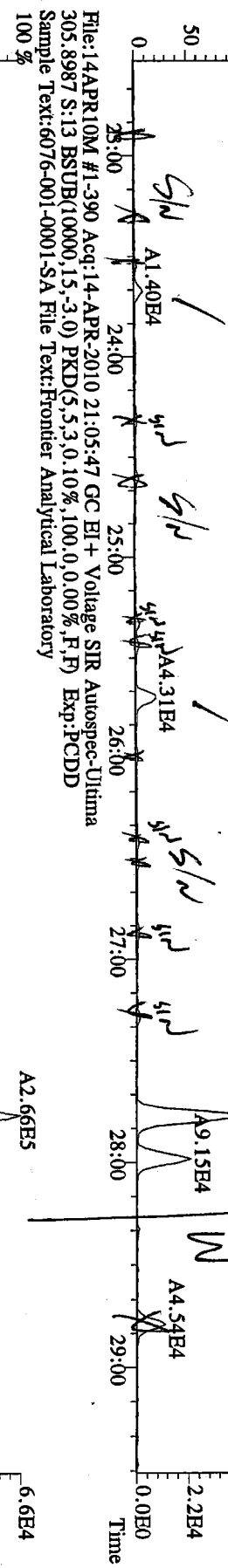


File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:13 F:5 Exp:PCDD
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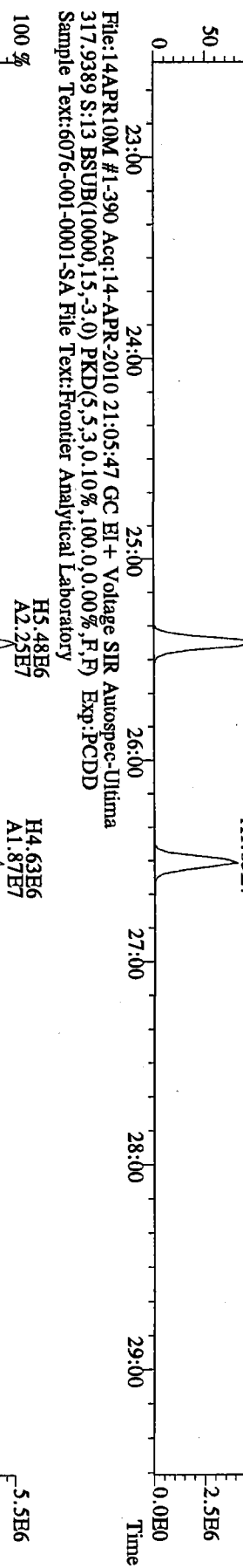


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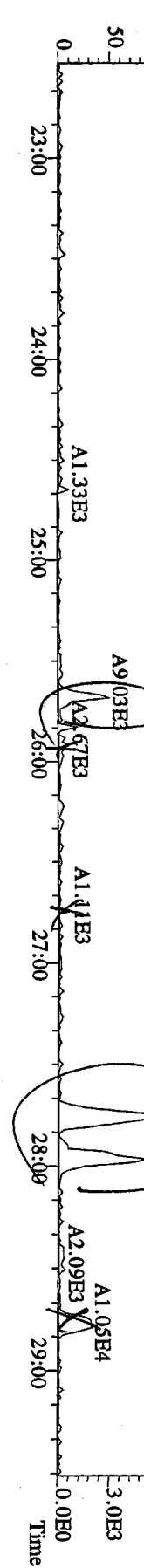
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 303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



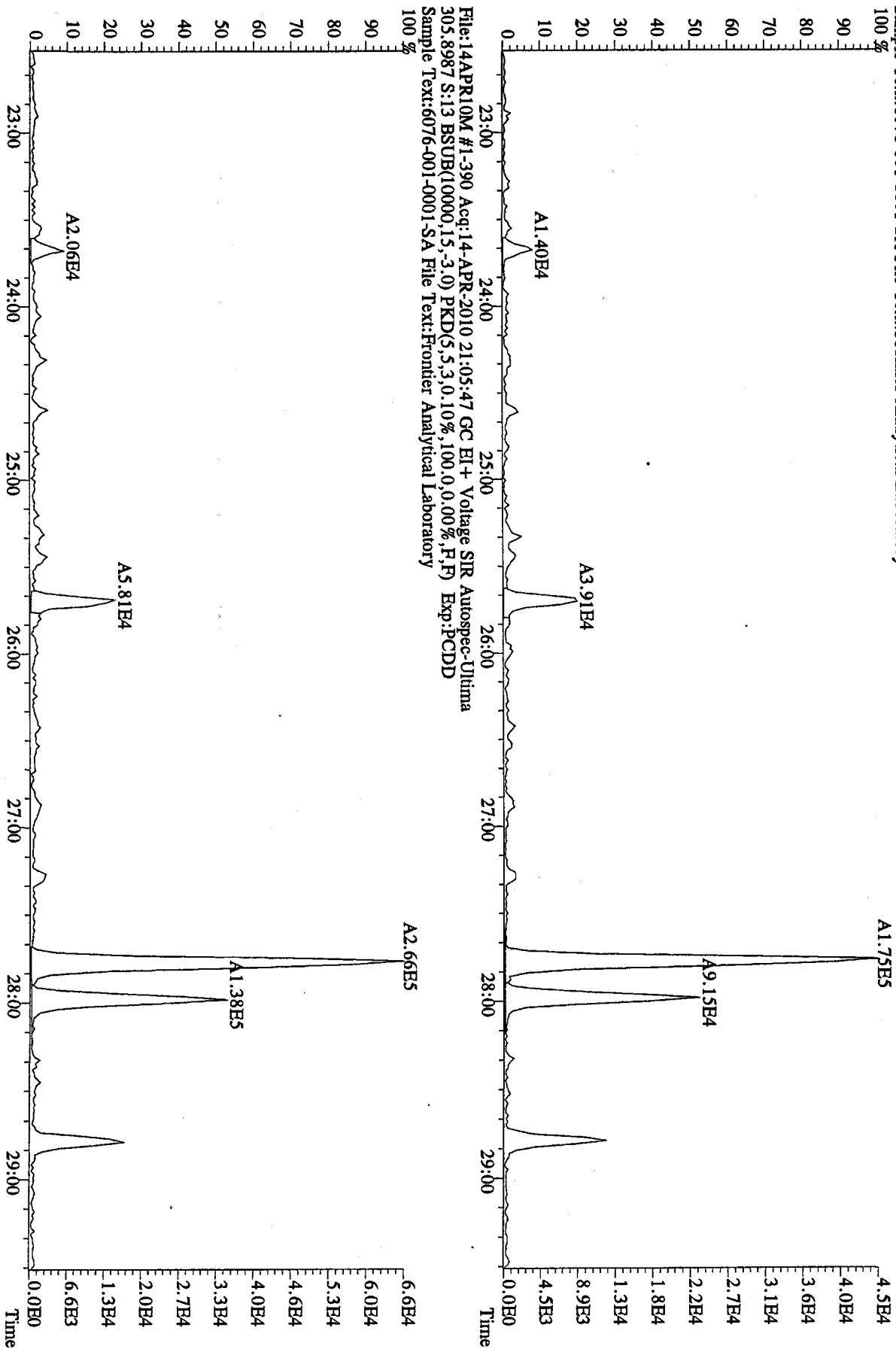
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 315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory

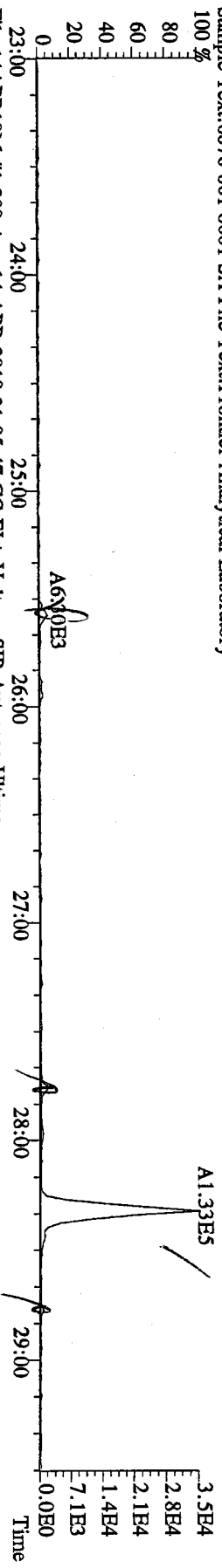


File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory

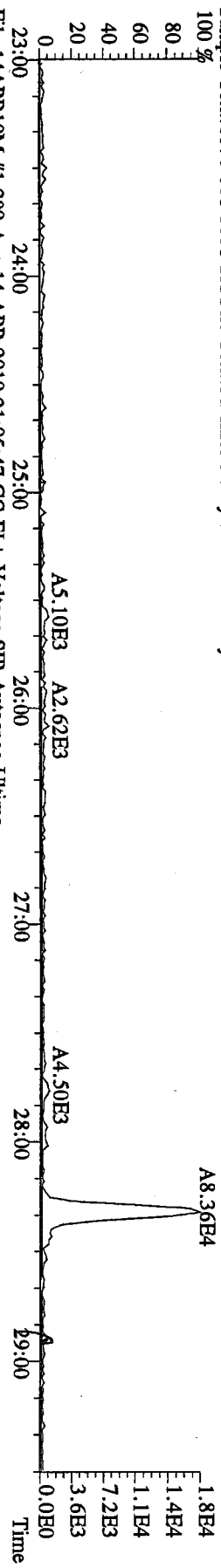


File:14APR10M #1-390 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory

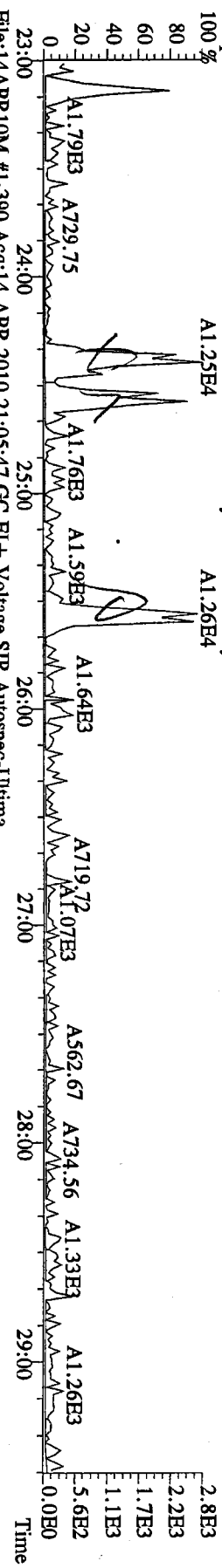
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 339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



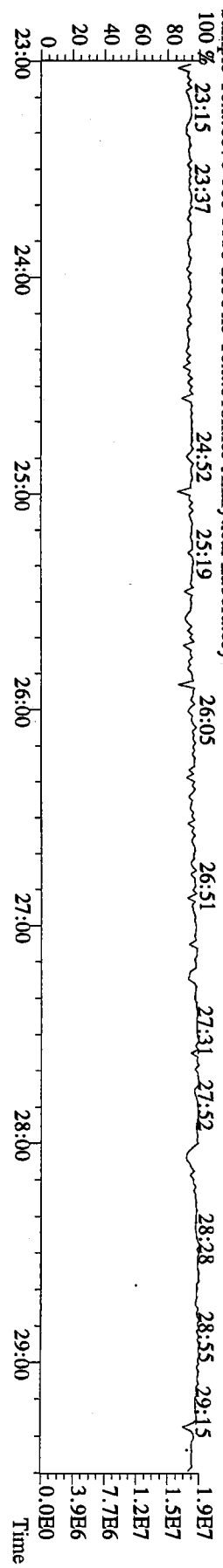
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 341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



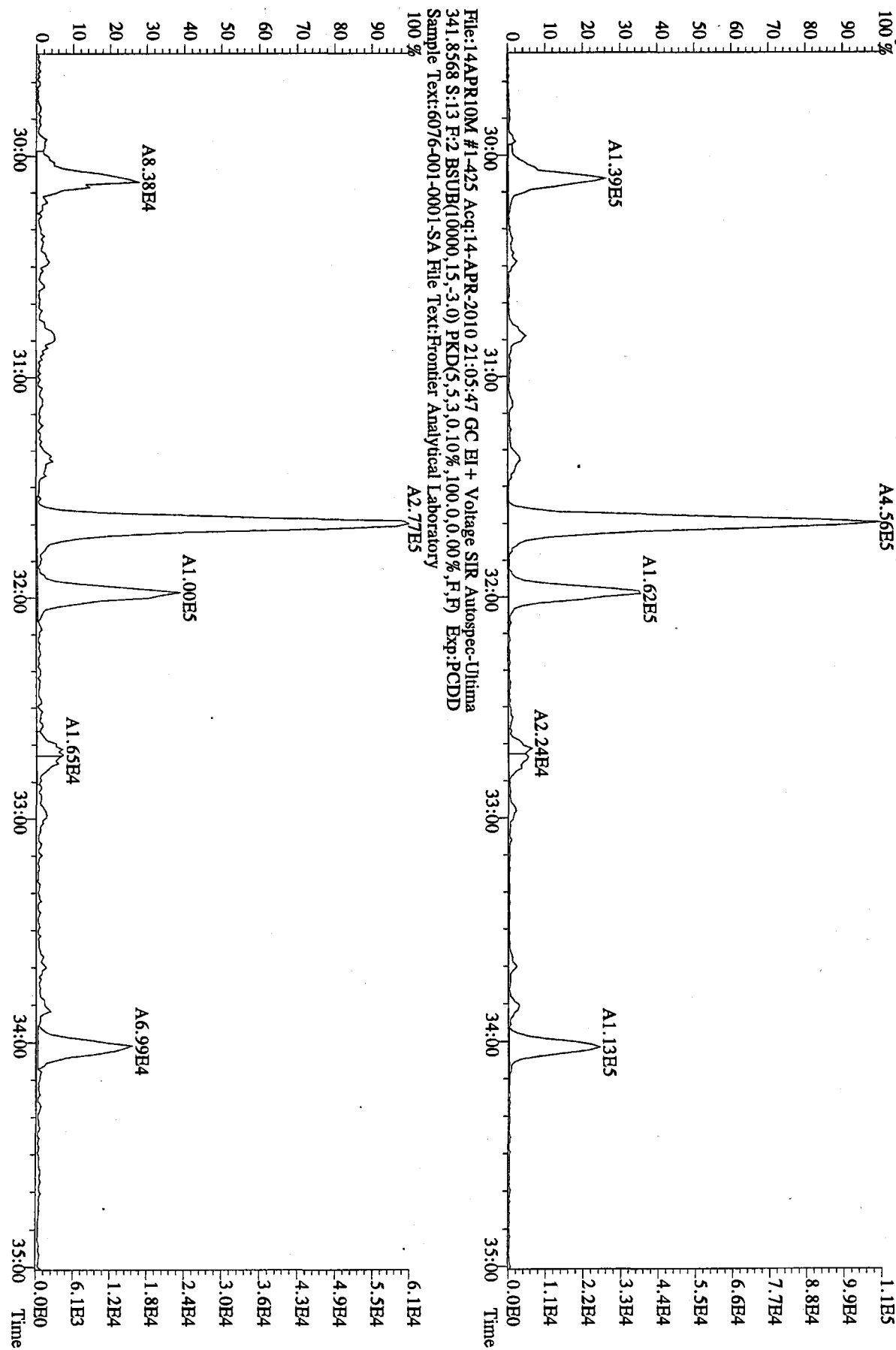
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 409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



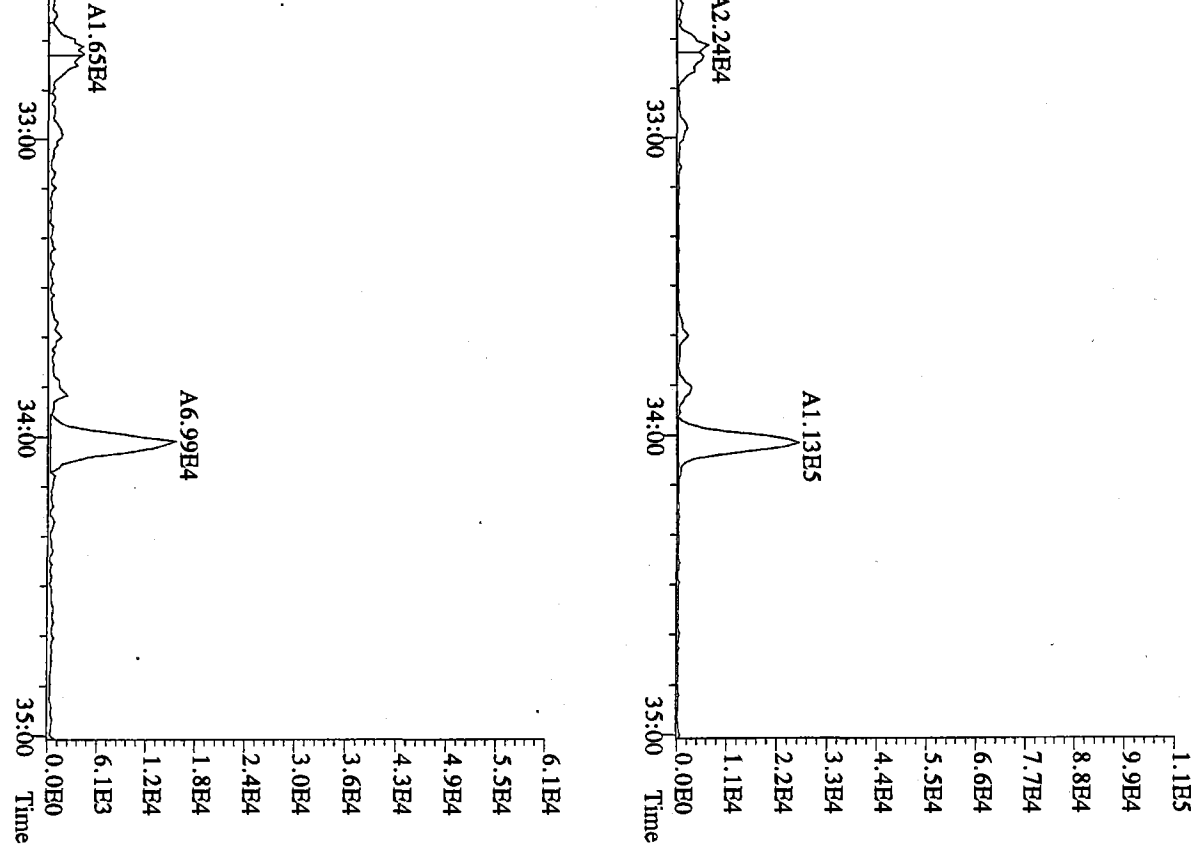
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 330.9792 S:13 Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



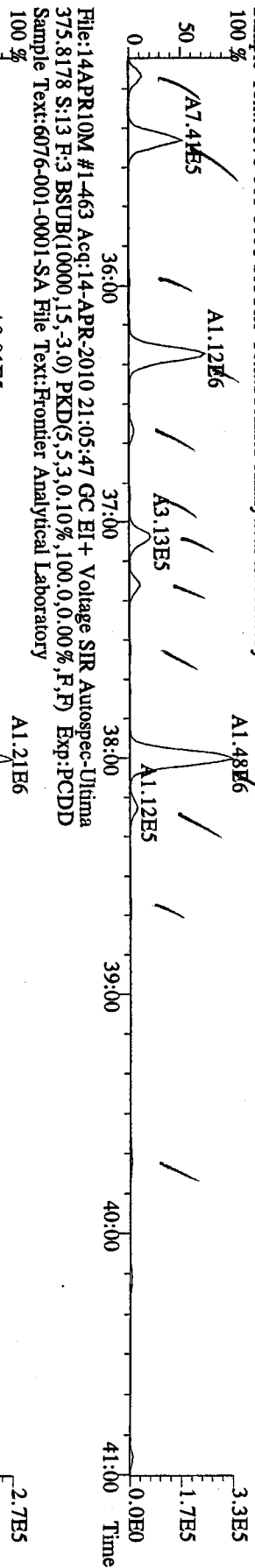
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 339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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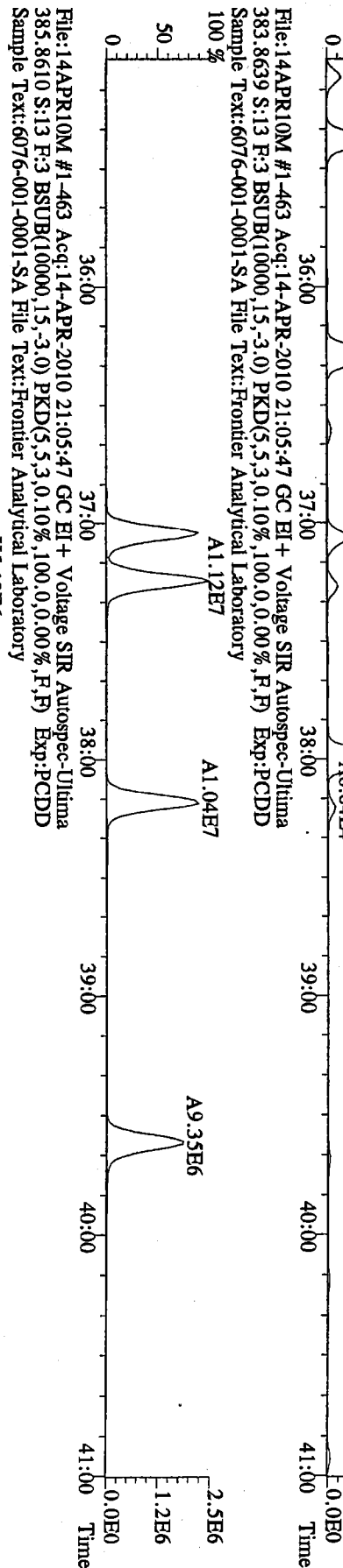
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 341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



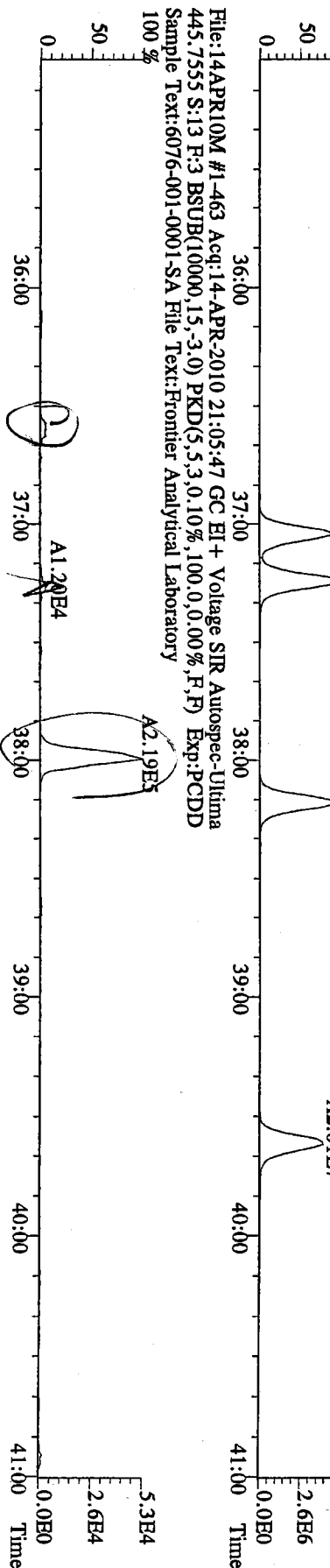
File:14APR10M #1-463 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



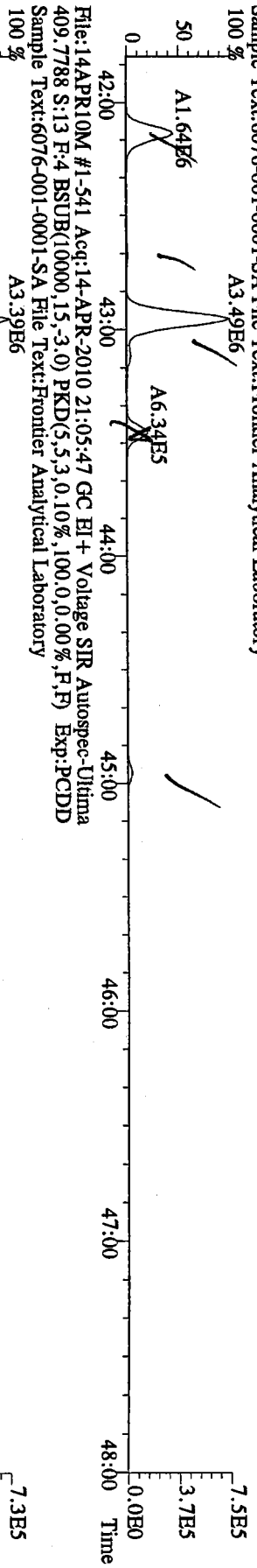
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383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



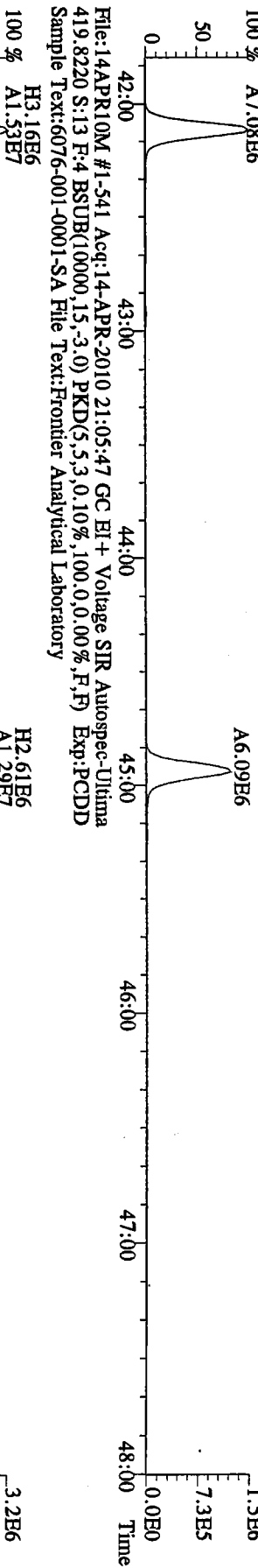
File:14APR10M #1-463 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



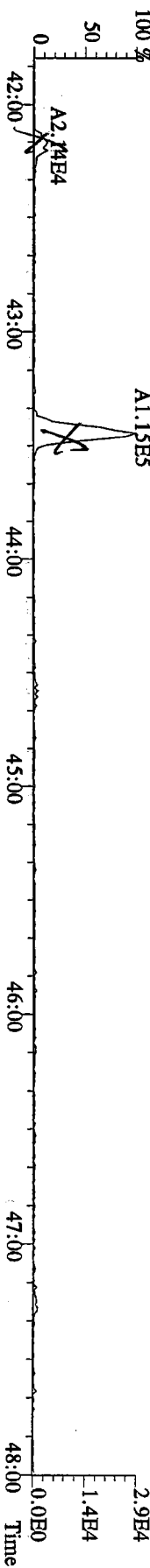
File:14APR10M #1-541 Acq:14-APR-2010 21:05:47 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



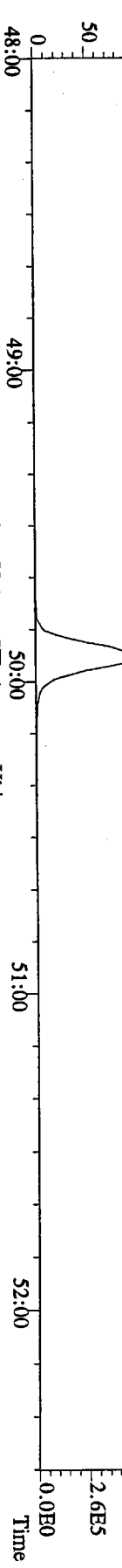
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417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



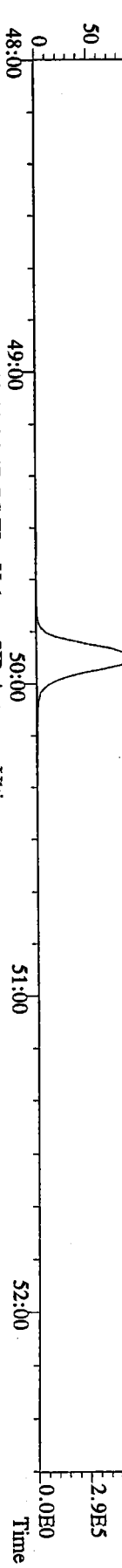
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479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



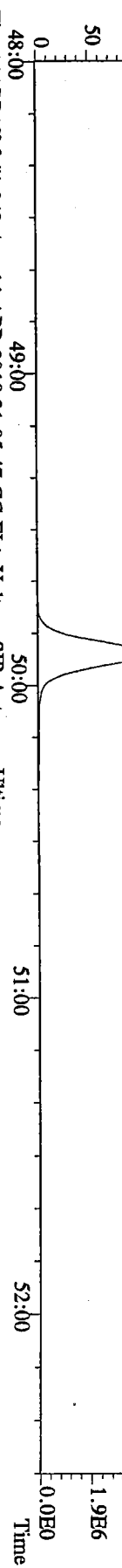
File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI + Voltage SIR Autospec-Ultima
 441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) F,F, Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



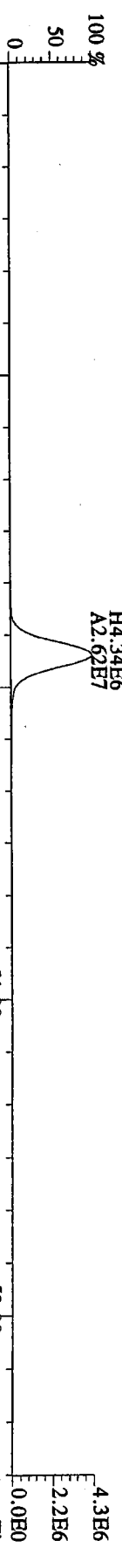
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 443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) F,F, Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



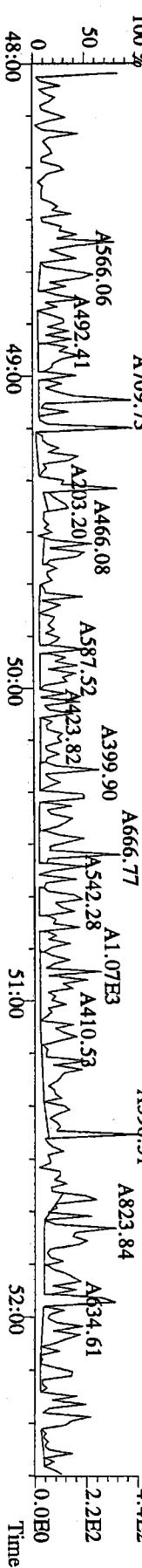
File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI + Voltage SIR Autospec-Ultima
 453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) F,F, Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI + Voltage SIR Autospec-Ultima
 455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) F,F, Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 21:05:47 GC EI + Voltage SIR Autospec-Ultima
 513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) F,F, Exp:PCDD
 Sample Text:6076-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6076-002-0001-SA Filename: 14APR10M Sam:14 Acquired: 14-APR-10 22:01:10 ICal: PCDDFAL3-4-14-10
 Client ID: CB4857032910COMP ConCal: ST041410M3 EndCal: ST041410M6
 Results: 6076 GC Column: DB5 Amount: 1.029

NATO 1989 Tox: 35.5
 WHO 1998 Tox: 27.3 WHO 2005 Tox:

29.2
 29.1
 41.5
 DL

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac | Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|--------|------|-------|------|------|---------|---------|-------|-------|------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 515 | 618 | 1.18 | | 0 |
| 1,2,3,7,8-PeCDD | 4.15e+04 | 1.47 y | 33:07 | 1.07 | 3.85 | J | 2.50 | - | - | * | | 5 |
| 1,2,3,4,7,8-HxCDD | 1.06e+05 | 1.32 y | 38:28 | 1.39 | 9.07 | J | 2.50 | - | - | * | | 8 |
| 1,2,3,6,7,8-HxCDD | 2.42e+05 | 1.22 y | 38:38 | 1.36 | 24.6 | | 2.50 | - | - | * | | 2 |
| 1,2,3,7,8,9-HxCDD | 1.80e+05 | 1.29 y | 39:04 | 1.40 | 16.4 | J | 2.50 | - | - | * | | 4 |
| 1,2,3,4,6,7,8-HpCDD | 8.60e+06 | 0.96 y | 44:02 | 1.14 | 855 | | 2.50 | - | - | * | | 12 |
| OCDD | 9.18e+07 | 0.91 y | 49:33 | 1.22 | 10900 | | 2.50 | - | - | * | | 4 |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 493 | 920 | 0.654 | | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 1130 | 856 | 1.36 | | |
| 2,3,4,7,8-PeCDF | 2.91e+04 | 1.50 y | 32:42 | 0.93 | 1.89 | J | 2.50 | - | - | * | | |
| 1,2,3,4,7,8-HxCDF | 4.40e+05 | 1.21 y | 37:04 | 1.07 | 28.7 | | 2.50 | - | - | * | | |
| 1,2,3,6,7,8-HxCDF | 2.25e+05 | 1.23 y | 37:16 | 0.97 | 14.5 | J | 2.50 | - | - | * | | |
| 2,3,4,6,7,8-HxCDF | 1.67e+05 | 1.27 y | 38:12 | 1.04 | 10.9 | J | 2.50 | - | - | * | | |
| 1,2,3,7,8,9-HxCDF | 5.08e+04 | 1.32 y | 39:41 | 1.15 | 3.26 | J | 2.50 | - | - | * | | |
| 1,2,3,4,6,7,8-HpCDF | 2.60e+06 | 1.03 y | 42:09 | 1.37 | 186 | | 2.50 | - | - | * | | |
| 1,2,3,4,7,8,9-HpCDF | 2.38e+05 | 1.03 y | 44:57 | 1.62 | 16.8 | J | 2.50 | - | - | * | | |
| OCDF | 4.94e+06 | 0.89 y | 49:55 | 0.85 | 500 | | 2.50 | - | - | * | | |
| 13C-2,3,7,8-TCDD | 1.76e+07 | 0.73 y | 27:16 | 0.98 | 1670 | | | | | | 85.9 | |
| 13C-1,2,3,7,8-PeCDD | 1.96e+07 | 1.62 y | 33:05 | 1.14 | 1610 | | | | | | 82.6 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.63e+07 | 1.29 y | 38:26 | 1.00 | 1610 | | | | | | 83.0 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.41e+07 | 1.29 y | 38:36 | 0.89 | 1570 | | | | | | 80.8 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.72e+07 | 1.02 y | 44:02 | 1.01 | 1690 | | | | | | 86.9 | |
| 13C-OCDD | 2.70e+07 | 0.96 y | 49:33 | 0.75 | 3580 | | | | | | 92.1 | |
| 13C-2,3,7,8-TCDF | 3.37e+07 | 0.86 y | 26:31 | 0.93 | 1740 | | | | | | 89.4 | |
| 13C-1,2,3,7,8-PeCDF | 3.36e+07 | 1.64 y | 31:21 | 0.93 | 1730 | | | | | | 89.2 | |
| 13C-2,3,4,7,8-PeCDF | 3.21e+07 | 1.63 y | 32:40 | 0.87 | 1750 | | | | | | 90.2 | |
| 13C-1,2,3,4,7,8-HxCDF | 2.79e+07 | 0.46 y | 37:03 | 1.82 | 1520 | | | | | | 78.4 | |
| 13C-1,2,3,6,7,8-HxCDF | 3.09e+07 | 0.47 y | 37:14 | 2.01 | 1530 | | | | | | 78.8 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.84e+07 | 0.48 y | 38:11 | 1.77 | 1590 | | | | | | 82.1 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.64e+07 | 0.47 y | 39:37 | 1.57 | 1680 | | | | | | 86.2 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.98e+07 | 0.46 y | 42:07 | 1.24 | 1590 | | | | | | 81.7 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.71e+07 | 0.46 y | 44:56 | 0.99 | 1710 | | | | | | 87.9 | |
| 13C-OCDF | 4.53e+07 | 0.90 y | 49:53 | 1.32 | 3420 | | | | | | 88.1 | |
| 37Cl-2,3,7,8-TCDD | 7.96e+06 | | 27:17 | 1.10 | 673 | | | | | | 86.5 | |
| 13C-1,2,3,4-TCDD | 2.09e+07 | 0.74 y | 26:41 | - | 116 | | | | | | | |
| 13C-1,2,3,4-TCDF | 4.07e+07 | 0.88 y | 25:25 | - | 107 | | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.95e+07 | 1.27 y | 39:03 | - | 116 | | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.12 | * | | 2.50 | 515 | 618 | 1.18 | | 0 |
| Total Penta-Dioxins | 1.34e+05 | | 30:08 | 1.07 | 12.4 | J | 2.50 | - | - | * | | 5 |
| Total Hexa-Dioxins | 1.42e+06 | | 36:01 | 1.38 | 133 | | 2.50 | - | - | * | | 8 |
| Total Hepta-Dioxins | 1.47e+07 | | 42:40 | 1.14 | 1460 | | 2.50 | - | - | * | | 2 |
| Total Tetra-Furans | 6.58e+05 | | 23:40 | 1.29 | 29.5 | D,M | 2.50 | - | - | * | | 4 |
| 1st Fn. Tot Penta-Furans | 1.69e+05 | | 28:20 | 0.93 | 10.8 | D,M | 2.50 | - | - | * | PeCDF | 1 |
| Total Penta-Furans | 1.17e+06 | | 30:07 | 0.93 | 74.3 | D,M | 2.50 | - | - | * | 85.1 | 6 |
| Total Hexa-Furans | 6.08e+06 | | 35:07 | 1.05 | 396 | D,M | 2.50 | - | - | * | | 12 |
| Total Hepta-Furans | 8.27e+06 | | 42:09 | 1.48 | 590 | | 2.50 | - | - | * | | 4 |

Analyst: 

Date: 4/15/10

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 15

File: 14APR10M

S: 14 I: 1 F: 2

Acquired: 14-APR-10 22:01:10

Total Concentration: 12.4

Unnamed Concentration: 8.543

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:08 | 1.68e+04 | 9.66e+03 | 1.74 y | 2.65e+04 | 2.46 | |
| 31:21 | 1.24e+04 | 7.27e+03 | 1.71 y | 1.97e+04 | 1.83 | |
| 31:36 | 1.83e+04 | 1.36e+04 | 1.34 y | 3.20e+04 | 2.97 | |
| 31:43 | 8.42e+03 | 5.48e+03 | 1.54 y | 1.39e+04 | 1.29 | |
| 33:07 | 2.47e+04 | 1.68e+04 | 1.47 y | 4.15e+04 | 3.85 | 1,2,3,7,8-PeCDD |

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15

File: 14APR10M

S: 14 I: 1 F: 3

Acquired: 14-APR-10 22:01:10

Total Concentration: 133

Unnamed Concentration: 82.619

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 36:01 | 1.36e+05 | 1.07e+05 | 1.27 y | 2.43e+05 | 22.4 | |
| 36:55 | 4.85e+04 | 3.54e+04 | 1.37 y | 8.39e+04 | 7.75 | |
| 37:22 | 2.91e+05 | 2.26e+05 | 1.29 y | 5.17e+05 | 47.8 | |
| 37:32 | 1.07e+04 | 9.10e+03 | 1.17 y | 1.98e+04 | 1.83 | |
| 38:28 | 6.03e+04 | 4.56e+04 | 1.32 y | 1.06e+05 | 9.07 | 1,2,3,4,7,8-HxCDD |
| 38:38 | 1.33e+05 | 1.09e+05 | 1.22 y | 2.42e+05 | 24.6 | 1,2,3,6,7,8-HxCDD |
| 38:56 | 1.66e+04 | 1.35e+04 | 1.23 y | 3.02e+04 | 2.79 | |
| 39:04 | 1.01e+05 | 7.83e+04 | 1.29 y | 1.80e+05 | 16.4 | 1,2,3,7,8,9-HxCDD |

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 14APR10M

S: 14 I: 1 F: 4

Acquired: 14-APR-10 22:01:10

Total Concentration: 1460

Unnamed Concentration: 605.761

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:40 | 2.95e+06 | 3.15e+06 | 0.94 y | 6.10e+06 | 606 | |
| 44:02 | 4.22e+06 | 4.38e+06 | 0.96 y | 8.60e+06 | 855 | 1,2,3,4,6,7,8-HpCDD |

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15

File: 14APR10M

S: 14 I: 1 F: 1

Acquired: 14-APR-10 22:01:10

Total Concentration: 29.5

Unnamed Concentration: 29.519

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 23:40 | 1.18e+04 | 1.78e+04 | 0.66 y | 2.97e+04 | 1.33 | |
| 25:43 | 3.02e+04 | 4.56e+04 | 0.66 y | 7.58e+04 | 3.40 | |
| 27:46 | 1.44e+05 | 2.17e+05 | 0.66 y | 3.60e+05 | 16.2 | |
| 27:59 | 7.62e+04 | 1.16e+05 | 0.66 y | 1.92e+05 | 8.62 | |

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

Run: 15 File: 14APR10M S: 14 I: 1 F: 1
Acquired: 14-APR-10 22:01:10

Total Concentration: 10.8 Unnamed Concentration: 10.779

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 28:20 | 1.07e+05 | 6.19e+04 | 1.73 y | 1.69e+05 | 10.8 | |

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 14APR10M

S: 14 I: 1 F: 2

Acquired: 14-APR-10 22:01:10

Total Concentration: 74.3

Unnamed Concentration: 72.386

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:07 | 9.67e+04 | 6.11e+04 | 1.58 y | 1.58e+05 | 10.1 | |
| 31:40 | 3.49e+05 | 2.17e+05 | 1.61 y | 5.66e+05 | 36.1 | |
| 31:59 | 1.47e+05 | 9.02e+04 | 1.63 y | 2.38e+05 | 15.1 | |
| 32:42 | 1.74e+04 | 1.17e+04 | 1.50 y | 2.91e+04 | 1.89 | 2,3,4,7,8-PeCDF |
| 32:44 | 1.76e+04 | 1.10e+04 | 1.60 y | 2.86e+04 | 1.82 | |
| 34:02 | 8.90e+04 | 5.73e+04 | 1.55 y | 1.46e+05 | 9.32 | |

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 14APR10M

S: 14 I: 1 F: 3

Acquired: 14-APR-10 22:01:10

Total Concentration: 396

Unnamed Concentration: 338.282

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 35:07 | 1.41e+05 | 1.24e+05 | 1.14 y | 2.65e+05 | 17.2 | |
| 35:23 | 5.99e+05 | 4.90e+05 | 1.22 y | 1.09e+06 | 70.8 | |
| 35:59 | 1.80e+04 | 1.30e+04 | 1.39 y | 3.09e+04 | 2.01 | |
| 36:18 | 8.89e+05 | 7.06e+05 | 1.26 y | 1.59e+06 | 104 | |
| 36:37 | 7.84e+04 | 5.83e+04 | 1.34 y | 1.37e+05 | 8.89 | |
| 36:54 | 1.44e+04 | 1.11e+04 | 1.30 y | 2.55e+04 | 1.66 | |
| 37:04 | 2.41e+05 | 1.99e+05 | 1.21 y | 4.40e+05 | 28.7 | 1,2,3,4,7,8-HxCDF |
| 37:16 | 1.24e+05 | 1.01e+05 | 1.23 y | 2.25e+05 | 14.5 | 1,2,3,6,7,8-HxCDF |
| 38:00 | 1.13e+06 | 9.18e+05 | 1.23 y | 2.04e+06 | 133 | |
| 38:12 | 9.33e+04 | 7.34e+04 | 1.27 y | 1.67e+05 | 10.9 | 2,3,4,6,7,8-HxCDF |
| 38:38 | 9.06e+03 | 7.23e+03 | 1.25 y | 1.63e+04 | 1.06 | |
| 39:41 | 2.89e+04 | 2.19e+04 | 1.32 y | 5.08e+04 | 3.26 | 1,2,3,7,8,9-HxCDF |

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 14APR10M

S: 14 I: 1 F: 4

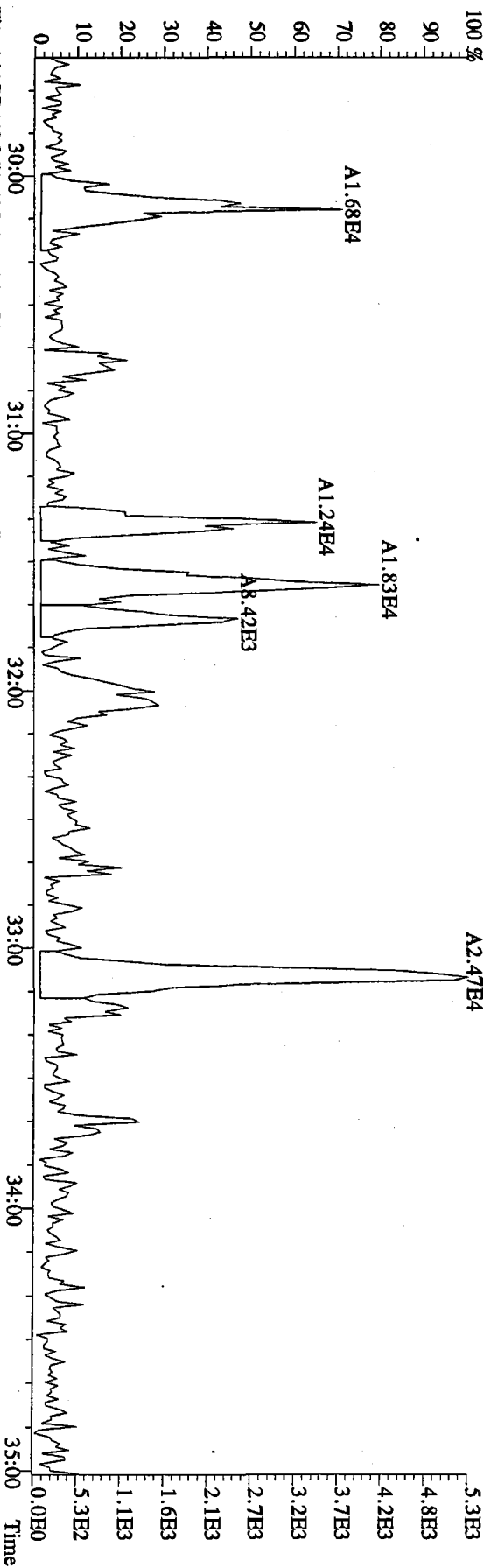
Acquired: 14-APR-10 22:01:10

Total Concentration: 590

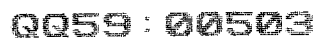
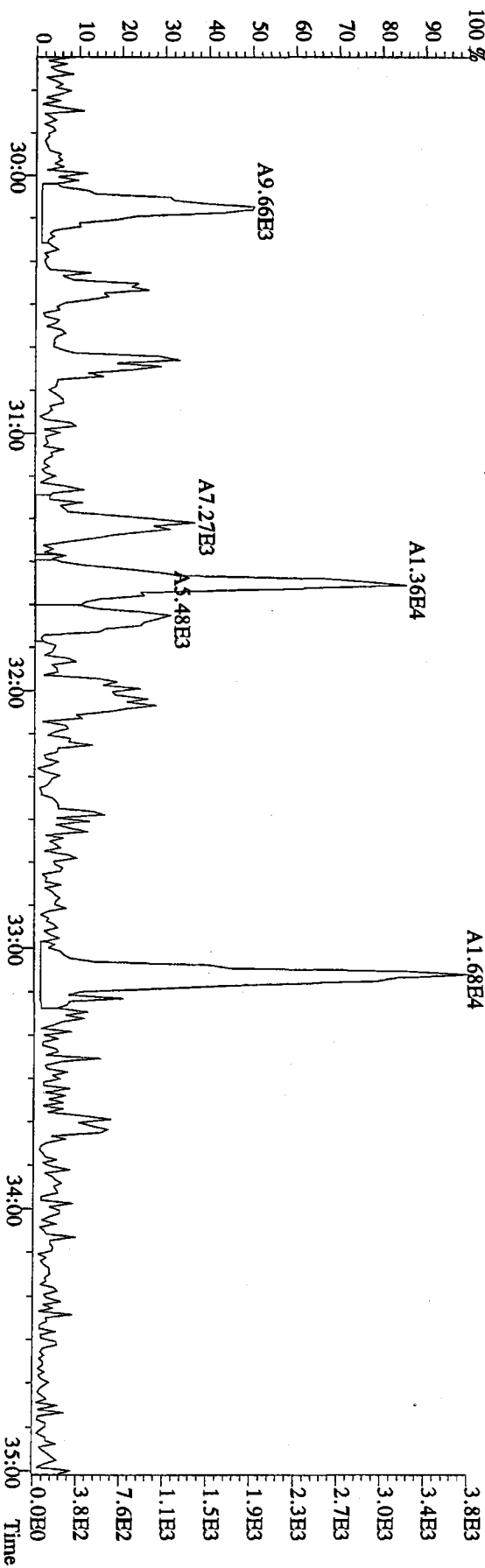
Unnamed Concentration: 386.738

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:09 | 1.32e+06 | 1.28e+06 | 1.03 y | 2.60e+06 | 186 | 1,2,3,4,6,7,8-HpCDF |
| 42:40 | 3.03e+04 | 3.02e+04 | 1.00 y | 6.04e+04 | 4.31 | |
| 42:57 | 2.71e+06 | 2.65e+06 | 1.02 y | 5.37e+06 | 382 | |
| 44:57 | 1.21e+05 | 1.17e+05 | 1.03 y | 2.38e+05 | 16.8 | 1,2,3,4,7,8,9-HpCDF |

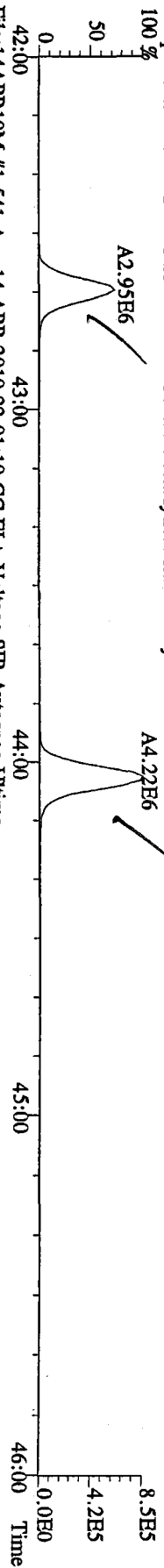
File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Utima
 355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



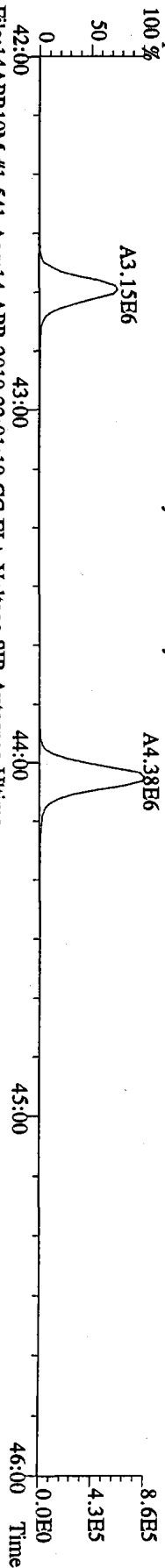
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 357.8517 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



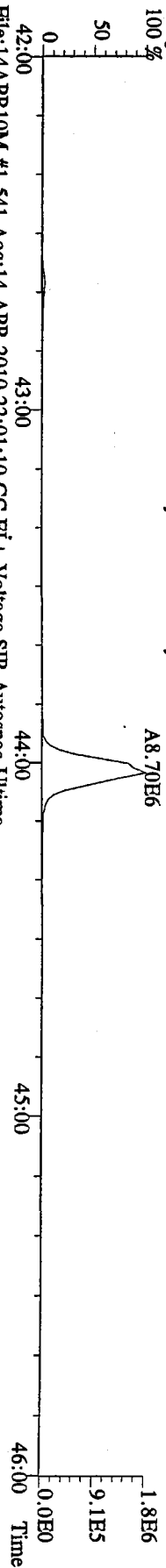
File:14APR10M #1-541 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



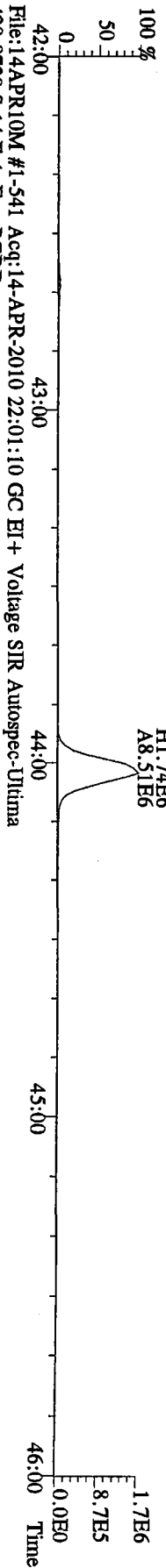
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425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



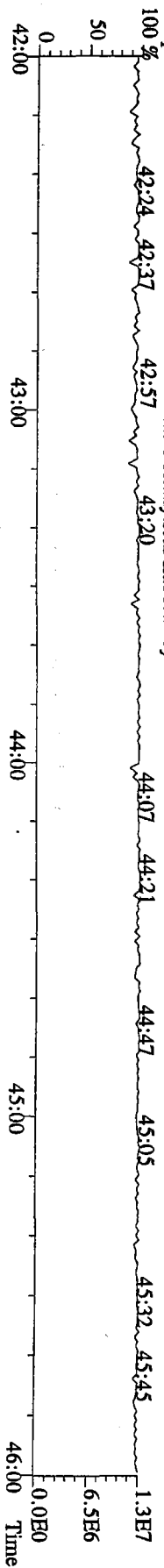
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435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



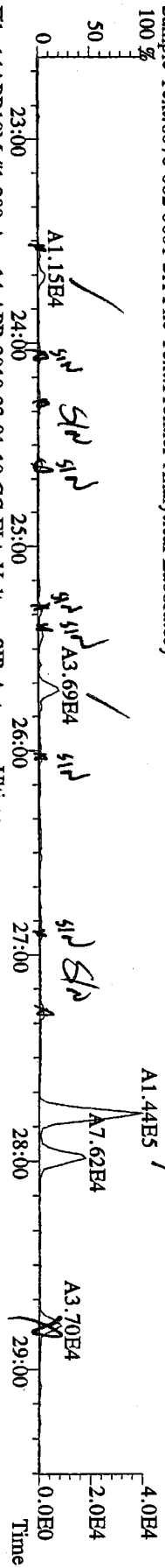
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437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



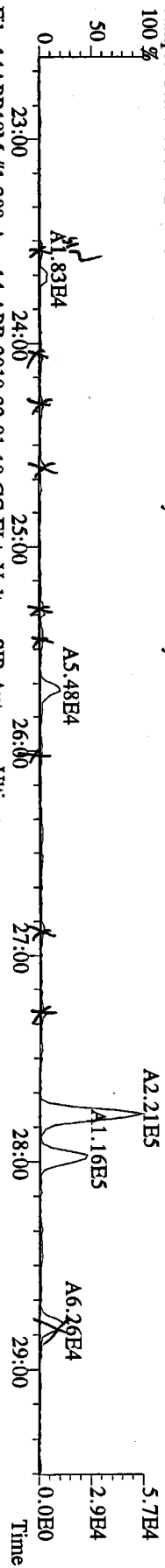
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430.9728 S:14 F:4 Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



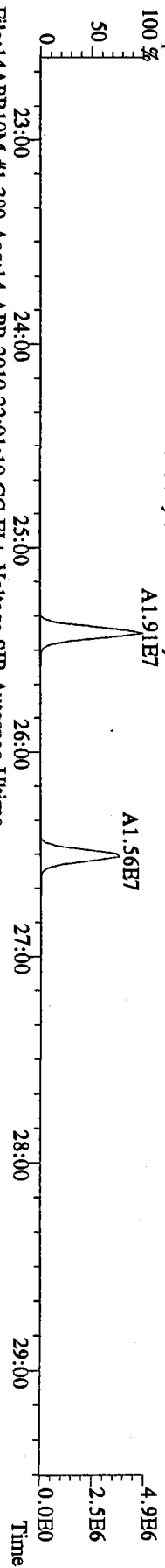
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



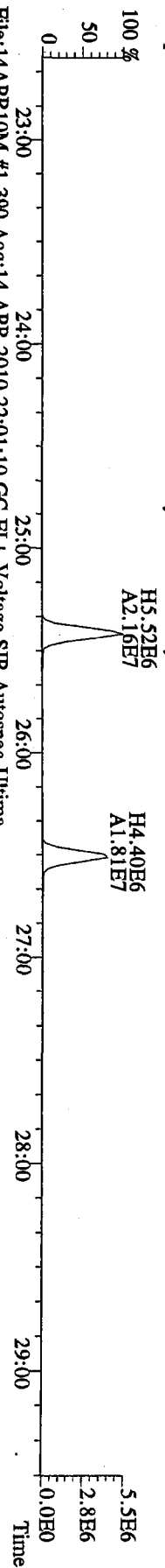
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



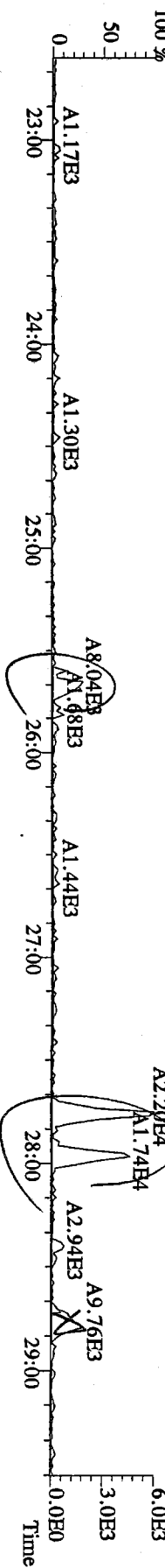
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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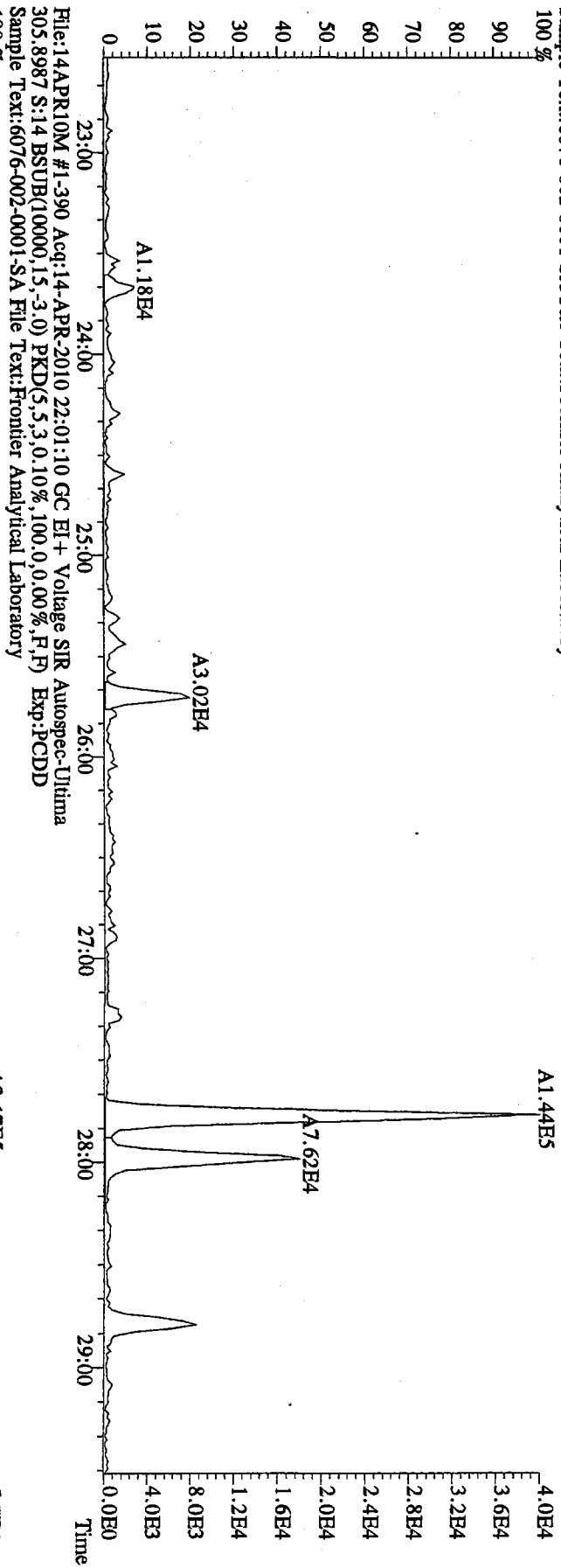
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



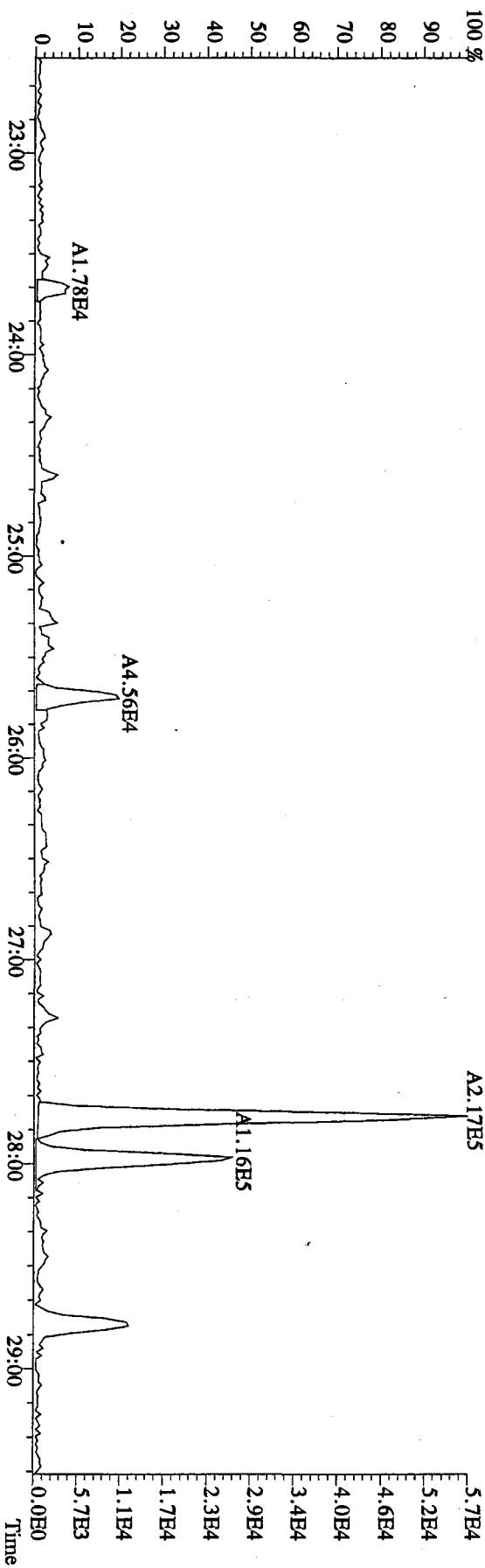
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



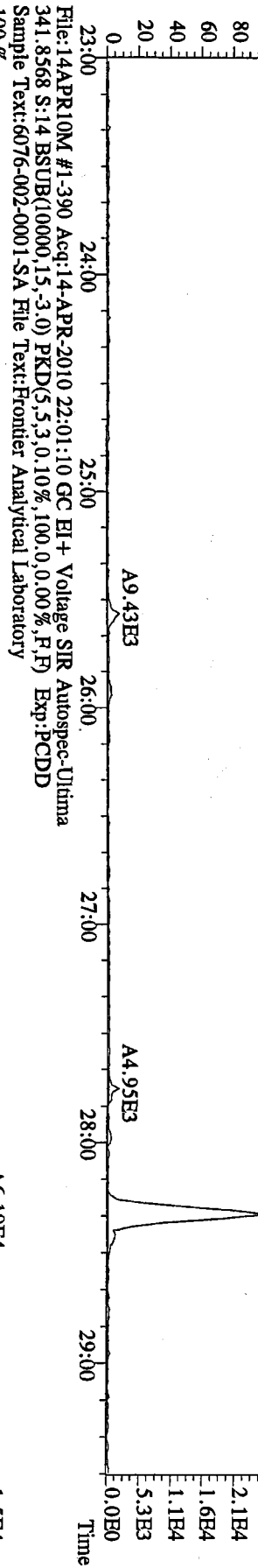
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:P:CDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



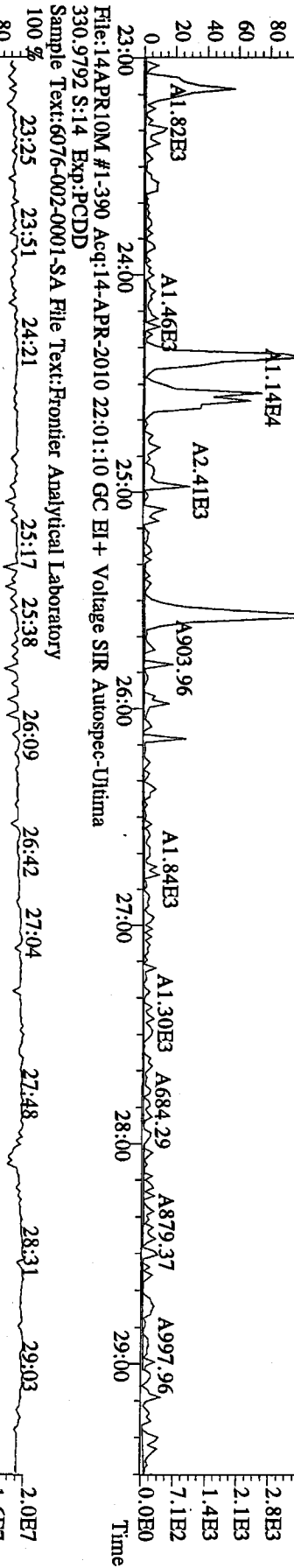
File:14APR10M #1-390 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:P:CDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



File: 14APR10M #1-390 Acq: 14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S: 14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp: PCDD
 Sample Text: 6076-002-0001-SA File Text: Frontier Analytical Laboratory



File: 14APR10M #1-390 Acq: 14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S: 14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp: PCDD
 Sample Text: 6076-002-0001-SA File Text: Frontier Analytical Laboratory



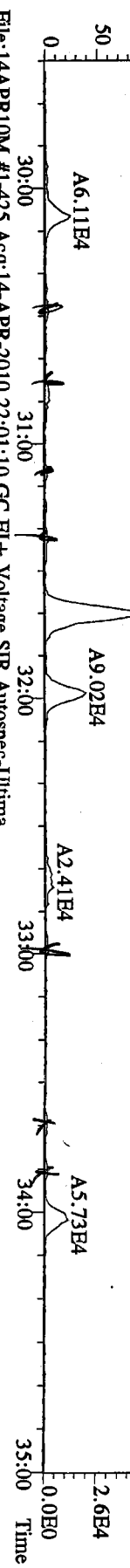
File: 14APR10M #1-390 Acq: 14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S: 14 Exp: PCDD
 Sample Text: 6076-002-0001-SA File Text: Frontier Analytical Laboratory



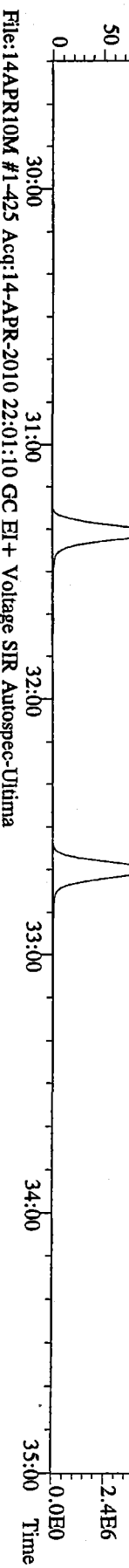
File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



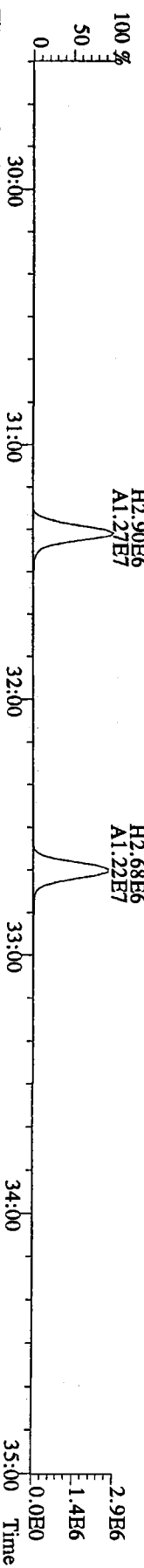
File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



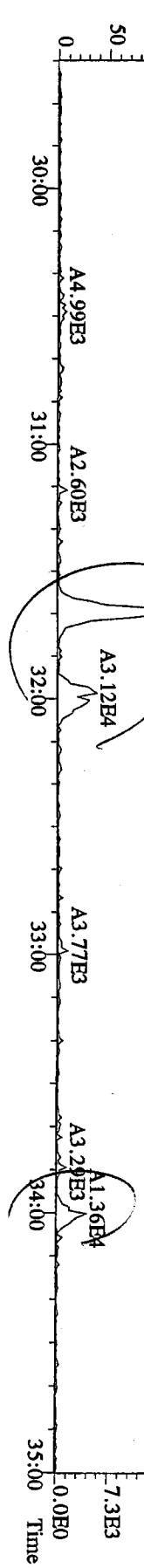
File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



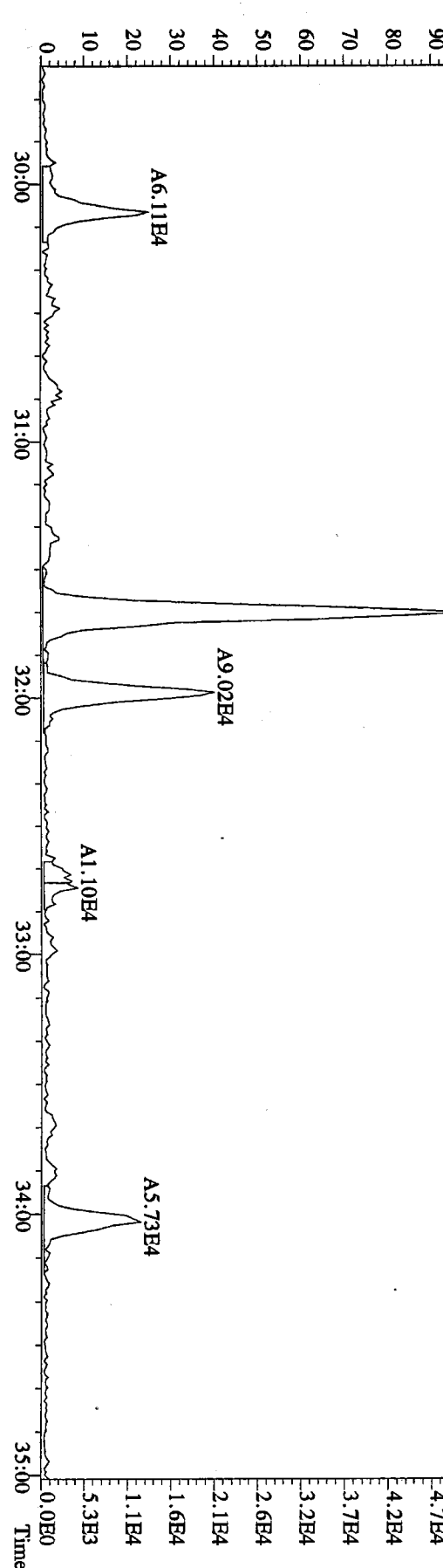
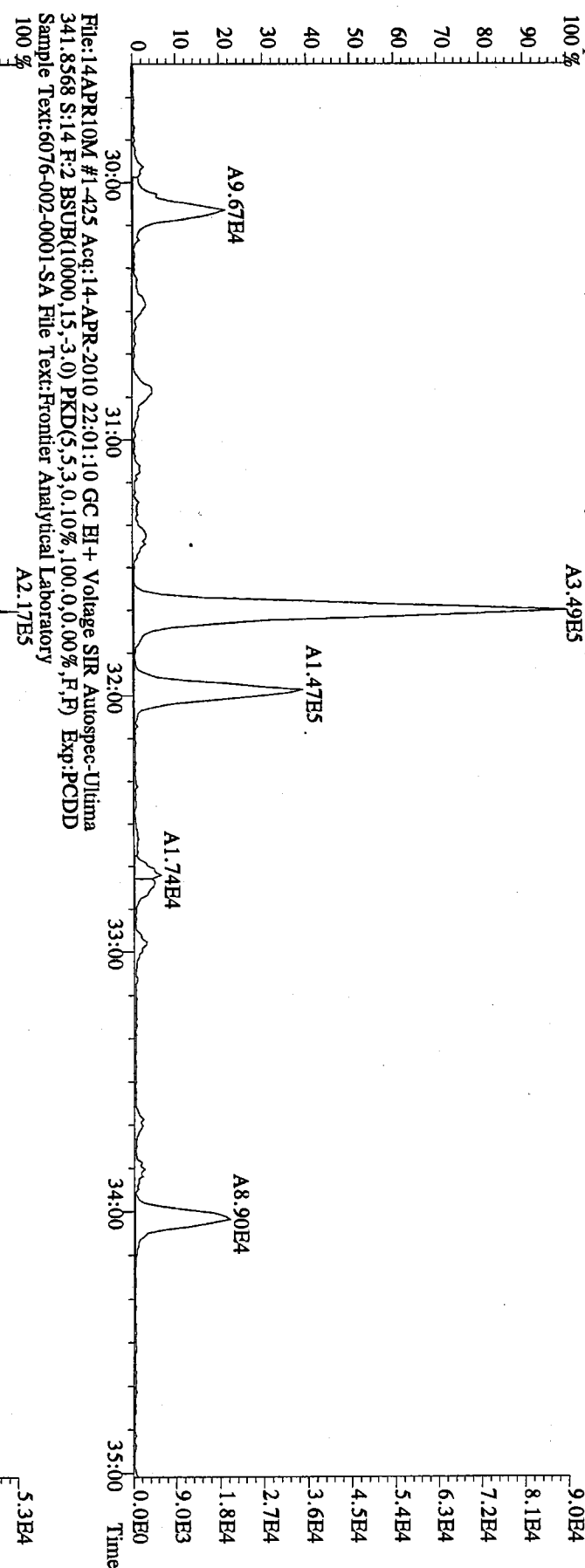
File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory

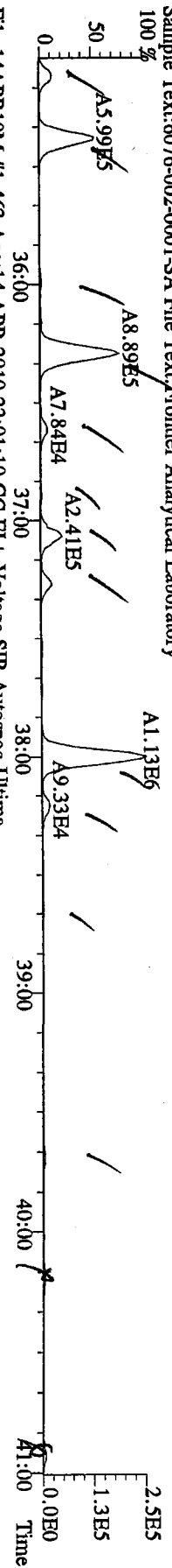


File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC HI + Voltage SIR Autospec-Ultima
 339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory
 A3.49E5

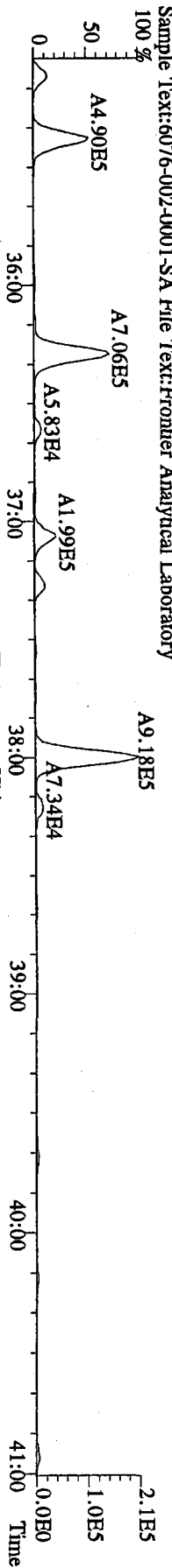


File:14APR10M #1-425 Acq:14-APR-2010 22:01:10 GC HI + Voltage SIR Autospec-Ultima
 341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory
 A2.17E5

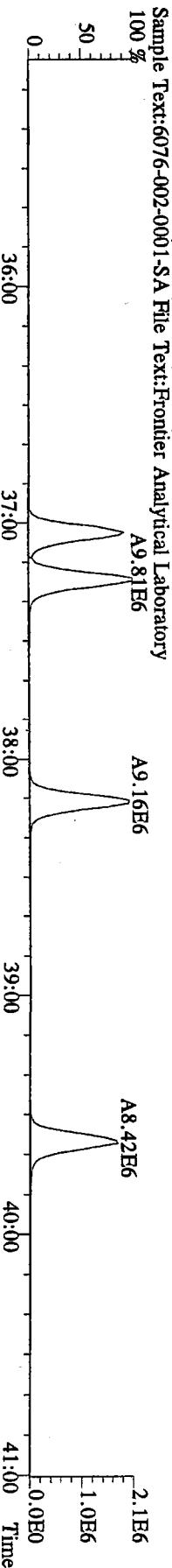
File:14APR10M #1-463 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



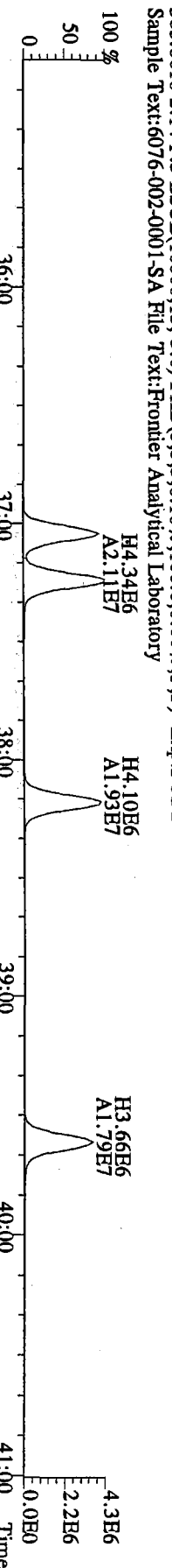
File:14APR10M #1-463 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



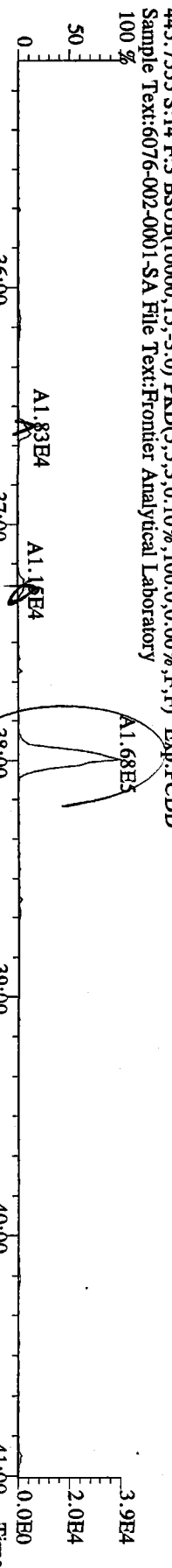
File:14APR10M #1-463 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



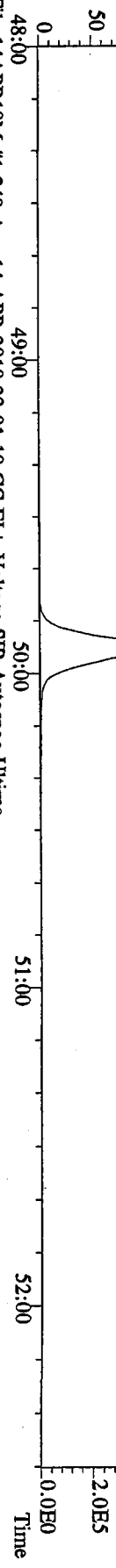
File:14APR10M #1-463 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



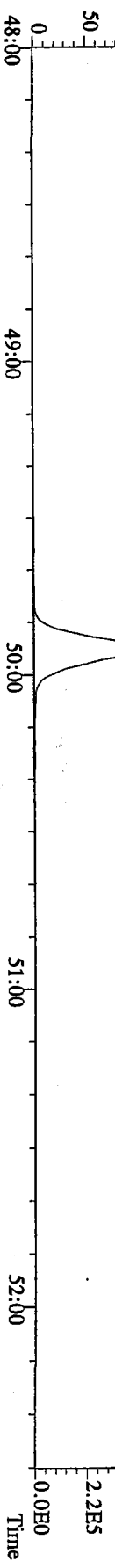
File:14APR10M #1-463 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



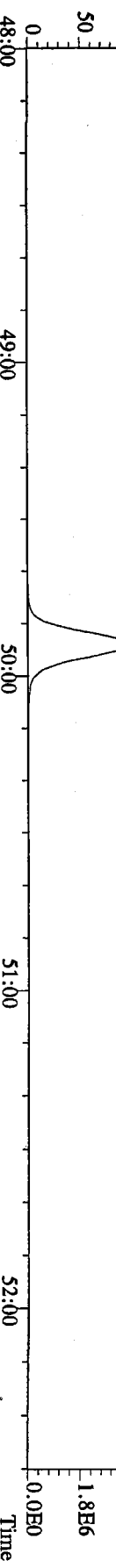
File:14APR10M #1-348 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



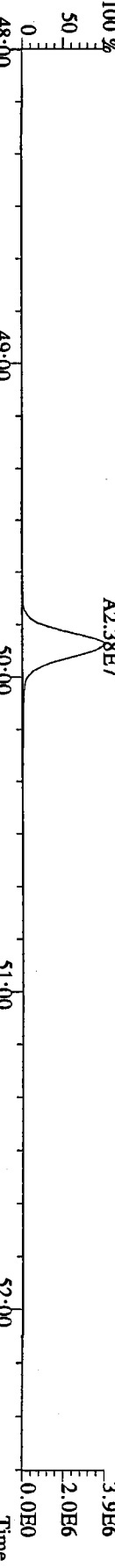
File:14APR10M #1-348 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



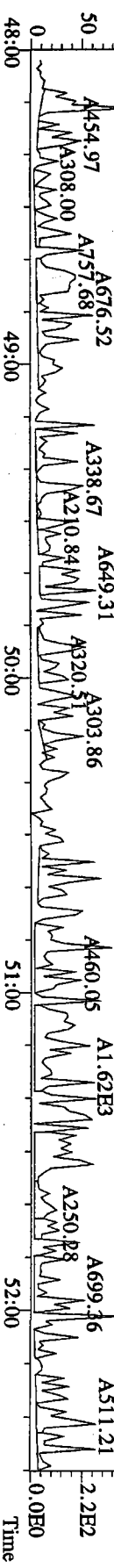
File:14APR10M #1-348 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 22:01:10 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6076-003-0001-SA Filename: 14APR10M Sam:15 Acquired: 14-APR-10 22:56:33 ICal: PCDDFAL3-4-14-10
 Client ID: CB1032910COMP ConCal: ST041410M3 EndCal: ST041410M6
 Results: 6076 GC Column: DB5 Amount: 1.023 ✓

NATO 1989 Tox: 0.522
 WHO 1998 Tox: 0.333 WHO 2005 Tox: 0.375 ✓
 Conc Qual Fac Noise-1 Noise-2 DL

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|------|-------|------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 538 | 516 | 0.888 | 0 |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 1.07 | * | | 2.50 | 632 | 361 | 0.889 | 0 |
| 1,2,3,4,7,8-HxCDD | * | * n | NotFnd | 1.39 | * | | 2.50 | 947 | 868 | 1.53 | 0 |
| 1,2,3,6,7,8-HxCDD | * | * n | NotFnd | 1.36 | * | | 2.50 | 947 | 868 | 1.79 | 0 |
| 1,2,3,7,8,9-HxCDD | * | * n | NotFnd | 1.40 | * | | 2.50 | 947 | 868 | 1.62 | 0 |
| 1,2,3,4,6,7,8-HpCDD | 2.90e+05 | 0.91 y | 44:02 | 1.14 | 26.0 | | 2.50 | - | - | * | 2 |
| OCDD | 1.69e+06 | 0.92 y | 49:33 | 1.22 | 196 | | 2.50 | - | - | * | 2 |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 952 | 1300 | 0.859 | 0 |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 396 | 419 | 0.498 | 0 |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.93 | * | | 2.50 | 396 | 419 | 0.489 | 0 |
| 1,2,3,4,7,8-HxCDF | * | * n | NotFnd | 1.07 | * | | 2.50 | 680 | 522 | 0.771 | 0 |
| 1,2,3,6,7,8-HxCDF | * | * n | NotFnd | 0.97 | * | | 2.50 | 680 | 522 | 0.785 | 0 |
| 2,3,4,6,7,8-HxCDF | * | * n | NotFnd | 1.04 | * | | 2.50 | 680 | 522 | 0.820 | 0 |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.15 | * | | 2.50 | 680 | 522 | 0.838 | 0 |
| 1,2,3,4,6,7,8-HpCDF | 8.11e+04 | 0.89 y | 42:09 | 1.37 | 5.20 | J | 2.50 | - | - | * | 3 |
| 1,2,3,4,7,8,9-HpCDF | * | * n | NotFnd | 1.62 | * | | 2.50 | 444 | 366 | 0.650 | 0 |
| OCDF | 1.41e+05 | 0.92 y | 49:55 | 0.85 | 13.1 | J | 2.50 | - | - | * | 2 |
| 13C-2,3,7,8-TCDD | 2.11e+07 | 0.73 y | 27:16 | 0.98 | 1780 | | | | | 91.1 | 0 |
| 13C-1,2,3,7,8-PeCDD | 2.30e+07 | 1.64 y | 33:05 | 1.14 | 1680 | | | | | 85.9 | 0 |
| 13C-1,2,3,4,7,8-HxCDD | 1.89e+07 | 1.30 y | 38:26 | 1.00 | 1660 | | | | | 84.9 | 0 |
| 13C-1,2,3,6,7,8-HxCDD | 1.63e+07 | 1.28 y | 38:36 | 0.89 | 1620 | | | | | 82.6 | 0 |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.92e+07 | 1.03 y | 44:01 | 1.01 | 1670 | | | | | 85.5 | 0 |
| 13C-OCDD | 2.77e+07 | 0.95 y | 49:32 | 0.75 | 3260 | | | | | 83.3 | 0 |
| 13C-2,3,7,8-TCDF | 3.86e+07 | 0.87 y | 26:30 | 0.93 | 1730 | | | | | 88.4 | 0 |
| 13C-1,2,3,7,8-PeCDF | 3.90e+07 | 1.65 y | 31:20 | 0.93 | 1740 | | | | | 89.2 | 0 |
| 13C-2,3,4,7,8-PeCDF | 3.70e+07 | 1.65 y | 32:40 | 0.87 | 1760 | | | | | 89.8 | 0 |
| 13C-1,2,3,4,7,8-HxCDF | 3.28e+07 | 0.47 y | 37:03 | 1.82 | 1590 | | | | | 81.4 | 0 |
| 13C-1,2,3,6,7,8-HxCDF | 3.55e+07 | 0.48 y | 37:14 | 2.01 | 1560 | | | | | 80.0 | 0 |
| 13C-2,3,4,6,7,8-HxCDF | 3.25e+07 | 0.48 y | 38:11 | 1.77 | 1620 | | | | | 82.9 | 0 |
| 13C-1,2,3,7,8,9-HxCDF | 2.97e+07 | 0.47 y | 39:36 | 1.57 | 1680 | | | | | 85.9 | 0 |
| 13C-1,2,3,4,6,7,8-HpCDF | 2.23e+07 | 0.47 y | 42:07 | 1.24 | 1590 | | | | | 81.1 | 0 |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.86e+07 | 0.48 y | 44:55 | 0.99 | 1650 | | | | | 84.4 | 0 |
| 13C-OCDF | 4.94e+07 | 0.91 y | 49:54 | 1.32 | 3320 | | | | | 84.8 | 0 |
| 37Cl-2,3,7,8-TCDD | 9.21e+06 | | 27:18 | 1.10 | 692 | | | | | 88.5 | 0 |
| 13C-1,2,3,4-TCDD | 2.36e+07 | 0.74 y | 26:41 | - | 132 | | | | | | 0 |
| 13C-1,2,3,4-TCDF | 4.72e+07 | 0.87 y | 25:26 | - | 124 | | | | | | 0 |
| 13C-1,2,3,7,8,9-HxCDD | 2.21e+07 | 1.29 y | 39:03 | - | 132 | | | | | | 0 |
| Total Tetra-Dioxins | * | | NotFnd | 1.12 | * | | 2.50 | 538 | 516 | 0.888 | 0 |
| Total Penta-Dioxins | * | | NotFnd | 1.07 | * | | 2.50 | 632 | 361 | 0.889 | 0 |
| Total Hexa-Dioxins | 1.04e+05 | | 36:00 | 1.38 | 8.32 | J | 2.50 | - | - | * | 2 |
| Total Hepta-Dioxins | 5.90e+05 | | 42:40 | 1.14 | 52.9 | | 2.50 | - | - | * | 2 |
| Total Tetra-Furans | * | | NotFnd | 1.29 | * | | 2.50 | 952 | 1300 | 0.859 | 0 |
| 1st Fn. Tot Penta-Furans | * | | NotFnd | 0.93 | * | | 2.50 | 1610 | 914 | 1.53 | 0 |
| Total Penta-Furans | * | | NotFnd | 0.93 | * | | 2.50 | 1610 | 914 | 1.53 | 0 |
| Total Hexa-Furans | 1.20e+05 | | 35:22 | 1.05 | 6.84 | J | 2.50 | - | - | * | 3 |
| Total Hepta-Furans | 1.92e+05 | | 42:09 | 1.48 | 12.4 | J | 2.50 | - | - | * | 2 |

Analyst: [Signature] Date: 4/15/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 16

File: 14APR10M

S: 15 I: 1 F: 3

Acquired: 14-APR-10 22:56:33

Total Concentration: 8.32

Unnamed Concentration: 8.323

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 36:00 | 2.46e+04 | 1.83e+04 | 1.34 y | 4.29e+04 | 3.44 | |
| 37:21 | 3.43e+04 | 2.65e+04 | 1.30 y | 6.08e+04 | 4.88 | |

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 16

File: 14APR10M

S: 15 I: 1 F: 4

Acquired: 14-APR-10 22:56:33

Total Concentration: 52.9

Unnamed Concentration: 26.869

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:40 | 1.43e+05 | 1.57e+05 | 0.91 y | 2.99e+05 | 26.9 | |
| 44:02 | 1.38e+05 | 1.52e+05 | 0.91 y | 2.90e+05 | 26.0 | 1,2,3,4,6,7,8-HpCDD |

Totals class: Total Hexa-Furans

Entry #: 45

Run: 16

File: 14APR10M

S: 15 I: 1 F: 3

Acquired: 14-APR-10 22:56:33

Total Concentration: 6.84

Unnamed Concentration: 6.837

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 35:22 | 1.85e+04 | 1.66e+04 | 1.11 y | 3.51e+04 | 1.99 | |
| 36:19 | 1.49e+04 | 1.08e+04 | 1.39 y | 2.57e+04 | 1.46 | |
| 38:01 | 3.27e+04 | 2.68e+04 | 1.22 y | 5.95e+04 | 3.38 | |

Totals class: Total Hepta-Furans

Entry #: 46

Run: 16

File: 14APR10M

S: 15 I: 1 F: 4

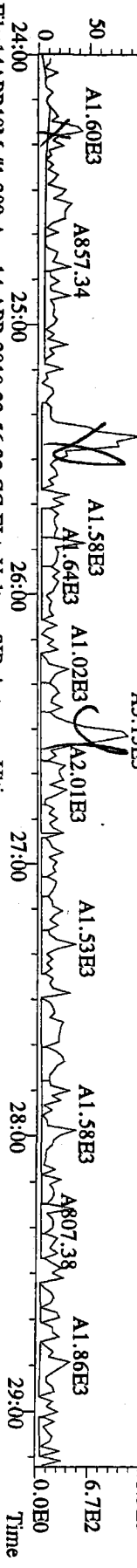
Acquired: 14-APR-10 22:56:33

Total Concentration: 12.4

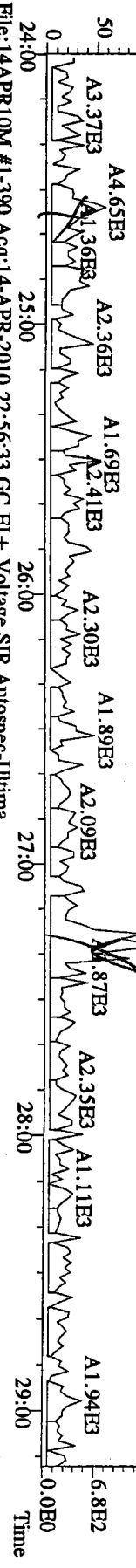
Unnamed Concentration: 7.175

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:09 | 3.82e+04 | 4.30e+04 | 0.89 y | 8.11e+04 | 5.20 | 1,2,3,4,6,7,8-HpCDF |
| 42:57 | 5.50e+04 | 5.59e+04 | 0.98 y | 1.11e+05 | 7.17 | |

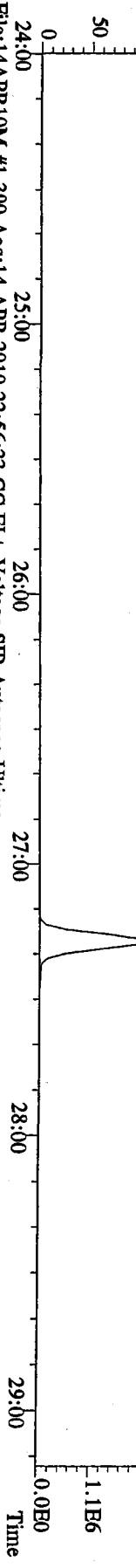
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



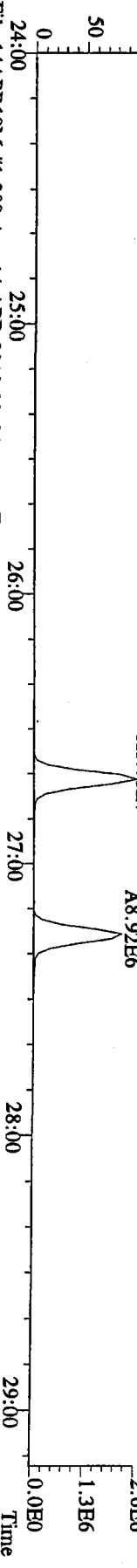
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 321.8936 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



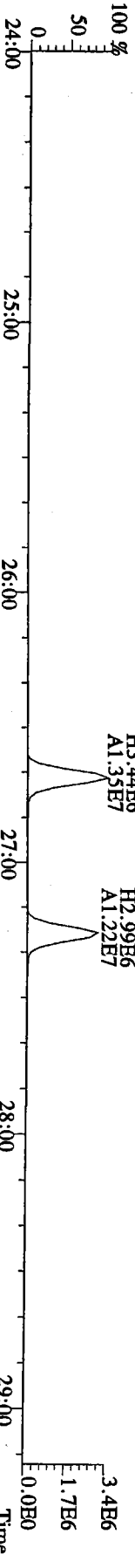
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory

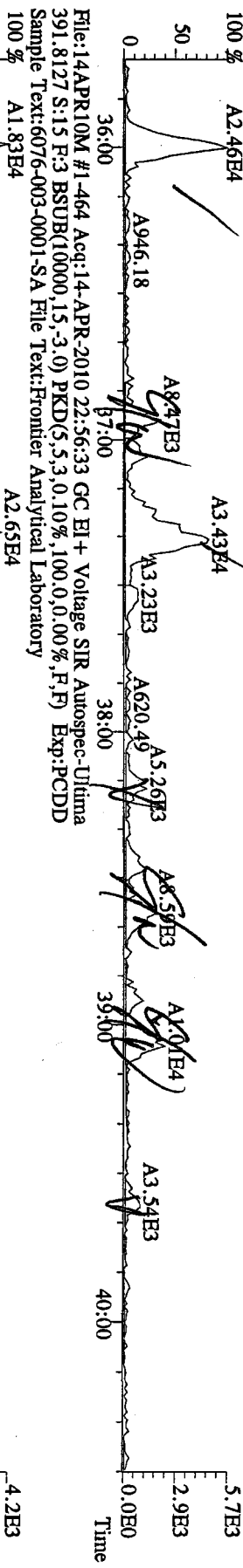


File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory

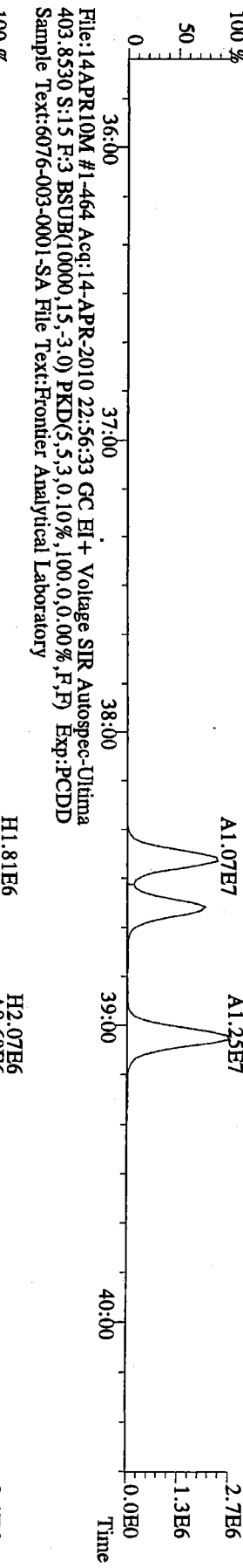


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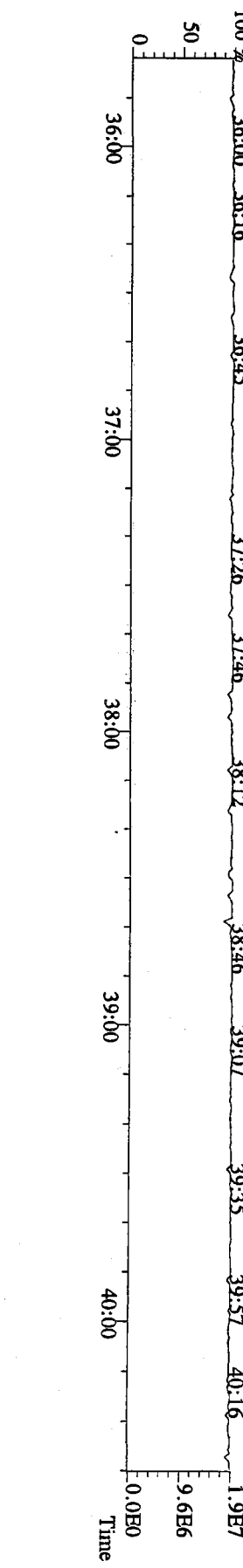
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:15 F:3 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



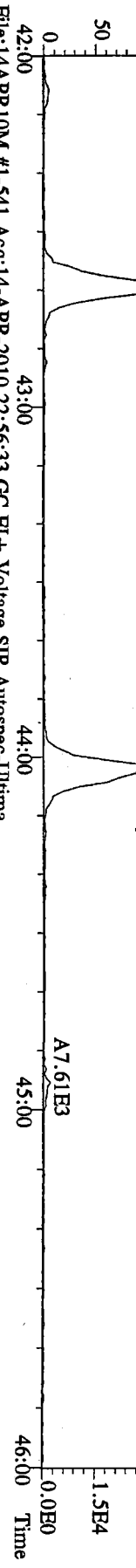
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI + Voltage SIR Autospec-Ultima
 401.8559 S:15 F:3 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



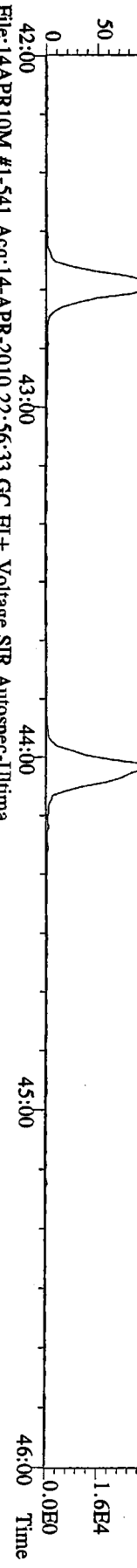
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI + Voltage SIR Autospec-Ultima
 380.9760 S:15 F:3 Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



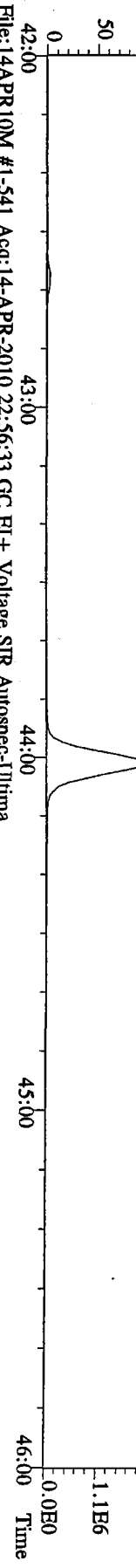
File:14APR10M #1-541 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronter Analytical Laboratory
100 %



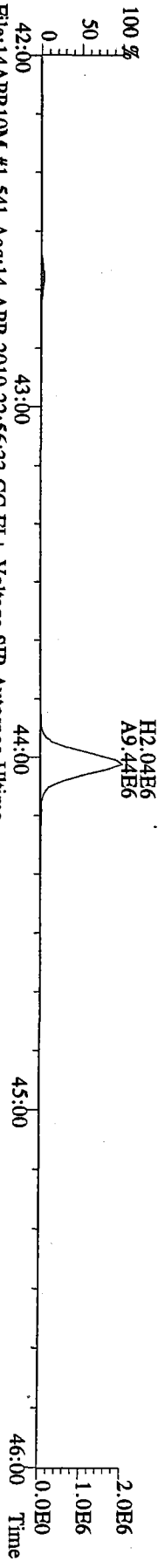
File:14APR10M #1-541 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronter Analytical Laboratory
100 %



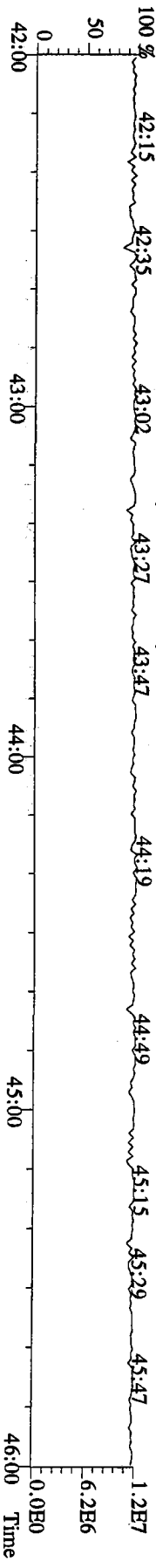
File:14APR10M #1-541 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronter Analytical Laboratory
100 %



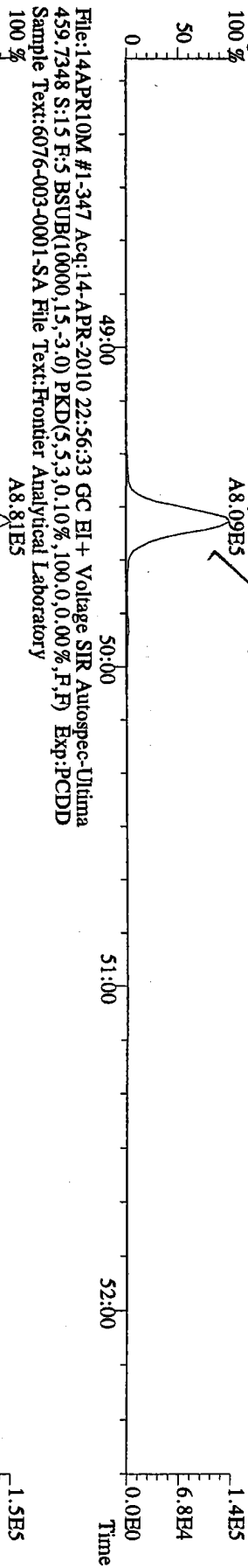
File:14APR10M #1-541 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronter Analytical Laboratory
100 %



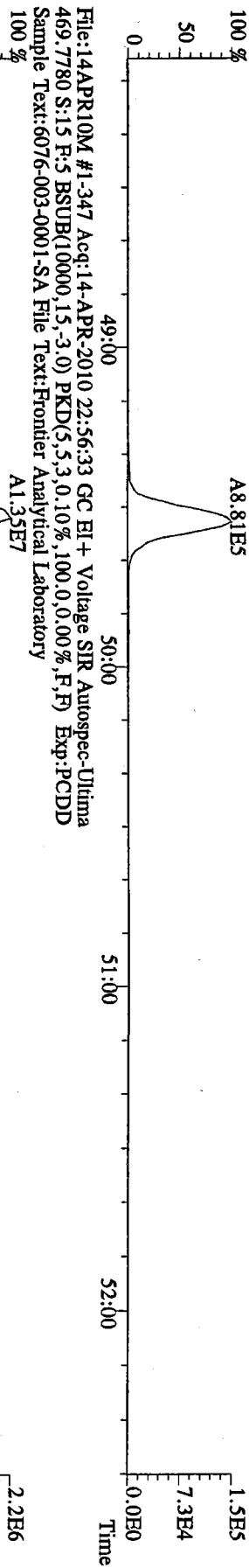
File:14APR10M #1-541 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:15 F:4 Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronter Analytical Laboratory
100 %



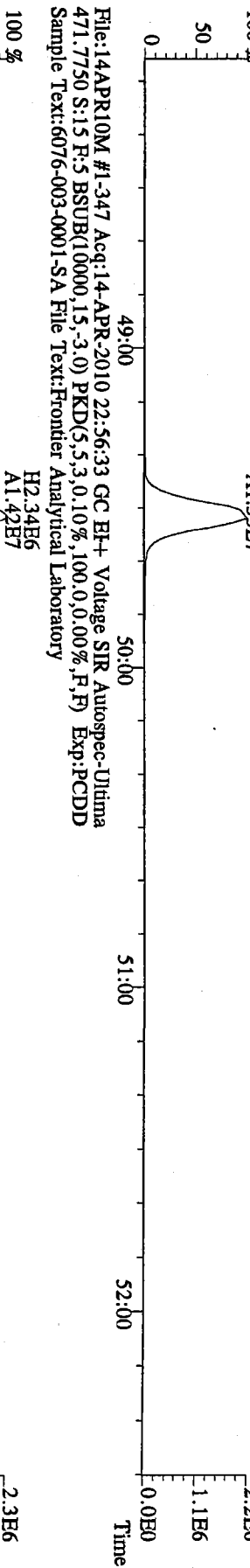
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %



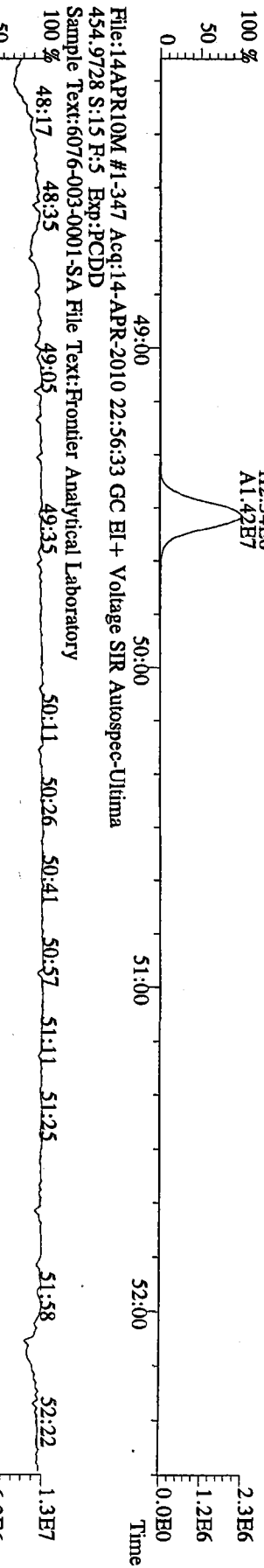
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
459.7348 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %



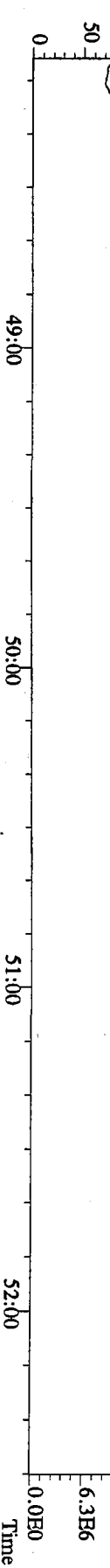
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
469.7780 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %



File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
471.7750 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %

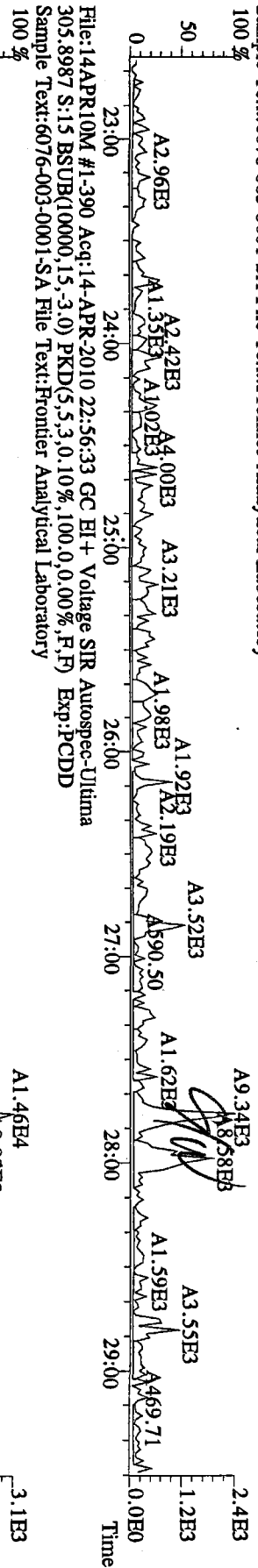


File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
454.9728 S:15 F:5 Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %

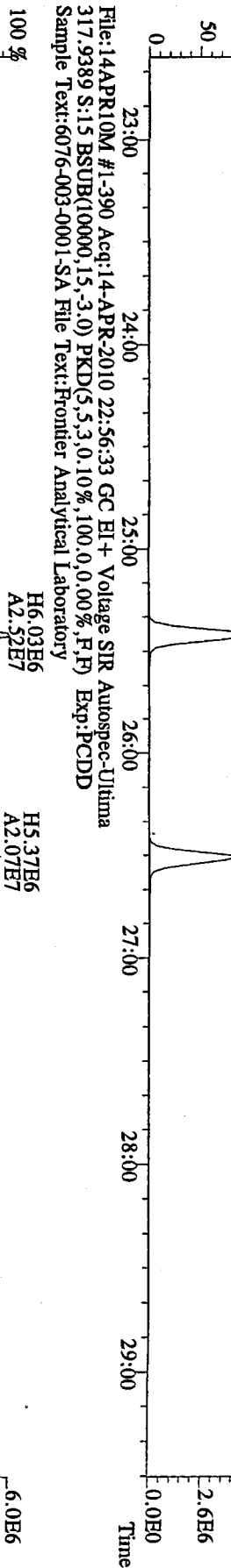


File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Utima
454.9728 S:15 F:5 Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Fronier Analytical Laboratory
100 %

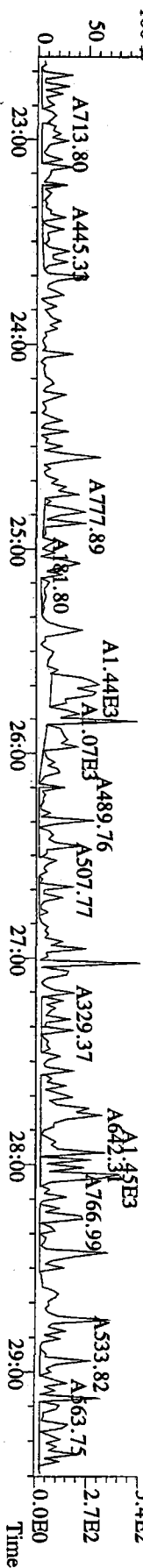
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



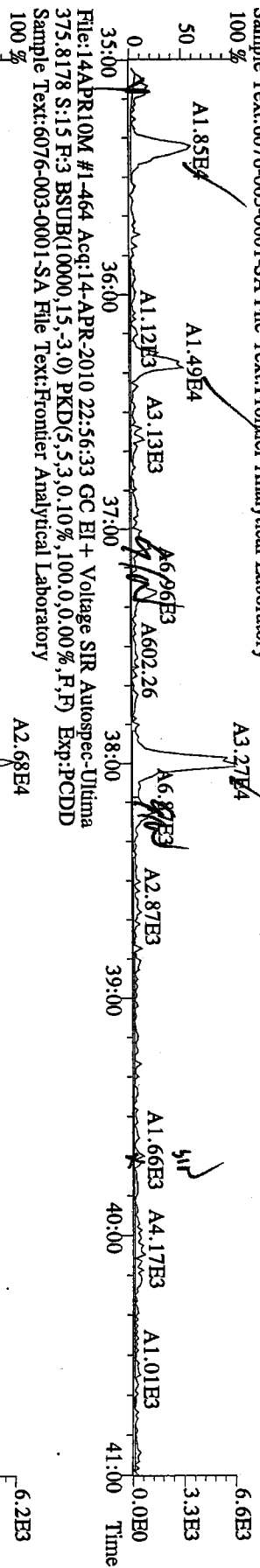
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



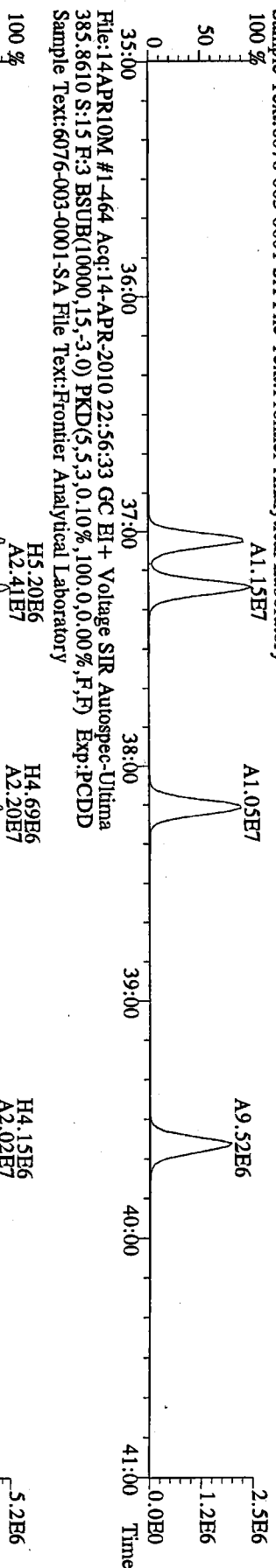
File:14APR10M #1-390 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



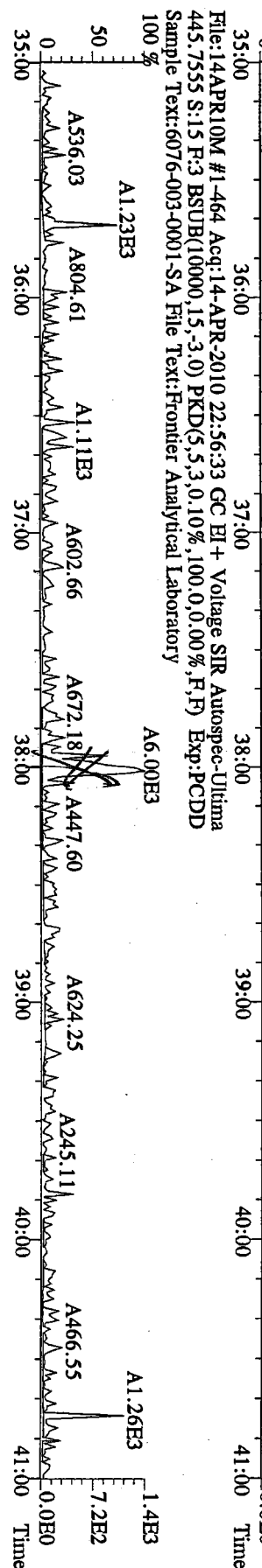
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



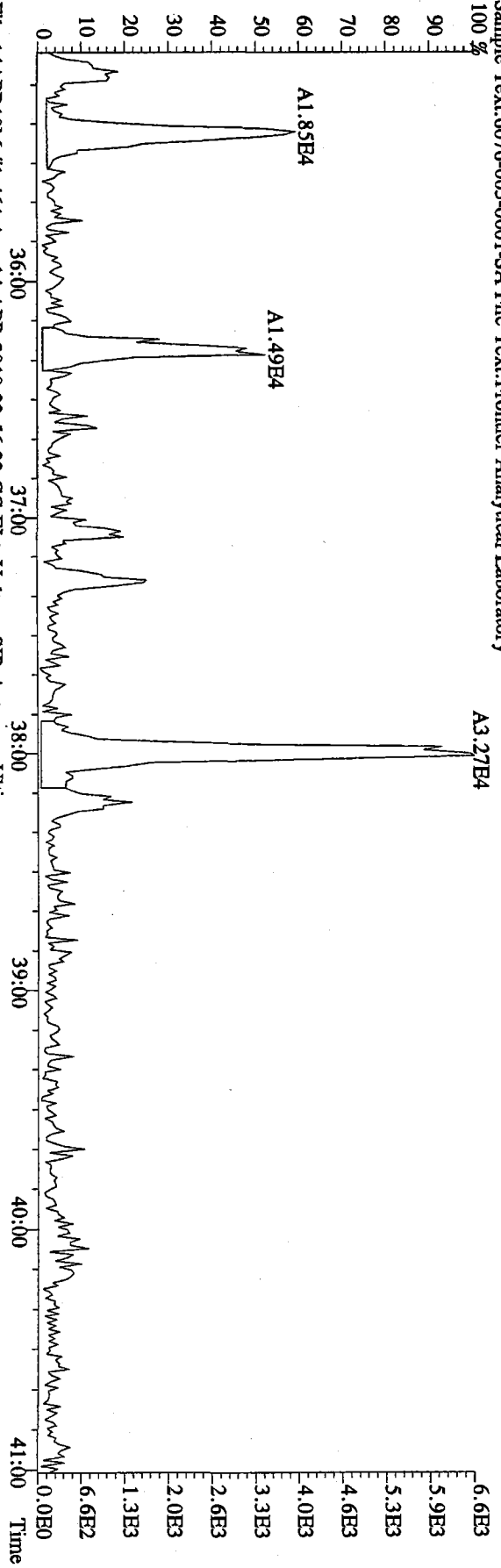
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



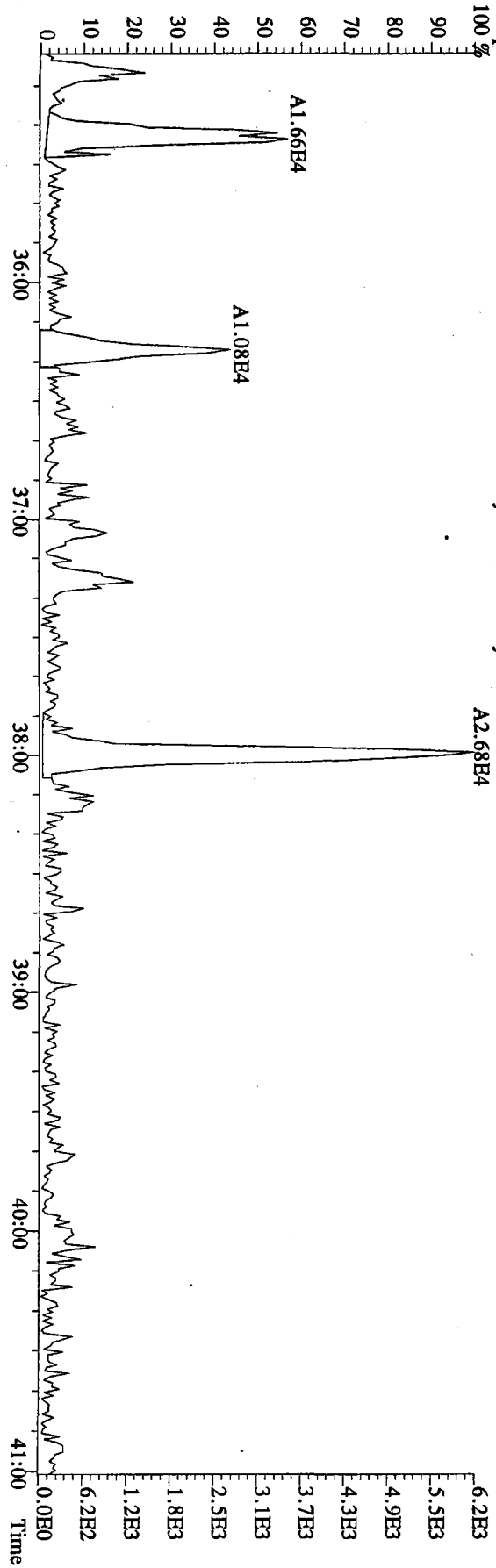
File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 375.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00% F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory

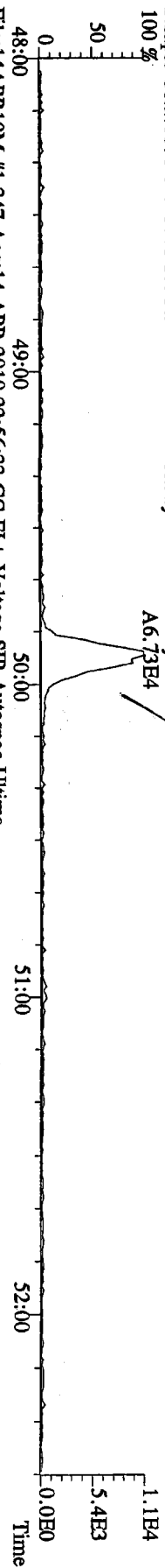


File:14APR10M #1-464 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00% F,F) Exp:PCDD
 Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory

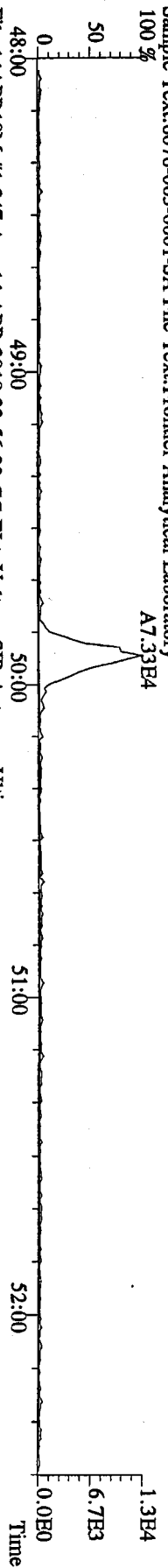


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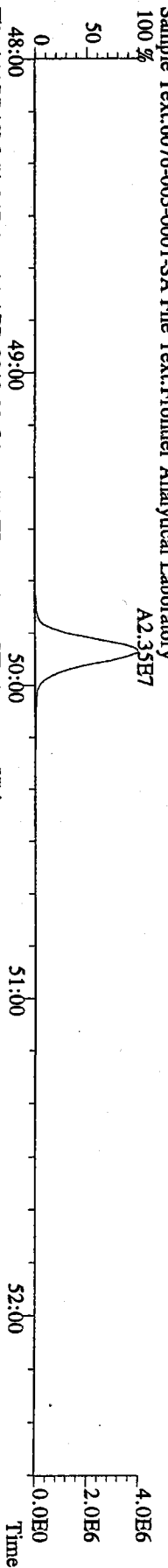
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



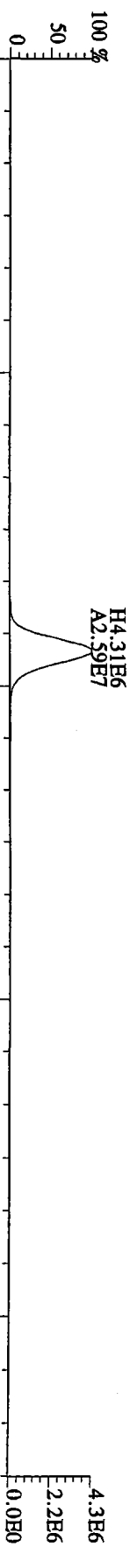
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



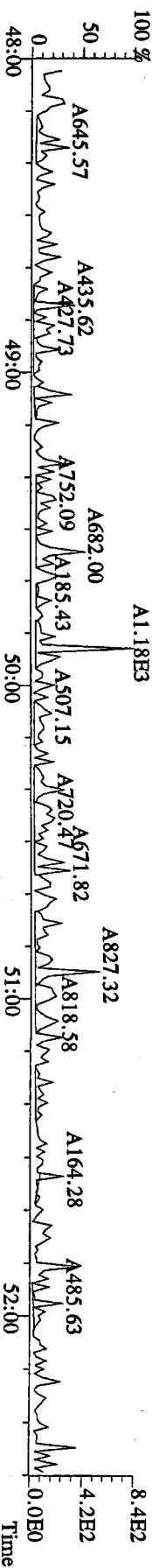
File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:14-APR-2010 22:56:33 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6076-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



FAL ID: 6076-004-0001-SA Filename: 14APR10M Sam:16 Acquired: 14-APR-10 23:51:58 ICal: PCDDFAL3-4-14-10
 Client ID: CB100032910COMP ConCal: ST041410M3 EndCal: ST041410M6
 Results: 6076 GC Column: DB5 Amount: 1.028

NATO 1989 Tox: 41.7
 WHO 1998 Tox: 35.1 WHO 2005 Tox: 36.5
 Conc Qual Fac Noise-1 Noise-2 DL

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|-----|-------|---------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 556 | 800 | 1.22 | 0 |
| 1,2,3,7,8-PeCDD | 6.96e+04 | 1.45 y | 33:07 | 1.07 | 5.83 | J | 2.50 | - | - | * | 5 |
| 1,2,3,4,7,8-HxCDD | 1.43e+05 | 1.23 y | 38:27 | 1.39 | 11.1 | J | 2.50 | - | - | * | 8 |
| 1,2,3,6,7,8-HxCDD | 3.36e+05 | 1.30 y | 38:38 | 1.36 | 32.0 | | 2.50 | - | - | * | 2 |
| 1,2,3,7,8,9-HxCDD | 2.55e+05 | 1.34 y | 39:04 | 1.40 | 21.4 | J | 2.50 | - | - | * | 4 |
| 1,2,3,4,6,7,8-HpCDD | 1.09e+07 | 0.94 y | 44:03 | 1.14 | 1030 | | 2.50 | - | - | * | 1 |
| OCDD | 8.77e+07 | 0.91 y | 49:33 | 1.22 | 9960 | | 2.50 | - | - | * | 8 |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 598 | 772 | 0.588 | 4 |
| 1,2,3,7,8-PeCDF | 3.28e+04 | 1.74 y | 31:22 | 0.93 | 1.90 | J | 2.50 | - | - | * | 1 |
| 2,3,4,7,8-PeCDF | 5.14e+04 | 1.47 y | 32:42 | 0.93 | 3.14 | J | 2.50 | - | - | * | 8 |
| 1,2,3,4,7,8-HxCDF | 6.44e+05 | 1.22 y | 37:04 | 1.07 | 38.1 | | 2.50 | - | - | * | 4 |
| 1,2,3,6,7,8-HxCDF | 2.75e+05 | 1.24 y | 37:16 | 0.97 | 16.3 | J | 2.50 | - | - | * | 1 |
| 2,3,4,6,7,8-HxCDF | 2.38e+05 | 1.26 y | 38:12 | 1.04 | 14.4 | J | 2.50 | - | - | * | 8 |
| 1,2,3,7,8,9-HxCDF | 6.00e+04 | 1.42 y | 39:41 | 1.15 | 3.67 | J | 2.50 | - | - | * | 1 |
| 1,2,3,4,6,7,8-HpCDF | 3.41e+06 | 1.02 y | 42:09 | 1.37 | 231 | | 2.50 | - | - | * | 8 |
| 1,2,3,4,7,8,9-HpCDF | 3.05e+05 | 0.99 y | 44:57 | 1.62 | 20.8 | J | 2.50 | - | - | * | 11 |
| OCDF | 6.63e+06 | 0.89 y | 49:55 | 0.85 | 642 | | 2.50 | - | - | * | 4 |
| 13C-2,3,7,8-TCDD | 1.99e+07 | 0.73 y | 27:16 | 0.98 | 1730 | | | | | 88.8 | |
| 13C-1,2,3,7,8-PeCDD | 2.17e+07 | 1.64 y | 33:05 | 1.14 | 1620 | | | | | 83.5 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.80e+07 | 1.30 y | 38:26 | 1.00 | 1660 | | | | | 85.1 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.51e+07 | 1.30 y | 38:36 | 0.89 | 1560 | | | | | 80.2 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.81e+07 | 1.04 y | 44:02 | 1.01 | 1650 | | | | | 85.0 | |
| 13C-OCDD | 2.82e+07 | 0.95 y | 49:32 | 0.75 | 3470 | | | | | 89.2 | |
| 13C-2,3,7,8-TCDF | 3.68e+07 | 0.87 y | 26:30 | 0.93 | 1700 | | | | | 87.5 | |
| 13C-1,2,3,7,8-PeCDF | 3.62e+07 | 1.64 y | 31:21 | 0.93 | 1680 | | | | | 86.1 | |
| 13C-2,3,4,7,8-PeCDF | 3.42e+07 | 1.63 y | 32:40 | 0.87 | 1680 | | | | | 86.3 | |
| 13C-1,2,3,4,7,8-HxCDF | 3.08e+07 | 0.47 y | 37:03 | 1.82 | 1560 | | | | | 80.3 | |
| 13C-1,2,3,6,7,8-HxCDF | 3.37e+07 | 0.47 y | 37:15 | 2.01 | 1550 | | | | | 79.8 | |
| 13C-2,3,4,6,7,8-HxCDF | 3.08e+07 | 0.46 y | 38:11 | 1.77 | 1610 | | | | | 82.6 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.77e+07 | 0.47 y | 39:37 | 1.57 | 1640 | | | | | 84.2 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 2.10e+07 | 0.46 y | 42:07 | 1.24 | 1570 | | | | | 80.5 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.77e+07 | 0.47 y | 44:56 | 0.99 | 1650 | | | | | 84.6 | |
| 13C-OCDF | 4.74e+07 | 0.92 y | 49:54 | 1.32 | 3330 | | | | | 85.5 | |
| 37Cl-2,3,7,8-TCDD | 9.47e+06 | | 27:17 | 1.10 | 731 | | | | | 94.0 | |
| 13C-1,2,3,4-TCDD | 2.29e+07 | 0.75 y | 26:41 | - | 127 | | | | | | |
| 13C-1,2,3,4-TCDF | 4.54e+07 | 0.88 y | 25:25 | - | 119 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 2.10e+07 | 1.30 y | 39:03 | - | 125 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.12 | * | | 2.50 | 556 | 800 | 1.22 | 0 |
| Total Penta-Dioxins | 1.94e+05 | | 30:06 | 1.07 | 16.2 | J | 2.50 | - | - | * | 5 |
| Total Hexa-Dioxins | 1.98e+06 | | 35:59 | 1.38 | 170 | | 2.50 | - | - | * | 8 |
| Total Hepta-Dioxins | 1.83e+07 | | 42:40 | 1.14 | 1730 | | 2.50 | - | - | * | 2 |
| Total Tetra-Furans | 8.71e+05 | | 23:41 | 1.29 | 35.8 | D,M | 2.50 | - | - | * | 4 |
| 1st Fn. Tot Penta-Furans | 2.56e+05 | | 28:20 | 0.93 | 15.2 | D,M | 2.50 | - | - | * | PeCDF 1 |
| Total Penta-Furans | 1.51e+06 | | 30:07 | 0.93 | 89.7 | D,M | 2.50 | - | - | * | 105 8 |
| Total Hexa-Furans | 8.13e+06 | | 35:07 | 1.05 | 488 | D,M | 2.50 | - | - | * | 11 |
| Total Hepta-Furans | 1.08e+07 | | 42:09 | 1.48 | 733 | | 2.50 | - | - | * | 4 |

Analyst: 

Date: 4/15/10

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 17

File: 14APR10M

S: 16 I: 1 F: 2

Acquired: 14-APR-10 23:51:58

Total Concentration: 16.2

Unnamed Concentration: 10.410

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:06 | 2.51e+04 | 1.54e+04 | 1.63 y | 4.05e+04 | 3.40 | |
| 31:21 | 1.39e+04 | 9.33e+03 | 1.49 y | 2.33e+04 | 1.95 | |
| 31:35 | 2.48e+04 | 1.73e+04 | 1.43 y | 4.21e+04 | 3.53 | |
| 31:43 | 1.15e+04 | 6.83e+03 | 1.68 y | 1.83e+04 | 1.53 | |
| 33:07 | 4.12e+04 | 2.84e+04 | 1.45 y | 6.96e+04 | 5.83 | 1,2,3,7,8-PeCDD |

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 17

File: 14APR10M

S: 16 I: 1 F: 3

Acquired: 14-APR-10 23:51:58

Total Concentration: 170

Unnamed Concentration: 105.693

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 35:59 | 1.85e+05 | 1.43e+05 | 1.29 y | 3.28e+05 | 27.9 | |
| 36:56 | 5.68e+04 | 4.36e+04 | 1.30 y | 1.00e+05 | 8.54 | |
| 37:22 | 4.23e+05 | 3.32e+05 | 1.28 y | 7.55e+05 | 64.2 | |
| 37:33 | 1.35e+04 | 1.07e+04 | 1.26 y | 2.42e+04 | 2.06 | |
| 38:27 | 7.88e+04 | 6.43e+04 | 1.23 y | 1.43e+05 | 11.1 | 1,2,3,4,7,8-HxCDD |
| 38:38 | 1.90e+05 | 1.46e+05 | 1.30 y | 3.36e+05 | 32.0 | 1,2,3,6,7,8-HxCDD |
| 38:56 | 1.93e+04 | 1.64e+04 | 1.18 y | 3.57e+04 | 3.04 | |
| 39:04 | 1.46e+05 | 1.09e+05 | 1.34 y | 2.55e+05 | 21.4 | 1,2,3,7,8,9-HxCDD |

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 17

File: 14APR10M

S: 16 I: 1 F: 4

Acquired: 14-APR-10 23:51:58

Total Concentration: 1730

Unnamed Concentration: 702.767

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:40 | 3.61e+06 | 3.83e+06 | 0.94 y | 7.44e+06 | 703 | |
| 44:03 | 5.29e+06 | 5.61e+06 | 0.94 y | 1.09e+07 | 1030 | 1,2,3,4,6,7,8-HpCDD |

Totals class: Total Tetra-Furans

Entry #: 42

Run: 17

File: 14APR10M

S: 16 I: 1 F: 1

Acquired: 14-APR-10 23:51:58

Total Concentration: 35.8

Unnamed Concentration: 35.792

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 23:41 | 1.58e+04 | 2.27e+04 | 0.70 y | 3.85e+04 | 1.58 | |
| 25:41 | 4.08e+04 | 6.18e+04 | 0.66 y | 1.03e+05 | 4.22 | |
| 27:46 | 1.91e+05 | 2.86e+05 | 0.67 y | 4.77e+05 | 19.6 | |
| 27:58 | 1.04e+05 | 1.48e+05 | 0.70 y | 2.52e+05 | 10.4 | |

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

Run: 17 File: 14APR10M S: 16 I: 1 F: 1
Acquired: 14-APR-10 23:51:58

Total Concentration: 15.2 Unnamed Concentration: 15.247

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 28:20 | 1.61e+05 | 9.52e+04 | 1.69 y | 2.56e+05 | 15.2 | |

Totals class: Total Penta-Furans

Entry #: 44

Run: 17

File: 14APR10M

S: 16 I: 1 F: 2

Acquired: 14-APR-10 23:51:58

Total Concentration: 89.7

Unnamed Concentration: 84.621

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-----------------|
| 30:07 | 1.46e+05 | 9.61e+04 | 1.52 y | 2.42e+05 | 14.4 | |
| 30:48 | 3.12e+04 | 2.02e+04 | 1.54 y | 5.14e+04 | 3.06 | |
| 31:22 | 2.08e+04 | 1.20e+04 | 1.74 y | 3.28e+04 | 1.90 | 1,2,3,7,8-PeCDF |
| 31:39 | 4.25e+05 | 2.54e+05 | 1.67 y | 6.80e+05 | 40.4 | |
| 31:59 | 1.31e+05 | 8.25e+04 | 1.59 y | 2.13e+05 | 12.7 | |
| 32:42 | 3.06e+04 | 2.08e+04 | 1.47 y | 5.14e+04 | 3.14 | 2,3,4,7,8-PeCDF |
| 32:45 | 2.14e+04 | 1.25e+04 | 1.71 y | 3.39e+04 | 2.02 | |
| 34:02 | 1.27e+05 | 7.58e+04 | 1.68 y | 2.03e+05 | 12.1 | |

Totals class: Total Hexa-Furans

Entry #: 45

Run: 17

File: 14APR10M

S: 16 I: 1 F: 3

Acquired: 14-APR-10 23:51:58

Total Concentration: 488

Unnamed Concentration: 415.181

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 35:07 | 2.20e+05 | 1.78e+05 | 1.23 y | 3.98e+05 | 23.9 | |
| 35:23 | 8.80e+05 | 7.21e+05 | 1.22 y | 1.60e+06 | 96.2 | |
| 35:58 | 2.13e+04 | 1.85e+04 | 1.15 y | 3.98e+04 | 2.39 | |
| 36:18 | 1.18e+06 | 9.79e+05 | 1.21 y | 2.16e+06 | 130 | |
| 36:36 | 3.71e+04 | 3.47e+04 | 1.07 y | 7.18e+04 | 4.31 | |
| 36:55 | 1.78e+04 | 1.49e+04 | 1.19 y | 3.27e+04 | 1.96 | |
| 37:04 | 3.54e+05 | 2.90e+05 | 1.22 y | 6.44e+05 | 38.1 | 1,2,3,4,7,8-HxCDF |
| 37:16 | 1.52e+05 | 1.23e+05 | 1.24 y | 2.75e+05 | 16.3 | 1,2,3,6,7,8-HxCDF |
| 38:00 | 1.43e+06 | 1.17e+06 | 1.22 y | 2.61e+06 | 157 | |
| 38:12 | 1.33e+05 | 1.05e+05 | 1.26 y | 2.38e+05 | 14.4 | 2,3,4,6,7,8-HxCDF |
| 39:41 | 3.52e+04 | 2.48e+04 | 1.42 y | 6.00e+04 | 3.67 | 1,2,3,7,8,9-HxCDF |

Totals class: Total Hepta-Furans

Entry #: 46

Run: 17

File: 14APR10M

S: 16 I: 1 F: 4

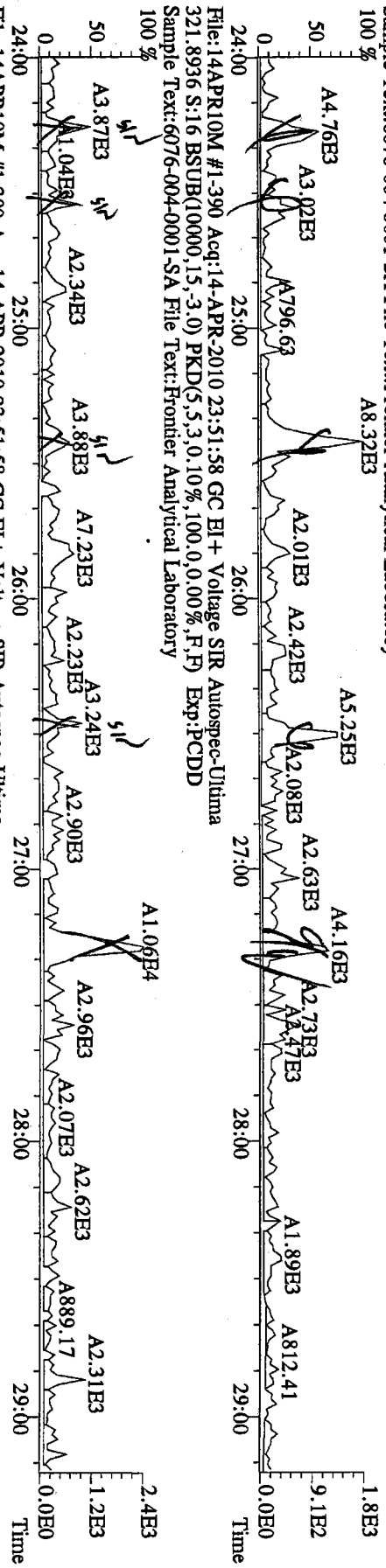
Acquired: 14-APR-10 23:51:58

Total Concentration: 733

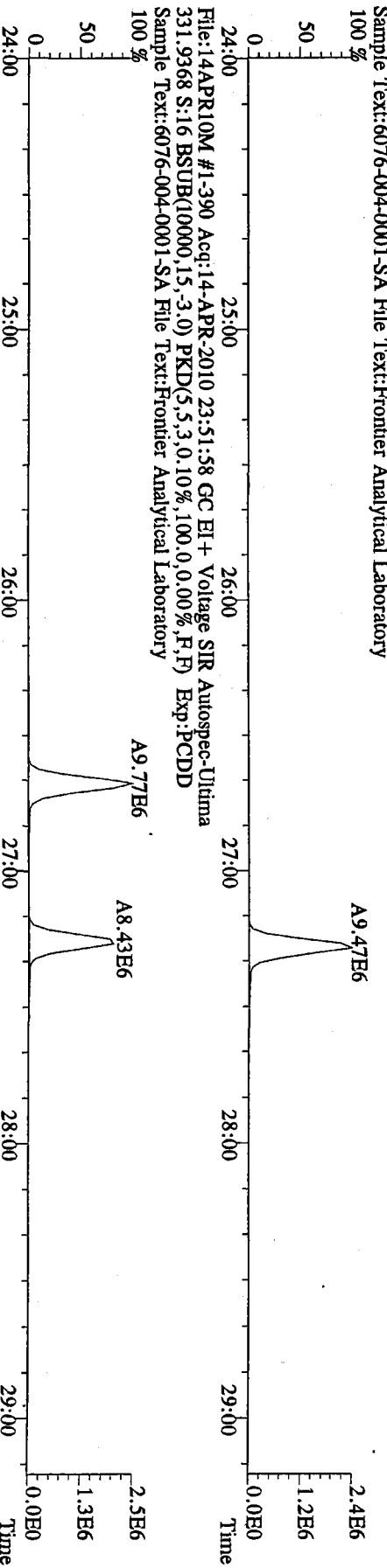
Unnamed Concentration: 481.518

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:09 | 1.72e+06 | 1.69e+06 | 1.02 y | 3.41e+06 | 231 | 1,2,3,4,6,7,8-HpCDF |
| 42:40 | 4.10e+04 | 4.06e+04 | 1.01 y | 8.16e+04 | 5.54 | |
| 42:57 | 3.53e+06 | 3.47e+06 | 1.02 y | 7.00e+06 | 476 | |
| 44:57 | 1.52e+05 | 1.53e+05 | 0.99 y | 3.05e+05 | 20.8 | 1,2,3,4,7,8,9-HpCDF |

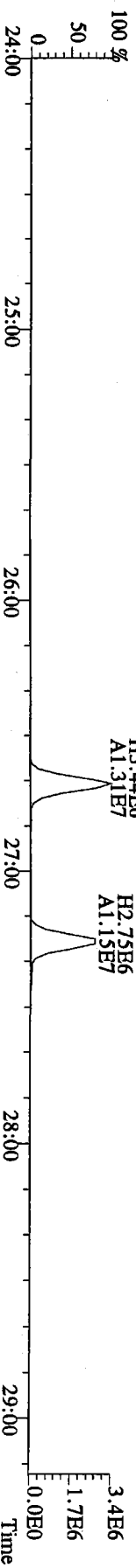
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



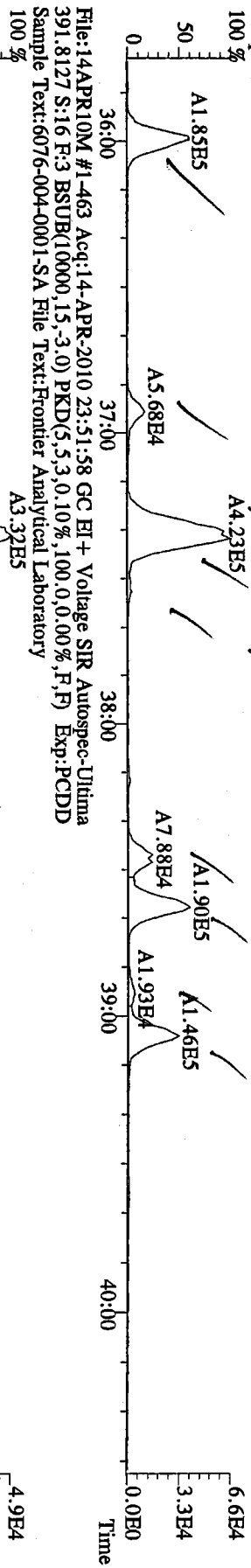
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



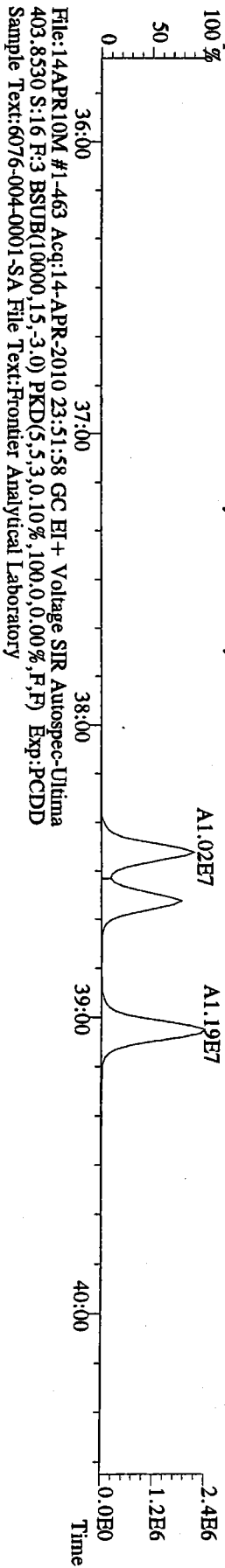
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



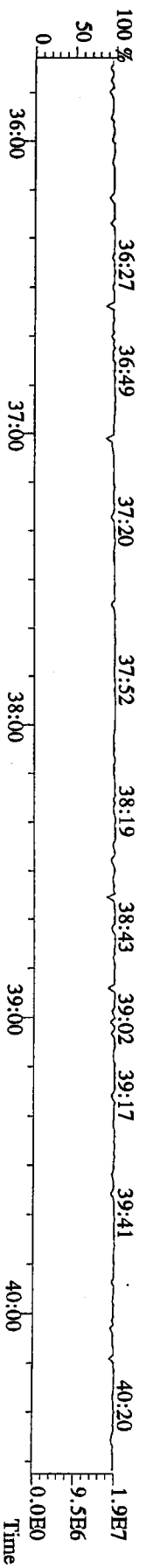
File:14APR10M #1-463 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Fronter Analytical Laboratory



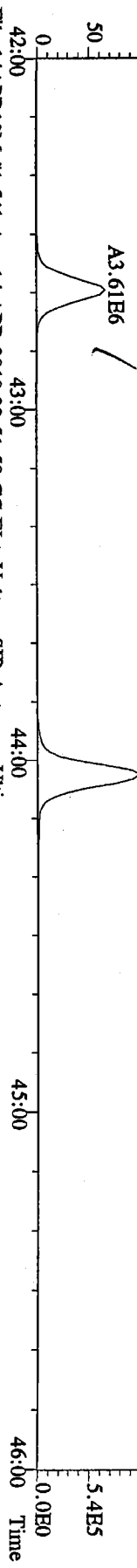
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401.8559 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Fronter Analytical Laboratory



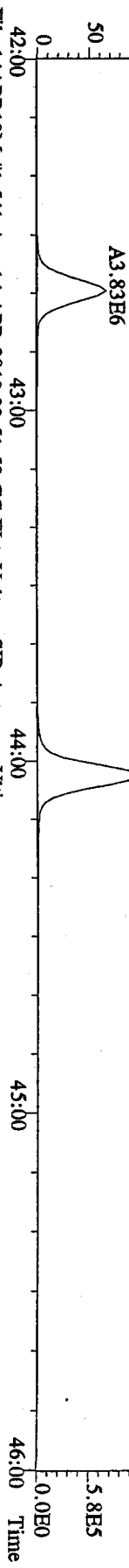
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380.9760 S:16 F:3 Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Fronter Analytical Laboratory



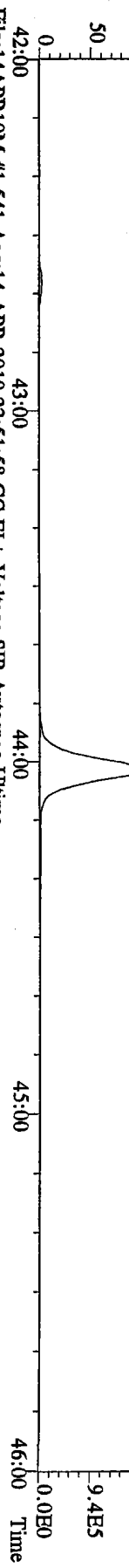
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



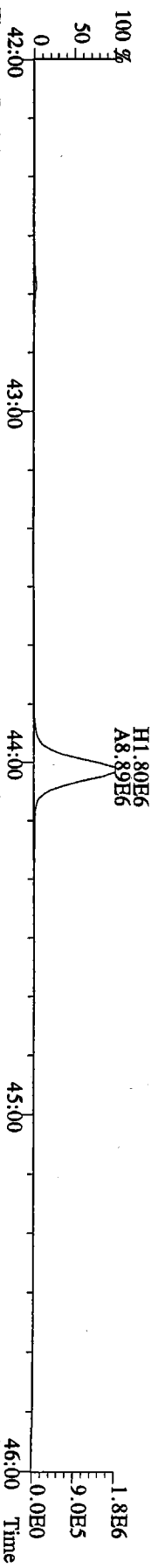
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 425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



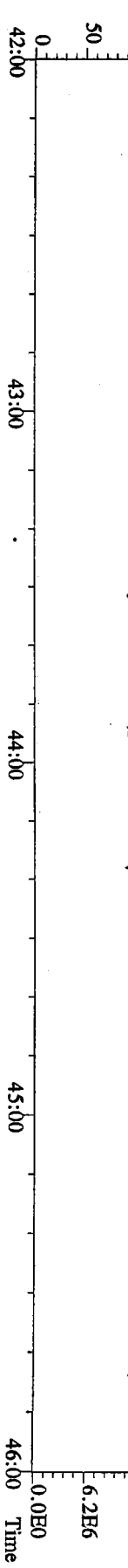
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
 435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



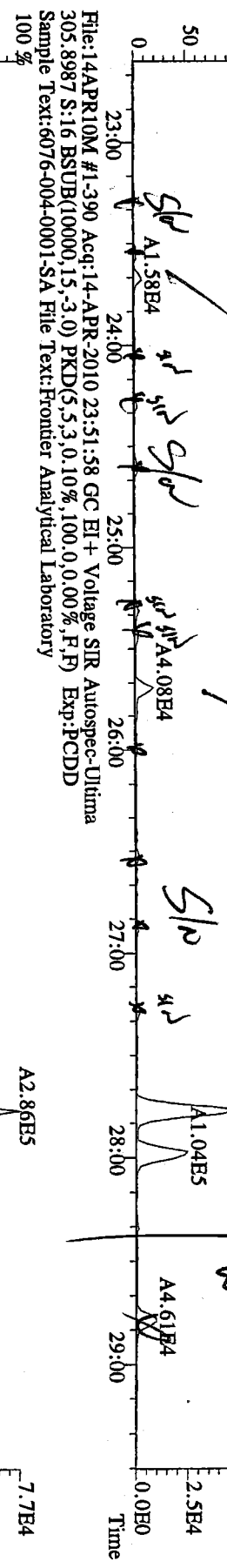
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
 437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



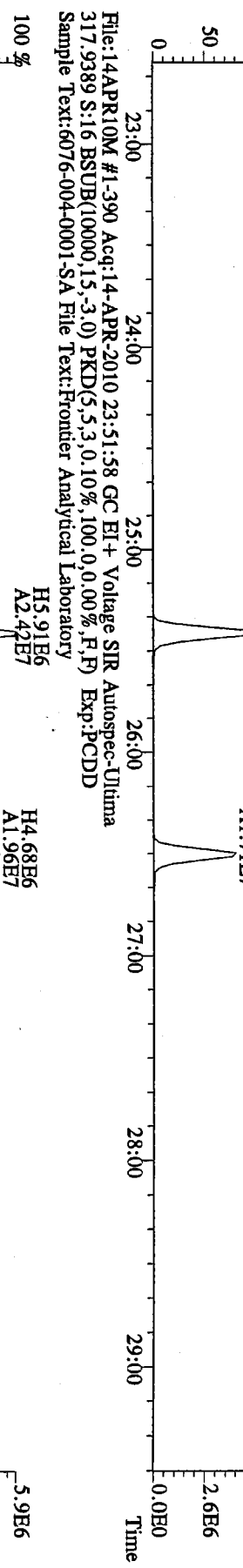
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 S:16 F:4 Exp:PCDD
 Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



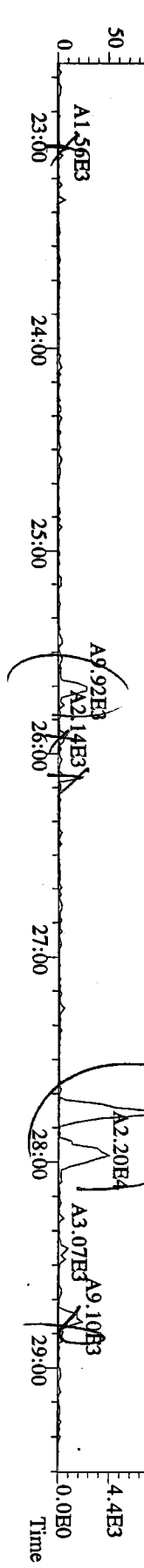
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:1.6 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



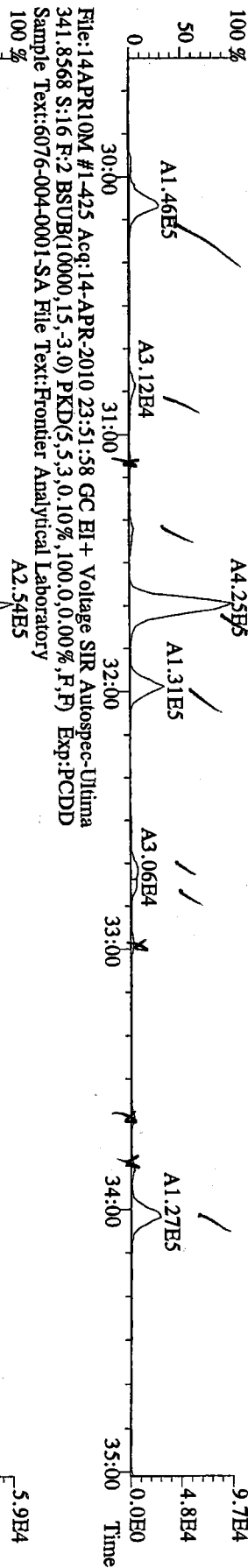
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:1.6 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



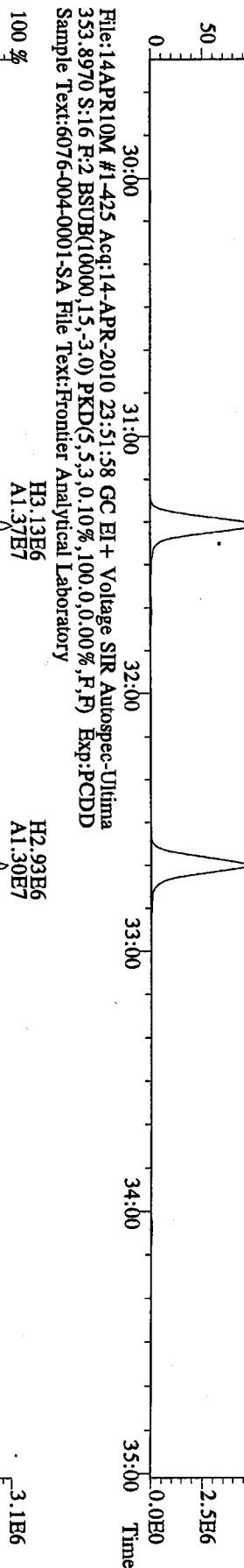
File:14APR10M #1-390 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
317.9389 S:1.6 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



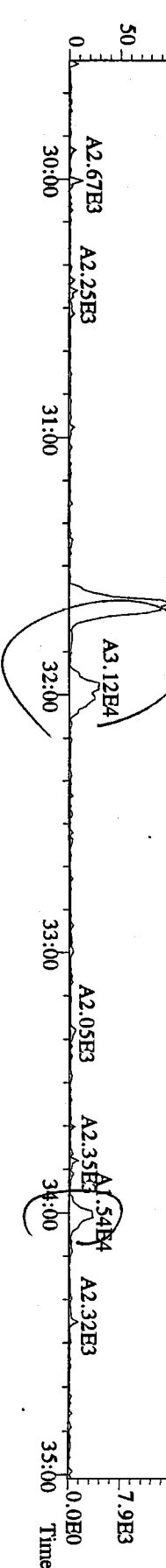
File:14APR10M #1-425 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-425 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory

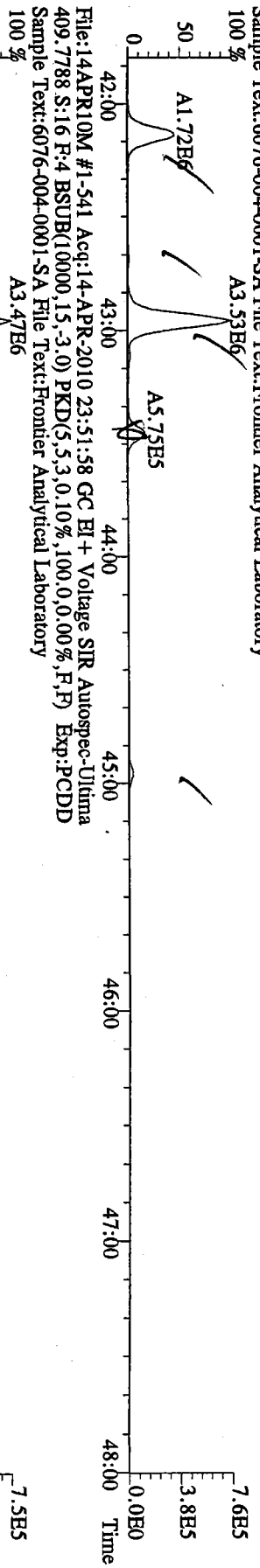


File:14APR10M #1-425 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory

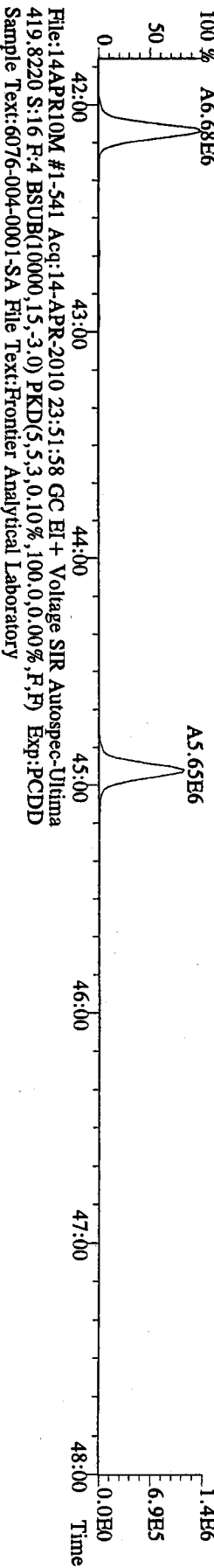


07:55:00

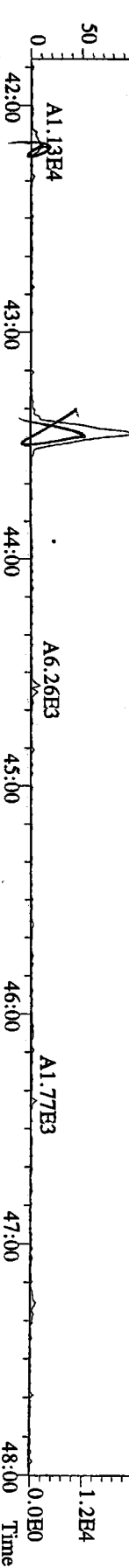
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



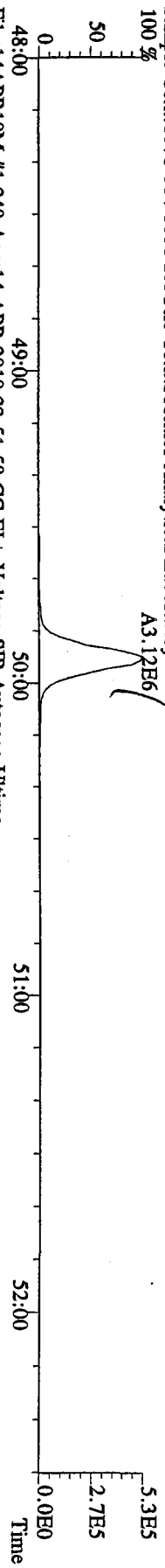
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



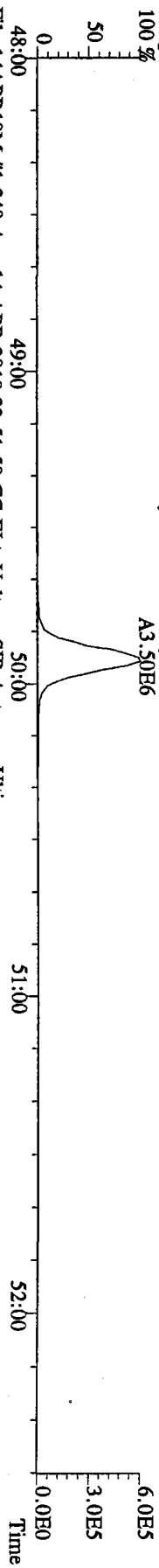
File:14APR10M #1-541 Acq:14-APR-2010 23:51:58 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



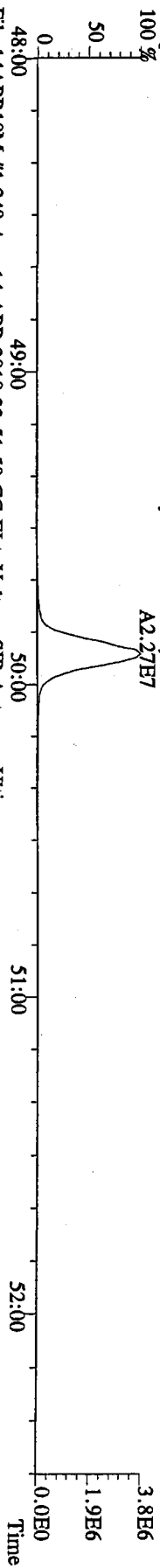
File:14APR10M #1-348 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



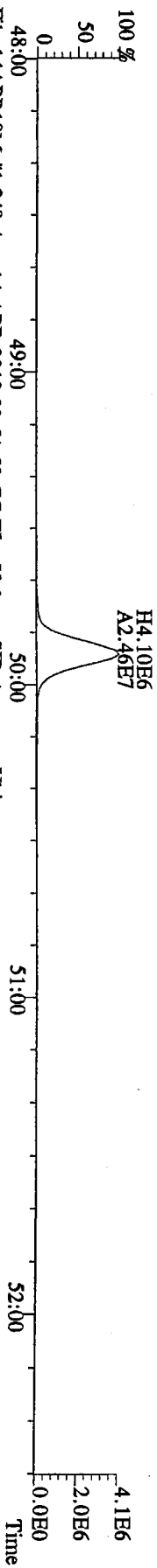
File:14APR10M #1-348 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



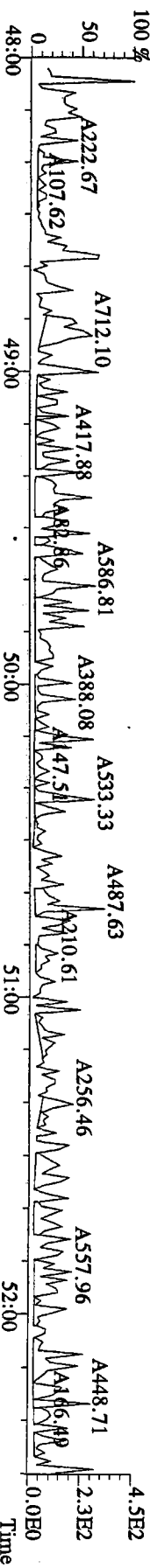
File:14APR10M #1-348 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 23:51:58 GC EI + Voltage SIR Autospec-Ultima
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6076-004-0001-SA File Text:Frontier Analytical Laboratory



Initial Calibration Results

Frontier Analytical Laboratory

Data Filename: 14APR10M

Analyte: PCDDFAL3-4-14-10

Cal: PCDDFAL3-4-14-10

| Name | RRF | S. D. | %RSD | S1 RRF#1 | S2 RRF#2 | S3 RRF#3 | S4 RRF#4 | S5 RRF#5 | S6 RRF#6 |
|--------------------------|------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2,3,7,8-TCDD | 1.12 | 0.0847 | 7.56 % | 1.15 | 1.04 | 1.00 | 1.15 | 1.15 | 1.23 |
| 1,2,3,7,8-PeCDD | 1.07 | 0.0781 | 7.30 % | 0.99 | 0.99 | 1.04 | 1.08 | 1.16 | 1.16 |
| 1,2,3,4,7,8-HxCDD | 1.39 | 0.0866 | 6.22 % | 1.31 | 1.31 | 1.36 | 1.39 | 1.49 | 1.50 |
| 1,2,3,6,7,8-HxCDD | 1.36 | 0.0973 | 7.17 % | 1.23 | 1.27 | 1.35 | 1.37 | 1.46 | 1.47 |
| 1,2,3,7,8,9-HxCDD | 1.40 | 0.103 | 7.36 % | 1.28 | 1.30 | 1.39 | 1.41 | 1.51 | 1.52 |
| 1,2,3,4,6,7,8-HpCDD | 1.14 | 0.0780 | 6.86 % | 1.07 | 1.05 | 1.09 | 1.15 | 1.22 | 1.24 |
| OCDD | 1.22 | 0.0838 | 6.89 % | 1.14 | 1.14 | 1.16 | 1.23 | 1.31 | 1.32 |
| 2,3,7,8-TCDF | 1.29 | 0.0588 | 4.57 % | 1.22 | 1.33 | 1.24 | 1.25 | 1.31 | 1.37 |
| 1,2,3,7,8-PeCDF | 0.93 | 0.0739 | 7.98 % | 0.84 | 0.86 | 0.88 | 0.97 | 0.99 | 1.02 |
| 2,3,4,7,8-PeCDF | 0.93 | 0.0826 | 8.87 % | 0.84 | 0.84 | 0.90 | 0.96 | 1.01 | 1.03 |
| 1,2,3,4,7,8-HxCDF | 1.07 | 0.0869 | 8.15 % | 1.00 | 0.96 | 1.03 | 1.07 | 1.16 | 1.18 |
| 1,2,3,6,7,8-HxCDF | 0.97 | 0.0861 | 8.86 % | 0.87 | 0.90 | 0.93 | 1.00 | 1.05 | 1.08 |
| 2,3,4,6,7,8-HxCDF | 1.04 | 0.0851 | 8.16 % | 0.97 | 0.95 | 1.01 | 1.06 | 1.13 | 1.16 |
| 1,2,3,7,8,9-HxCDF | 1.15 | 0.100 | 8.75 % | 1.04 | 1.05 | 1.11 | 1.16 | 1.26 | 1.27 |
| 1,2,3,4,6,7,8-HpCDF | 1.37 | 0.111 | 8.15 % | 1.28 | 1.25 | 1.29 | 1.40 | 1.48 | 1.51 |
| 1,2,3,4,7,8,9-HpCDF | 1.62 | 0.133 | 8.23 % | 1.52 | 1.46 | 1.54 | 1.62 | 1.77 | 1.78 |
| OCDF | 0.85 | 0.0711 | 8.39 % | 0.77 | 0.79 | 0.81 | 0.86 | 0.92 | 0.94 |
| 13C-2,3,7,8-TCDD | 0.98 | 0.0214 | 2.18 % | 0.98 | 0.96 | 0.99 | 0.96 | 1.00 | 1.00 |
| 13C-1,2,3,7,8-PeCDD | 1.14 | 0.0377 | 3.32 % | 1.13 | 1.10 | 1.11 | 1.12 | 1.16 | 1.20 |
| 13C-1,2,3,4,7,8-HxCDD | 1.00 | 0.0241 | 2.40 % | 1.02 | 1.02 | 0.96 | 1.03 | 1.00 | 1.01 |
| 13C-1,2,3,6,7,8-HxCDD | 0.89 | 0.0134 | 1.51 % | 0.91 | 0.89 | 0.89 | 0.89 | 0.89 | 0.87 |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.01 | 0.0219 | 2.16 % | 1.01 | 1.01 | 0.99 | 0.99 | 1.03 | 1.04 |
| 13C-OCDD | 0.75 | 0.0428 | 5.70 % | 0.73 | 0.74 | 0.71 | 0.73 | 0.77 | 0.83 |
| 13C-2,3,7,8-TCDF | 0.93 | 0.0375 | 4.05 % | 0.93 | 0.88 | 0.91 | 0.97 | 0.90 | 0.97 |
| 13C-1,2,3,7,8-PeCDF | 0.93 | 0.0524 | 5.66 % | 0.92 | 0.87 | 0.89 | 0.94 | 0.91 | 1.02 |
| 13C-2,3,4,7,8-PeCDF | 0.87 | 0.0417 | 4.77 % | 0.86 | 0.83 | 0.85 | 0.88 | 0.87 | 0.95 |
| 13C-1,2,3,4,7,8-HxCDF | 1.82 | 0.0584 | 3.21 % | 1.84 | 1.88 | 1.82 | 1.87 | 1.80 | 1.72 |
| 13C-1,2,3,6,7,8-HxCDF | 2.01 | 0.0642 | 3.20 % | 2.05 | 2.06 | 2.02 | 2.04 | 1.99 | 1.89 |
| 13C-2,3,4,6,7,8-HxCDF | 1.77 | 0.0378 | 2.13 % | 1.78 | 1.80 | 1.78 | 1.81 | 1.77 | 1.70 |
| 13C-1,2,3,7,8,9-HxCDF | 1.57 | 0.0141 | 0.902 % | 1.56 | 1.56 | 1.55 | 1.55 | 1.59 | 1.58 |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.24 | 0.00688 | 0.553 % | 1.24 | 1.24 | 1.24 | 1.24 | 1.26 | 1.24 |
| 13C-1,2,3,4,7,8,9-HpCDF | 0.99 | 0.0338 | 3.40 % | 0.98 | 0.98 | 0.96 | 0.98 | 1.01 | 1.05 |
| 13C-OCDF | 1.32 | 0.0597 | 4.54 % | 1.28 | 1.28 | 1.28 | 1.28 | 1.35 | 1.43 |
| 37Cl-2,3,7,8-TCDD | 1.10 | 0.0835 | 7.58 % | 1.05 | 1.07 | 1.02 | 1.07 | 1.16 | 1.24 |
| 13C-1,2,3,4-TCDD | - | - | - % | - | - | - | - | - | - |
| 13C-1,2,3,4-TCDF | - | - | - % | - | - | - | - | - | - |
| 13C-1,2,3,7,8,9-HxCDD | - | - | - % | - | - | - | - | - | - |
| Total Tetra-Dioxins | 1.12 | 0.0847 | 7.56 % | 1.15 | 1.04 | 1.00 | 1.15 | 1.15 | 1.23 |
| Total Penta-Dioxins | 1.07 | 0.0781 | 7.30 % | 0.99 | 0.99 | 1.04 | 1.08 | 1.16 | 1.16 |
| Total Hexa-Dioxins | 1.38 | 0.0951 | 6.87 % | 1.27 | 1.29 | 1.37 | 1.39 | 1.49 | 1.50 |
| Total Hepta-Dioxins | 1.14 | 0.0780 | 6.86 % | 1.07 | 1.05 | 1.09 | 1.15 | 1.22 | 1.24 |
| Total Tetra-Furans | 1.29 | 0.0588 | 4.57 % | 1.22 | 1.33 | 1.24 | 1.25 | 1.31 | 1.37 |
| 1st Fn. Tot Penta-Furans | 0.93 | 0.0779 | 8.38 % | 0.84 | 0.85 | 0.89 | 0.97 | 1.00 | 1.02 |
| Total Penta-Furans | 0.93 | 0.0779 | 8.38 % | 0.84 | 0.85 | 0.89 | 0.97 | 1.00 | 1.02 |
| Total Hexa-Furans | 1.05 | 0.0895 | 8.50 % | 0.96 | 0.96 | 1.01 | 1.07 | 1.14 | 1.17 |
| Total Hepta-Furans | 1.48 | 0.122 | 8.28 % | 1.38 | 1.34 | 1.40 | 1.50 | 1.61 | 1.63 |

Analyst: J

Date: 4/15/10

Run #2 Filename 14APR10M
Client ID: ST041410M1

S: 2 Acquired: 14-APR-10 10:57:09 Cal: PCDDFAL3-4-14-10
Analyte: FAL ID: 1613 CS1 090918H

| Typ | Name | Amount | Resp | RA | RT | RF | RRF |
|-----|-------|--------------------------|--------|----------|--------|-------|--------------|
| 1 | Unk | 2,3,7,8-TCDD | 0.50 | 8.32e+04 | 0.87 y | 27:18 | - 1.04 y |
| 2 | Unk | 1,2,3,7,8-PeCDD | 2.50 | 4.56e+05 | 1.60 y | 33:07 | - 0.995 y |
| 3 | Unk | 1,2,3,4,7,8-HxCDD | 2.50 | 4.75e+05 | 1.31 y | 38:29 | - 1.31 y |
| 4 | Unk | 1,2,3,6,7,8-HxCDD | 2.50 | 4.03e+05 | 1.30 y | 38:39 | - 1.27 y |
| 5 | Unk | 1,2,3,7,8,9-HxCDD | 2.50 | 4.43e+05 | 1.28 y | 39:04 | - 1.30 y |
| 6 | Unk | 1,2,3,4,6,7,8-HpCDD | 2.50 | 3.82e+05 | 0.90 y | 44:03 | - 1.05 y |
| 7 | Unk | OCDD | 5.00 | 6.06e+05 | 0.94 y | 49:34 | - 1.14 y |
| 8 | Unk | 2,3,7,8-TCDF | 0.50 | 2.12e+05 | 0.66 y | 26:33 | - 1.33 y |
| 9 | Unk | 1,2,3,7,8-PeCDF | 2.50 | 6.77e+05 | 1.67 y | 31:23 | - 0.859 y |
| 10 | Unk | 2,3,4,7,8-PeCDF | 2.50 | 6.30e+05 | 1.58 y | 32:42 | - 0.843 y |
| 11 | Unk | 1,2,3,4,7,8-HxCDF | 2.50 | 6.48e+05 | 1.21 y | 37:05 | - 0.964 y |
| 12 | Unk | 1,2,3,6,7,8-HxCDF | 2.50 | 6.64e+05 | 1.21 y | 37:17 | - 0.900 y |
| 13 | Unk | 2,3,4,6,7,8-HxCDF | 2.50 | 6.09e+05 | 1.23 y | 38:13 | - 0.947 y |
| 14 | Unk | 1,2,3,7,8,9-HxCDF | 2.50 | 5.86e+05 | 1.24 y | 39:39 | - 1.05 y |
| 15 | Unk | 1,2,3,4,6,7,8-HpCDF | 2.50 | 5.54e+05 | 1.01 y | 42:09 | - 1.25 y |
| 16 | Unk | 1,2,3,4,7,8,9-HpCDF | 2.50 | 5.13e+05 | 0.99 y | 44:58 | - 1.46 y |
| 17 | Unk | OCDF | 5.00 | 7.25e+05 | 0.93 y | 49:56 | - 0.789 y |
| 18 | IS/RT | 13C-2,3,7,8-TCDD | 100.00 | 1.60e+07 | 0.74 y | 27:17 | - 0.956 y |
| 19 | IS | 13C-1,2,3,7,8-PeCDD | 100.00 | 1.83e+07 | 1.64 y | 33:06 | - 1.10 y |
| 20 | IS | 13C-1,2,3,4,7,8-HxCDD | 100.00 | 1.45e+07 | 1.30 y | 38:27 | - 1.02 y |
| 21 | IS | 13C-1,2,3,6,7,8-HxCDD | 100.00 | 1.27e+07 | 1.29 y | 38:37 | - 0.888 y |
| 22 | IS | 13C-1,2,3,4,6,7,8-HpCDD | 100.00 | 1.45e+07 | 1.05 y | 44:02 | - 1.01 y |
| 23 | IS | 13C-OCDD | 200.00 | 2.12e+07 | 0.96 y | 49:33 | - 0.742 y |
| 24 | IS | 13C-2,3,7,8-TCDF | 100.00 | 3.17e+07 | 0.88 y | 26:32 | - 0.877 y |
| 25 | IS | 13C-1,2,3,7,8-PeCDF | 100.00 | 3.15e+07 | 1.65 y | 31:22 | - 0.871 y |
| 26 | IS | 13C-2,3,4,7,8-PeCDF | 100.00 | 2.99e+07 | 1.66 y | 32:42 | - 0.826 y |
| 27 | IS | 13C-1,2,3,4,7,8-HxCDF | 100.00 | 2.69e+07 | 0.47 y | 37:03 | - 1.88 y |
| 28 | IS | 13C-1,2,3,6,7,8-HxCDF | 100.00 | 2.95e+07 | 0.47 y | 37:15 | - 2.06 y |
| 29 | IS | 13C-2,3,4,6,7,8-HxCDF | 100.00 | 2.57e+07 | 0.48 y | 38:12 | - 1.80 y |
| 30 | IS | 13C-1,2,3,7,8,9-HxCDF | 100.00 | 2.24e+07 | 0.48 y | 39:38 | - 1.56 y |
| 31 | IS | 13C-1,2,3,4,6,7,8-HpCDF | 100.00 | 1.78e+07 | 0.46 y | 42:08 | - 1.24 y |
| 32 | IS | 13C-1,2,3,4,7,8,9-HpCDF | 100.00 | 1.40e+07 | 0.47 y | 44:57 | - 0.980 y |
| 33 | IS | 13C-OCDF | 200.00 | 3.67e+07 | 0.91 y | 49:55 | - 1.28 y |
| 34 | C/Up | 37Cl-2,3,7,8-TCDD | 0.50 | 8.94e+04 | | 27:18 | - 1.07 y |
| 35 | RS | 13C-1,2,3,4-TCDD | 100.00 | 1.67e+07 | 0.73 y | 26:42 | 1.67e+05 - n |
| 36 | RS | 13C-1,2,3,4-TCDF | 100.00 | 3.62e+07 | 0.87 y | 25:26 | 3.62e+05 - n |
| 37 | RS/RT | 13C-1,2,3,7,8,9-HxCDD | 100.00 | 1.43e+07 | 1.31 y | 39:03 | 1.43e+05 - n |
| 38 | Tot | Total Tetra-Dioxins | 0.00 | - | - n | - | - 1.04 y |
| 39 | Tot | Total Penta-Dioxins | 0.00 | - | - n | - | - 0.995 y |
| 40 | Tot | Total Hexa-Dioxins | 0.00 | - | - n | - | - 1.29 y |
| 41 | Tot | Total Hepta-Dioxins | 0.00 | - | - n | - | - 1.05 y |
| 42 | Tot | Total Tetra-Furans | 0.00 | - | - n | - | - 1.33 y |
| 43 | Tot | 1st Fn. Tot Penta-Furans | 0.00 | - | - n | - | - 0.851 y |
| 44 | Tot | Total Penta-Furans | 0.00 | - | - n | - | - 0.851 y |
| 45 | Tot | Total Hexa-Furans | 0.00 | - | - n | - | - 0.960 y |
| 46 | Tot | Total Hepta-Furans | 0.00 | - | - n | - | - 1.34 y |

Analyst: 

Date: 4/15/10

Run #3 Filename 14APR10M
Client ID: ST041410M2

S: 3

Acquired: 14-APR-10 11:52:28

Cal: PCDDFAL3-4-14-10

Analyte:

FAL ID: 1613 CS2 090918I

| Typ | Name | Amount | Resp | RA | RT | RF | RRF |
|-----|-------|--------------------------|--------|----------|--------|-------|--------------|
| 1 | Unk | 2,3,7,8-TCDD | 2.00 | 3.32e+05 | 0.79 y | 27:18 | - 0.998 y |
| 2 | Unk | 1,2,3,7,8-PeCDD | 10.00 | 1.94e+06 | 1.56 y | 33:07 | - 1.04 y |
| 3 | Unk | 1,2,3,4,7,8-HxCDD | 10.00 | 2.00e+06 | 1.25 y | 38:29 | - 1.36 y |
| 4 | Unk | 1,2,3,6,7,8-HxCDD | 10.00 | 1.84e+06 | 1.28 y | 38:39 | - 1.35 y |
| 5 | Unk | 1,2,3,7,8,9-HxCDD | 10.00 | 1.96e+06 | 1.28 y | 39:05 | - 1.39 y |
| 6 | Unk | 1,2,3,4,6,7,8-HpCDD | 10.00 | 1.64e+06 | 0.91 y | 44:03 | - 1.09 y |
| 7 | Unk | OCDD | 20.00 | 2.51e+06 | 0.91 y | 49:33 | - 1.16 y |
| 8 | Unk | 2,3,7,8-TCDF | 2.00 | 8.13e+05 | 0.67 y | 26:33 | - 1.24 y |
| 9 | Unk | 1,2,3,7,8-PeCDF | 10.00 | 2.86e+06 | 1.68 y | 31:23 | - 0.885 y |
| 10 | Unk | 2,3,4,7,8-PeCDF | 10.00 | 2.78e+06 | 1.69 y | 32:42 | - 0.902 y |
| 11 | Unk | 1,2,3,4,7,8-HxCDF | 10.00 | 2.85e+06 | 1.24 y | 37:05 | - 1.03 y |
| 12 | Unk | 1,2,3,6,7,8-HxCDF | 10.00 | 2.87e+06 | 1.26 y | 37:17 | - 0.931 y |
| 13 | Unk | 2,3,4,6,7,8-HxCDF | 10.00 | 2.73e+06 | 1.23 y | 38:13 | - 1.01 y |
| 14 | Unk | 1,2,3,7,8,9-HxCDF | 10.00 | 2.63e+06 | 1.21 y | 39:38 | - 1.11 y |
| 15 | Unk | 1,2,3,4,6,7,8-HpCDF | 10.00 | 2.44e+06 | 1.01 y | 42:09 | - 1.29 y |
| 16 | Unk | 1,2,3,4,7,8,9-HpCDF | 10.00 | 2.25e+06 | 0.99 y | 44:58 | - 1.54 y |
| 17 | Unk | OCDF | 20.00 | 3.14e+06 | 0.91 y | 49:56 | - 0.807 y |
| 18 | IS/RT | 13C-2,3,7,8-TCDD | 100.00 | 1.66e+07 | 0.73 y | 27:17 | - 0.988 y |
| 19 | IS | 13C-1,2,3,7,8-PeCDD | 100.00 | 1.87e+07 | 1.62 y | 33:06 | - 1.11 y |
| 20 | IS | 13C-1,2,3,4,7,8-HxCDD | 100.00 | 1.46e+07 | 1.29 y | 38:27 | - 0.961 y |
| 21 | IS | 13C-1,2,3,6,7,8-HxCDD | 100.00 | 1.36e+07 | 1.31 y | 38:37 | - 0.895 y |
| 22 | IS | 13C-1,2,3,4,6,7,8-HpCDD | 100.00 | 1.51e+07 | 1.04 y | 44:02 | - 0.992 y |
| 23 | IS | 13C-OCDD | 200.00 | 2.16e+07 | 0.96 y | 49:33 | - 0.709 y |
| 24 | IS | 13C-2,3,7,8-TCDF | 100.00 | 3.28e+07 | 0.87 y | 26:32 | - 0.905 y |
| 25 | IS | 13C-1,2,3,7,8-PeCDF | 100.00 | 3.24e+07 | 1.67 y | 31:22 | - 0.892 y |
| 26 | IS | 13C-2,3,4,7,8-PeCDF | 100.00 | 3.08e+07 | 1.63 y | 32:41 | - 0.850 y |
| 27 | IS | 13C-1,2,3,4,7,8-HxCDF | 100.00 | 2.77e+07 | 0.47 y | 37:03 | - 1.82 y |
| 28 | IS | 13C-1,2,3,6,7,8-HxCDF | 100.00 | 3.08e+07 | 0.48 y | 37:16 | - 2.02 y |
| 29 | IS | 13C-2,3,4,6,7,8-HxCDF | 100.00 | 2.71e+07 | 0.48 y | 38:12 | - 1.78 y |
| 30 | IS | 13C-1,2,3,7,8,9-HxCDF | 100.00 | 2.36e+07 | 0.47 y | 39:38 | - 1.55 y |
| 31 | IS | 13C-1,2,3,4,6,7,8-HpCDF | 100.00 | 1.88e+07 | 0.46 y | 42:08 | - 1.24 y |
| 32 | IS | 13C-1,2,3,4,7,8,9-HpCDF | 100.00 | 1.46e+07 | 0.47 y | 44:57 | - 0.955 y |
| 33 | IS | 13C-OCDF | 200.00 | 3.89e+07 | 0.92 y | 49:54 | - 1.28 y |
| 34 | C/Up | 37Cl-2,3,7,8-TCDD | 2.00 | 3.43e+05 | | 27:18 | - 1.02 y |
| 35 | RS | 13C-1,2,3,4-TCDD | 100.00 | 1.68e+07 | 0.74 y | 26:42 | 1.68e+05 - n |
| 36 | RS | 13C-1,2,3,4-TCDF | 100.00 | 3.62e+07 | 0.88 y | 25:27 | 3.62e+05 - n |
| 37 | RS/RT | 13C-1,2,3,7,8,9-HxCDD | 100.00 | 1.52e+07 | 1.29 y | 39:03 | 1.52e+05 - n |
| 38 | Tot | Total Tetra-Dioxins | 0.00 | - | - n | - | - 0.998 y |
| 39 | Tot | Total Penta-Dioxins | 0.00 | - | - n | - | - 1.04 y |
| 40 | Tot | Total Hexa-Dioxins | 0.00 | - | - n | - | - 1.37 y |
| 41 | Tot | Total Hepta-Dioxins | 0.00 | - | - n | - | - 1.09 y |
| 42 | Tot | Total Tetra-Furans | 0.00 | - | - n | - | - 1.24 y |
| 43 | Tot | 1st Fn. Tot Penta-Furans | 0.00 | - | - n | - | - 0.893 y |
| 44 | Tot | Total Penta-Furans | 0.00 | - | - n | - | - 0.893 y |
| 45 | Tot | Total Hexa-Furans | 0.00 | - | - n | - | - 1.01 y |
| 46 | Tot | Total Hepta-Furans | 0.00 | - | - n | - | - 1.40 y |

Analyst: 

Date: 4/15/10

Run #4 Filename 14APR10M
Client ID: ST041410M3

S: 4 Acquired: 14-APR-10 12:47:47 Cal: PCDDFAL3-4-14-10
Analyte: FAL ID: 1613 CS3 090918J

| Typ | Name | Amount | Resp | RA | RT | RF | RRF |
|-----|-------|--------------------------|--------|----------|--------|-------|--------------|
| 1 | Unk | 2,3,7,8-TCDD | 10.00 | 1.98e+06 | 0.82 y | 27:19 | - 1.15 y |
| 2 | Unk | 1,2,3,7,8-PeCDD | 50.00 | 1.08e+07 | 1.55 y | 33:07 | - 1.08 y |
| 3 | Unk | 1,2,3,4,7,8-HxCDD | 50.00 | 1.15e+07 | 1.28 y | 38:29 | - 1.39 y |
| 4 | Unk | 1,2,3,6,7,8-HxCDD | 50.00 | 9.78e+06 | 1.30 y | 38:38 | - 1.37 y |
| 5 | Unk | 1,2,3,7,8,9-HxCDD | 50.00 | 1.09e+07 | 1.30 y | 39:05 | - 1.41 y |
| 6 | Unk | 1,2,3,4,6,7,8-HpCDD | 50.00 | 9.14e+06 | 0.96 y | 44:04 | - 1.15 y |
| 7 | Unk | OCDD | 100.00 | 1.43e+07 | 0.92 y | 49:35 | - 1.23 y |
| 8 | Unk | 2,3,7,8-TCDF | 10.00 | 4.48e+06 | 0.67 y | 26:34 | - 1.25 y |
| 9 | Unk | 1,2,3,7,8-PeCDF | 50.00 | 1.68e+07 | 1.68 y | 31:23 | - 0.967 y |
| 10 | Unk | 2,3,4,7,8-PeCDF | 50.00 | 1.57e+07 | 1.69 y | 32:43 | - 0.964 y |
| 11 | Unk | 1,2,3,4,7,8-HxCDF | 50.00 | 1.61e+07 | 1.25 y | 37:05 | - 1.07 y |
| 12 | Unk | 1,2,3,6,7,8-HxCDF | 50.00 | 1.62e+07 | 1.25 y | 37:17 | - 0.995 y |
| 13 | Unk | 2,3,4,6,7,8-HxCDF | 50.00 | 1.54e+07 | 1.25 y | 38:13 | - 1.06 y |
| 14 | Unk | 1,2,3,7,8,9-HxCDF | 50.00 | 1.45e+07 | 1.28 y | 39:39 | - 1.16 y |
| 15 | Unk | 1,2,3,4,6,7,8-HpCDF | 50.00 | 1.39e+07 | 1.01 y | 42:09 | - 1.40 y |
| 16 | Unk | 1,2,3,4,7,8,9-HpCDF | 50.00 | 1.27e+07 | 1.03 y | 44:59 | - 1.62 y |
| 17 | Unk | OCDF | 100.00 | 1.77e+07 | 0.91 y | 49:56 | - 0.862 y |
| 18 | IS/RT | 13C-2,3,7,8-TCDD | 100.00 | 1.73e+07 | 0.74 y | 27:18 | - 0.956 y |
| 19 | IS | 13C-1,2,3,7,8-PeCDD | 100.00 | 2.02e+07 | 1.63 y | 33:06 | - 1.12 y |
| 20 | IS | 13C-1,2,3,4,7,8-HxCDD | 100.00 | 1.65e+07 | 1.31 y | 38:27 | - 1.03 y |
| 21 | IS | 13C-1,2,3,6,7,8-HxCDD | 100.00 | 1.43e+07 | 1.30 y | 38:37 | - 0.894 y |
| 22 | IS | 13C-1,2,3,4,6,7,8-HpCDD | 100.00 | 1.58e+07 | 1.03 y | 44:02 | - 0.989 y |
| 23 | IS | 13C-OCDD | 200.00 | 2.33e+07 | 0.94 y | 49:33 | - 0.728 y |
| 24 | IS | 13C-2,3,7,8-TCDF | 100.00 | 3.58e+07 | 0.86 y | 26:33 | - 0.970 y |
| 25 | IS | 13C-1,2,3,7,8-PeCDF | 100.00 | 3.48e+07 | 1.65 y | 31:22 | - 0.944 y |
| 26 | IS | 13C-2,3,4,7,8-PeCDF | 100.00 | 3.25e+07 | 1.65 y | 32:41 | - 0.882 y |
| 27 | IS | 13C-1,2,3,4,7,8-HxCDF | 100.00 | 3.00e+07 | 0.47 y | 37:04 | - 1.87 y |
| 28 | IS | 13C-1,2,3,6,7,8-HxCDF | 100.00 | 3.26e+07 | 0.47 y | 37:15 | - 2.04 y |
| 29 | IS | 13C-2,3,4,6,7,8-HxCDF | 100.00 | 2.91e+07 | 0.48 y | 38:12 | - 1.81 y |
| 30 | IS | 13C-1,2,3,7,8,9-HxCDF | 100.00 | 2.49e+07 | 0.47 y | 39:38 | - 1.55 y |
| 31 | IS | 13C-1,2,3,4,6,7,8-HpCDF | 100.00 | 1.98e+07 | 0.46 y | 42:08 | - 1.24 y |
| 32 | IS | 13C-1,2,3,4,7,8,9-HpCDF | 100.00 | 1.57e+07 | 0.46 y | 44:57 | - 0.979 y |
| 33 | IS | 13C-OCDF | 200.00 | 4.11e+07 | 0.91 y | 49:55 | - 1.28 y |
| 34 | C/Up | 37Cl-2,3,7,8-TCDD | 10.00 | 1.93e+06 | | 27:19 | - 1.07 y |
| 35 | RS | 13C-1,2,3,4-TCDD | 100.00 | 1.81e+07 | 0.75 y | 26:42 | 1.81e+05 - n |
| 36 | RS | 13C-1,2,3,4-TCDF | 100.00 | 3.69e+07 | 0.88 y | 25:27 | 3.69e+05 - n |
| 37 | RS/RT | 13C-1,2,3,7,8,9-HxCDD | 100.00 | 1.60e+07 | 1.32 y | 39:04 | 1.60e+05 - n |
| 38 | Tot | Total Tetra-Dioxins | 0.00 | - | - n | - | - 1.15 y |
| 39 | Tot | Total Penta-Dioxins | 0.00 | - | - n | - | - 1.08 y |
| 40 | Tot | Total Hexa-Dioxins | 0.00 | - | - n | - | - 1.39 y |
| 41 | Tot | Total Hepta-Dioxins | 0.00 | - | - n | - | - 1.15 y |
| 42 | Tot | Total Tetra-Furans | 0.00 | - | - n | - | - 1.25 y |
| 43 | Tot | 1st Fn. Tot Penta-Furans | 0.00 | - | - n | - | - 0.965 y |
| 44 | Tot | Total Penta-Furans | 0.00 | - | - n | - | - 0.965 y |
| 45 | Tot | Total Hexa-Furans | 0.00 | - | - n | - | - 1.07 y |
| 46 | Tot | Total Hepta-Furans | 0.00 | - | - n | - | - 1.50 y |

Analyst: 

Date: 4/15/10

Run #6 Filename 14APR10M
 Client ID: ST041410M5

S: 6 Acquired: 14-APR-10 14:38:27
 Analyte: PCDDFAL3-4-14-10

Cal: PCDDFAL3-4-14-10
 FAL ID: 1613 CS5 090918L

| Typ | Name | Amount | Resp | RA | RT | RF | RRF |
|-----|-------|--------------------------|---------|----------|--------|-------|--------------|
| 1 | Unk | 2,3,7,8-TCDD | 200.00 | 4.72e+07 | 0.81 y | 27:18 | - 1.23 y |
| 2 | Unk | 1,2,3,7,8-PeCDD | 1000.00 | 2.67e+08 | 1.52 y | 33:08 | - 1.16 y |
| 3 | Unk | 1,2,3,4,7,8-HxCDD | 1000.00 | 3.03e+08 | 1.28 y | 38:29 | - 1.50 y |
| 4 | Unk | 1,2,3,6,7,8-HxCDD | 1000.00 | 2.57e+08 | 1.29 y | 38:39 | - 1.47 y |
| 5 | Unk | 1,2,3,7,8,9-HxCDD | 1000.00 | 2.87e+08 | 1.28 y | 39:06 | - 1.52 y |
| 6 | Unk | 1,2,3,4,6,7,8-HpCDD | 1000.00 | 2.59e+08 | 0.97 y | 44:04 | - 1.24 y |
| 7 | Unk | OCDD | 2000.00 | 4.38e+08 | 0.92 y | 49:36 | - 1.32 y |
| 8 | Unk | 2,3,7,8-TCDF | 200.00 | 1.03e+08 | 0.70 y | 26:33 | - 1.37 y |
| 9 | Unk | 1,2,3,7,8-PeCDF | 1000.00 | 4.04e+08 | 1.65 y | 31:23 | - 1.02 y |
| 10 | Unk | 2,3,4,7,8-PeCDF | 1000.00 | 3.79e+08 | 1.65 y | 32:42 | - 1.03 y |
| 11 | Unk | 1,2,3,4,7,8-HxCDF | 1000.00 | 4.07e+08 | 1.24 y | 37:06 | - 1.18 y |
| 12 | Unk | 1,2,3,6,7,8-HxCDF | 1000.00 | 4.09e+08 | 1.24 y | 37:17 | - 1.08 y |
| 13 | Unk | 2,3,4,6,7,8-HxCDF | 1000.00 | 3.95e+08 | 1.24 y | 38:14 | - 1.16 y |
| 14 | Unk | 1,2,3,7,8,9-HxCDF | 1000.00 | 4.02e+08 | 1.25 y | 39:40 | - 1.27 y |
| 15 | Unk | 1,2,3,4,6,7,8-HpCDF | 1000.00 | 3.76e+08 | 1.02 y | 42:09 | - 1.51 y |
| 16 | Unk | 1,2,3,4,7,8,9-HpCDF | 1000.00 | 3.76e+08 | 1.02 y | 44:59 | - 1.78 y |
| 17 | Unk | OCDF | 2000.00 | 5.35e+08 | 0.91 y | 49:58 | - 0.937 y |
| 18 | IS/RT | 13C-2,3,7,8-TCDD | 100.00 | 1.92e+07 | 0.73 y | 27:17 | - 1.00 y |
| 19 | IS | 13C-1,2,3,7,8-PeCDD | 100.00 | 2.29e+07 | 1.61 y | 33:06 | - 1.20 y |
| 20 | IS | 13C-1,2,3,4,7,8-HxCDD | 100.00 | 2.02e+07 | 1.30 y | 38:28 | - 1.01 y |
| 21 | IS | 13C-1,2,3,6,7,8-HxCDD | 100.00 | 1.75e+07 | 1.31 y | 38:38 | - 0.873 y |
| 22 | IS | 13C-1,2,3,4,6,7,8-HpCDD | 100.00 | 2.09e+07 | 1.04 y | 44:03 | - 1.04 y |
| 23 | IS | 13C-OCDD | 200.00 | 3.32e+07 | 0.95 y | 49:35 | - 0.827 y |
| 24 | IS | 13C-2,3,7,8-TCDF | 100.00 | 3.76e+07 | 0.87 y | 26:32 | - 0.966 y |
| 25 | IS | 13C-1,2,3,7,8-PeCDF | 100.00 | 3.97e+07 | 1.64 y | 31:22 | - 1.02 y |
| 26 | IS | 13C-2,3,4,7,8-PeCDF | 100.00 | 3.69e+07 | 1.65 y | 32:41 | - 0.949 y |
| 27 | IS | 13C-1,2,3,4,7,8-HxCDF | 100.00 | 3.45e+07 | 0.47 y | 37:04 | - 1.72 y |
| 28 | IS | 13C-1,2,3,6,7,8-HxCDF | 100.00 | 3.78e+07 | 0.47 y | 37:16 | - 1.89 y |
| 29 | IS | 13C-2,3,4,6,7,8-HxCDF | 100.00 | 3.41e+07 | 0.48 y | 38:12 | - 1.70 y |
| 30 | IS | 13C-1,2,3,7,8,9-HxCDF | 100.00 | 3.16e+07 | 0.48 y | 39:38 | - 1.58 y |
| 31 | IS | 13C-1,2,3,4,6,7,8-HpCDF | 100.00 | 2.50e+07 | 0.46 y | 42:09 | - 1.24 y |
| 32 | IS | 13C-1,2,3,4,7,8,9-HpCDF | 100.00 | 2.11e+07 | 0.46 y | 44:58 | - 1.05 y |
| 33 | IS | 13C-OCDF | 200.00 | 5.72e+07 | 0.91 y | 49:57 | - 1.43 y |
| 34 | C/Up | 37Cl-2,3,7,8-TCDD | 200.00 | 4.76e+07 | | 27:18 | - 1.24 y |
| 35 | RS | 13C-1,2,3,4-TCDD | 100.00 | 1.91e+07 | 0.74 y | 26:43 | 1.91e+05 - n |
| 36 | RS | 13C-1,2,3,4-TCDF | 100.00 | 3.89e+07 | 0.87 y | 25:26 | 3.89e+05 - n |
| 37 | RS/RT | 13C-1,2,3,7,8,9-HxCDD | 100.00 | 2.00e+07 | 1.32 y | 39:04 | 2.00e+05 - n |
| 38 | Tot | Total Tetra-Dioxins | 0.00 | - | - n | - | - 1.23 y |
| 39 | Tot | Total Penta-Dioxins | 0.00 | - | - n | - | - 1.16 y |
| 40 | Tot | Total Hexa-Dioxins | 0.00 | - | - n | - | - 1.50 y |
| 41 | Tot | Total Hepta-Dioxins | 0.00 | - | - n | - | - 1.24 y |
| 42 | Tot | Total Tetra-Furans | 0.00 | - | - n | - | - 1.37 y |
| 43 | Tot | 1st Fn. Tot Penta-Furans | 0.00 | - | - n | - | - 1.02 y |
| 44 | Tot | Total Penta-Furans | 0.00 | - | - n | - | - 1.02 y |
| 45 | Tot | Total Hexa-Furans | 0.00 | - | - n | - | - 1.17 y |
| 46 | Tot | Total Hepta-Furans | 0.00 | - | - n | - | - 1.63 y |

Analyst: 

Date: 4/15/10

USEPA - ITD

FORM 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 14APR10M S1 CS3 Data Filename: 14APR10M S4

CS1 Data Filename: 14APR10M S2 CS4 Data Filename: 14APR10M S5

CS2 Data Filename: 14APR10M S3 CS5 Data Filename: 14APR10M S6

| | RELATIVE RESPONSE (RR) | | | | | | MEAN RR | Cv (%RSD) |
|---------------------|------------------------|------|------|------|------|------|------------|--------------|
| | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | | |
| NATIVE ANALYTES | | | | | | | | |
| 2,3,7,8-TCDD | 1.15 | 1.04 | 1.00 | 1.15 | 1.15 | 1.23 | 1.12 | 7.56 |
| 1,2,3,7,8-PeCDD | 0.99 | 0.99 | 1.04 | 1.08 | 1.16 | 1.16 | 1.07 | 7.30 |
| 1,2,3,4,7,8-HxCDD | 1.31 | 1.31 | 1.36 | 1.39 | 1.49 | 1.50 | 1.39 | 6.22 |
| 1,2,3,6,7,8-HxCDD | 1.23 | 1.27 | 1.35 | 1.37 | 1.46 | 1.47 | 1.36 | 7.17 |
| 1,2,3,7,8,9-HxCDD | 1.28 | 1.30 | 1.39 | 1.41 | 1.51 | 1.52 | 1.40 | 7.36 |
| 1,2,3,4,6,7,8-HpCDD | 1.07 | 1.05 | 1.09 | 1.15 | 1.22 | 1.24 | 1.14 | 6.86 |
| OCDD | 1.14 | 1.14 | 1.16 | 1.23 | 1.31 | 1.32 | 1.22 | 6.89 |
| 2,3,7,8-TCDF | 1.22 | 1.33 | 1.24 | 1.25 | 1.31 | 1.37 | 1.29 | 4.57 |
| 1,2,3,7,8-PeCDF | 0.84 | 0.86 | 0.88 | 0.97 | 0.99 | 1.02 | 0.93 | 7.98 |
| 2,3,4,7,8-PeCDF | 0.84 | 0.84 | 0.90 | 0.96 | 1.01 | 1.03 | 0.93 | 8.87 |
| 1,2,3,4,7,8-HxCDF | 1.00 | 0.96 | 1.03 | 1.07 | 1.16 | 1.18 | 1.07 | 8.15 |
| 1,2,3,6,7,8-HxCDF | 0.87 | 0.90 | 0.93 | 1.00 | 1.05 | 1.08 | 0.97 | 8.86 |
| 2,3,4,6,7,8-HxCDF | 0.97 | 0.95 | 1.01 | 1.06 | 1.13 | 1.16 | 1.04 | 8.16 |
| 1,2,3,7,8,9-HxCDF | 1.04 | 1.05 | 1.11 | 1.16 | 1.26 | 1.27 | 1.15 | 8.75 |
| 1,2,3,4,6,7,8-HpCDF | 1.28 | 1.25 | 1.29 | 1.40 | 1.48 | 1.51 | 1.37 | 8.15 |
| 1,2,3,4,7,8,9-HpCDF | 1.52 | 1.46 | 1.54 | 1.62 | 1.77 | 1.78 | 1.62 | 8.23 |
| OCDF | 0.77 | 0.79 | 0.81 | 0.86 | 0.92 | 0.94 | 0.85 | 8.39 |

Analyst: 

Date: 4/15/10

USEPA - ITD

FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 14APR10M S1 CS3 Data Filename: 14APR10M S4

CS1 Data Filename: 14APR10M S2 CS4 Data Filename: 14APR10M S5

CS2 Data Filename: 14APR10M S3 CS5 Data Filename: 14APR10M S6

| NATIVE ANALYTES | M/Z'S FORMING RATIO | ION ABUNDANCE RATIOS | | | | | | QC LIMITS |
|---------------------|---------------------------|----------------------|------|------|------|------|------|--------------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | |
| 2,3,7,8-TCDD | M/M+2 | 0.74 | 0.87 | 0.79 | 0.82 | 0.83 | 0.81 | 0.65-0.89 |
| 1,2,3,7,8-PeCDD | M+2/M+4 | 1.58 | 1.60 | 1.56 | 1.55 | 1.55 | 1.52 | 1.32-1.78 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.30 | 1.31 | 1.25 | 1.28 | 1.28 | 1.28 | 1.05-1.43 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.24 | 1.30 | 1.28 | 1.30 | 1.29 | 1.29 | 1.05-1.43 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.23 | 1.28 | 1.28 | 1.30 | 1.27 | 1.28 | 1.05-1.43 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 0.91 | 0.90 | 0.91 | 0.96 | 0.96 | 0.97 | 0.88-1.20 |
| OCDD | M+2/M+4 | 0.98 | 0.94 | 0.91 | 0.92 | 0.92 | 0.92 | 0.76-1.02 |
| 2,3,7,8-TCDF | M/M+2 | 0.66 | 0.66 | 0.67 | 0.67 | 0.68 | 0.70 | 0.65-0.89 |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.57 | 1.67 | 1.68 | 1.68 | 1.68 | 1.65 | 1.32-1.78 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.61 | 1.58 | 1.69 | 1.69 | 1.65 | 1.65 | 1.32-1.78 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.18 | 1.21 | 1.24 | 1.25 | 1.24 | 1.24 | 1.05-1.43 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.20 | 1.21 | 1.26 | 1.25 | 1.24 | 1.24 | 1.05-1.43 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.27 | 1.23 | 1.23 | 1.25 | 1.23 | 1.24 | 1.05-1.43 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.24 | 1.24 | 1.21 | 1.28 | 1.25 | 1.25 | 1.05-1.43 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 0.93 | 1.01 | 1.01 | 1.01 | 1.02 | 1.02 | 0.88-1.20 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.00 | 0.99 | 0.99 | 1.03 | 1.00 | 1.02 | 0.88-1.20 |
| OCDF | M+2/M+4 | 0.91 | 0.93 | 0.91 | 0.91 | 0.91 | 0.91 | 0.76-1.02 |

Analyst: Date: 4/15/10

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 14APR10M Sam:4

Analysis Date: 14-APR-10 12:47:47

| | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | ACCEPT | CONC. FOUND | CONC. RANGE (ng/mL) (3) |
|---------------------|-------------------------------|------------------------|---------------------|--------|----------------|-------------------------------|
| NATIVE ANALYTES | | | | | | |
| 2,3,7,8-TCDD | M/M+2 | 0.82 | 0.65-0.89 | y | 10.2 | 7.80 - 12.9 |
| 1,2,3,7,8-PeCDD | M+2/M+4 | 1.55 | 1.32-1.78 | y | 50.3 | 39.0 - 65.0 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.28 | 1.05-1.43 | y | 49.8 | 39.0 - 64.0 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 50.4 | 39.0 - 64.0 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 50.2 | 41.0 - 61.0 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 0.96 | 0.88-1.20 | y | 50.8 | 43.0 - 58.0 |
| OCDD | M+2/M+4 | 0.92 | 0.76-1.02 | y | 101 | 79.0 - 126 |
| 2,3,7,8-TCDF | M/M+2 | 0.67 | 0.65-0.89 | y | 9.73 | 8.40 - 12.0 |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.68 | 1.32-1.78 | y | 52.2 | 41.0 - 60.0 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.69 | 1.32-1.78 | y | 51.7 | 41.0 - 60.0 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.3 | 45.0 - 56.0 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 51.2 | 44.0 - 57.0 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.7 | 44.0 - 57.0 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.28 | 1.05-1.43 | y | 50.7 | 45.0 - 56.0 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.01 | 0.88-1.20 | y | 51.1 | 45.0 - 55.0 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.03 | 0.88-1.20 | y | 50.2 | 43.0 - 58.0 |
| OCDF | M+2/M+4 | 0.91 | 0.76-1.02 | y | 102 | 63.0 - 159 |

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

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

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

Analyst: Date: 4/15/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 14APR10M Sam:4

Analysis Date: 14-APR-10 12:47:47

| LABELLED COMPOUNDS | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | ACCEPT | CONC. FOUND | CONC. RANGE (ng/mL) (3) |
|-------------------------|-------------------------------|------------------------|---------------------|--------|----------------|-------------------------------|
| 13C-2,3,7,8-TCDD | M/M+2 | 0.74 | 0.65-0.89 | y | 97.5 | 82.0 - 121 |
| 13C-1,2,3,7,8-PeCDD | M+2/M+4 | 1.63 | 1.32-1.78 | y | 98.3 | 62.0 - 160 |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.31 | 1.05-1.43 | y | 103 | 85.0 - 117 |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 100 | 85.0 - 118 |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.03 | 0.88-1.20 | y | 97.6 | 72.0 - 138 |
| 13C-OCDD | M+2/M+4 | 0.94 | 0.76-1.02 | y | 194 | 96.0 - 415 |
| 13C-2,3,7,8-TCDF | M/M+2 | 0.86 | 0.65-0.89 | y | 105 | 71.0 - 140 |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.65 | 1.32-1.78 | y | 102 | 76.0 - 130 |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.65 | 1.32-1.78 | y | 101 | 77.0 - 130 |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 103 | 76.0 - 131 |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 101 | 70.0 - 143 |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.48 | 0.43-0.59 | y | 102 | 73.0 - 137 |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 99.3 | 74.0 - 135 |
| 13C-1,2,3,4,6,7,8-HpCDF | M/M+2 | 0.46 | 0.37-0.51 | y | 99.6 | 78.0 - 129 |
| 13C-1,2,3,4,7,8,9-HpCDF | M/M+2 | 0.46 | 0.37-0.51 | y | 98.5 | 77.0 - 129 |
| 13C-OCDF | M+2/M+4 | 0.91 | 0.76-1.02 | y | 195 | 96.0 - 415 |
| CLEANUP STANDARD (4) | | | | | | |
| 37Cl-2,3,7,8-TCDD | | | | | 9.72 | 7.80 - 12.8 |

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

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

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

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

Analyst: Date: 4/15/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 4/14/10
RT Window Data Filename: 14APR10M Sam:4 Analysis Date: 14-APR-10 Time: 12:47:47
DB-5 IS Data Filename: 14APR10M Sam:4 Analysis Date: 14-APR-10 Time: 12:47:47
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

| ISOMERS | ABSOLUTE RT | ISOMERS | ABSOLUTE RT |
|-------------------------|-------------|-------------------------|-------------|
| 1,3,6,8-TCDD (F) | 24:19 | 1,3,6,8-TCDF (F) | 22:59 |
| 1,2,8,9-TCDD (L) | 28:15 | 1,2,8,9-TCDF (L) | 28:28 |
| 1,2,4,7,9-PeCDD (F) | 30:09 | 1,3,4,6,8-PeCDF (F) | 28:19 |
| 1,2,3,8,9-PeCDD (L) | 33:41 | 1,2,3,8,9-PeCDF (L) | 34:07 |
| 1,2,4,6,7,9-HxCDD (F) | 36:00 | 1,2,3,4,6,8-HxCDF (F) | 35:08 |
| 1,2,3,7,8,9-HxCDD (L) | 39:05 | 1,2,3,7,8,9-HxCDF (L) | 39:39 |
| 1,2,3,4,6,7,9-HpCDD (F) | 42:41 | 1,2,3,4,6,7,8-HpCDF (F) | 42:09 |
| 1,2,3,4,6,7,8-HpCDD (L) | 44:04 | 1,2,3,4,7,8,9-HpCDF (L) | 44:59 |

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

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: 

Date: 4/15/10

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 4/14/10

Instrument ID: FAL3 GC Column ID: db5

Analysis Date: 14-APR-10 12:47:47 CS3 or VER Data Filename: 14APR10M Sam:4

| NATIVE ANALYTES | RETENTION TIME REFERENCE | RRT | RRT QC LIMITS (1) |
|---------------------|-----------------------------|-------|----------------------|
| 2,3,7,8-TCDD | 13C-2,3,7,8-TCDD | 1.001 | 0.999-1.002 |
| 2,3,7,8-TCDF | 13C-2,3,7,8-TCDF | 1.001 | 0.999-1.003 |
| 1,2,3,7,8-PeCDD | 13C-1,2,3,7,8-PeCDD | 1.001 | 0.999-1.002 |
| 1,2,3,7,8-PeCDF | 13C-1,2,3,7,8-PeCDF | 1.000 | 0.999-1.002 |
| 2,3,4,7,8-PeCDF | 13C-2,3,4,7,8-PeCDF | 1.001 | 0.999-1.002 |
| LABELED COMPOUNDS | | | |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | 1.023 | 0.989-1.052 |
| 13C-2,3,7,8-TCDD | | 1.022 | 0.976-1.043 |
| 13C-2,3,7,8-TCDF | | 0.994 | 0.923-1.103 |
| 13C-1,2,3,7,8-PeCDD | | 1.239 | 1.000-1.567 |
| 13C-1,2,3,7,8-PeCDF | | 1.175 | 0.923-1.203 |
| 13C-2,3,4,7,8-PeCDF | | 1.224 | 0.923-1.303 |

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

Analyst: Date: 4/15/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 4/14/10

Instrument ID: FAL3

GC Column ID: db5

Analysis Date: 14-APR-10 12:47:47

CS3 or VER Data Filename: 14APR10M

Sam:4

| NATIVE ANALYTES | RETENTION TIME REFERENCE | RRT | RRT QC LIMITS (1) |
|-------------------------|-----------------------------|-------|----------------------|
| 1,2,3,4,7,8-HxCDD | 13C-1,2,3,4,7,8-HxCDD | 1.001 | 0.999-1.001 |
| 1,2,3,6,7,8-HxCDD | 13C-1,2,3,6,7,8-HxCDD | 1.000 | 0.998-1.004 |
| 1,2,3,7,8,9-HxCDD | 13C-1,2,3,6,7,8-HxCDD | 1.012 | 1.000-1.019 |
| 1,2,3,4,7,8-HxCDF | 13C-1,2,3,4,7,8-HxCDF | 1.000 | 0.999-1.001 |
| 1,2,3,6,7,8-HxCDF | 13C-1,2,3,6,7,8-HxCDF | 1.001 | 0.997-1.005 |
| 2,3,4,6,7,8-HxCDF | 13C-2,3,4,6,7,8-HxCDF | 1.001 | 0.999-1.001 |
| 1,2,3,7,8,9-HxCDF | 13C-1,2,3,7,8,9-HxCDF | 1.001 | 0.999-1.001 |
| 1,2,3,4,6,7,8-HpCDD | 13C-1,2,3,4,6,7,8-HpCDD | 1.001 | 0.999-1.001 |
| 1,2,3,4,6,7,8-HpCDF | 13C-1,2,3,4,6,7,8-HpCDF | 1.000 | 0.999-1.001 |
| 1,2,3,4,7,8,9-HpCDF | 13C-1,2,3,4,7,8,9-HpCDF | 1.001 | 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 | 0.984 | 0.977-1.000 |
| 13C-1,2,3,6,7,8-HxCDD | | 0.989 | 0.981-1.003 |
| 13C-1,2,3,4,7,8-HxCDF | | 0.949 | 0.944-0.970 |
| 13C-1,2,3,6,7,8-HxCDF | | 0.954 | 0.949-0.975 |
| 13C-2,3,4,6,7,8-HxCDF | | 0.978 | 0.959-1.021 |
| 13C-1,2,3,7,8,9-HxCDF | | 1.015 | 0.977-1.047 |
| 13C-1,2,3,4,6,7,8-HpCDD | | 1.127 | 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 | | 1.268 | 1.032-1.311 |
| 13C-OCDF | | 1.278 | 1.000-1.311 |

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

Analyst: Date: 4/15/10

FAL ID: ST041410M3 Filename: 14APR10M Sam:4 Acquired: 14-APR-10 12:47:47 ICal: PCDDFAL3-4-14-10
 Client ID: 1613 CS3 090918J ConCal: ST041410M3 EndCal: ST041410M6
 Results: GC Column: db5 Amount: 1.000 NATO 1989 Tox: 102 WHO 1998 Tox: 127 WHO 2005 Tox: 115

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|-------|------|------|------|-------------|---------|----|------|---------|
| 2,3,7,8-TCDD | 1.98e+06 | 0.82 y | 27:19 | 1.12 | 10.2 | | 2.50 | - | - | * | |
| 1,2,3,7,8-PeCDD | 1.08e+07 | 1.55 y | 33:07 | 1.07 | 50.3 | | 2.50 | - | - | * | |
| 1,2,3,4,7,8-HxCDD | 1.15e+07 | 1.28 y | 38:29 | 1.39 | 49.8 | | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDD | 9.78e+06 | 1.30 y | 38:38 | 1.36 | 50.4 | | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDD | 1.09e+07 | 1.30 y | 39:05 | 1.40 | 50.2 | | 2.50 | - | - | * | |
| 1,2,3,4,6,7,8-HpCDD | 9.14e+06 | 0.96 y | 44:04 | 1.14 | 50.8 | | 2.50 | - | - | * | |
| OCDD | 1.43e+07 | 0.92 y | 49:35 | 1.22 | 101 | | 2.50 | - | - | * | |
| 2,3,7,8-TCDF | 4.48e+06 | 0.67 y | 26:34 | 1.29 | 9.73 | | 2.50 | - | - | * | |
| 1,2,3,7,8-PeCDF | 1.68e+07 | 1.68 y | 31:23 | 0.93 | 52.2 | | 2.50 | - | - | * | |
| 2,3,4,7,8-PeCDF | 1.57e+07 | 1.69 y | 32:43 | 0.93 | 51.7 | | 2.50 | - | - | * | |
| 1,2,3,4,7,8-HxCDF | 1.61e+07 | 1.25 y | 37:05 | 1.07 | 50.3 | | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDF | 1.62e+07 | 1.25 y | 37:17 | 0.97 | 51.2 | | 2.50 | - | - | * | |
| 2,3,4,6,7,8-HxCDF | 1.54e+07 | 1.25 y | 38:13 | 1.04 | 50.7 | | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDF | 1.45e+07 | 1.28 y | 39:39 | 1.15 | 50.7 | | 2.50 | - | - | * | |
| 1,2,3,4,6,7,8-HpCDF | 1.39e+07 | 1.01 y | 42:09 | 1.37 | 51.1 | | 2.50 | - | - | * | |
| 1,2,3,4,7,8,9-HpCDF | 1.27e+07 | 1.03 y | 44:59 | 1.62 | 50.2 | | 2.50 | - | - | * | |
| OCDF | 1.77e+07 | 0.91 y | 49:56 | 0.85 | 102 | | 2.50 | - | - | * | |
| 13C-2,3,7,8-TCDD | 1.73e+07 | 0.74 y | 27:18 | 0.98 | 97.5 | | | | | 97.5 | |
| 13C-1,2,3,7,8-PeCDD | 2.02e+07 | 1.63 y | 33:06 | 1.14 | 98.3 | | | | | 98.3 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.65e+07 | 1.31 y | 38:27 | 1.00 | 103 | | | | | 103 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.43e+07 | 1.30 y | 38:37 | 0.89 | 100 | | | | | 100 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.58e+07 | 1.03 y | 44:02 | 1.01 | 97.6 | | | | | 97.6 | |
| 13C-OCDD | 2.33e+07 | 0.94 y | 49:33 | 0.75 | 194 | | | | | 96.9 | |
| 13C-2,3,7,8-TCDF | 3.58e+07 | 0.86 y | 26:33 | 0.93 | 105 | | | | | 105 | |
| 13C-1,2,3,7,8-PeCDF | 3.48e+07 | 1.65 y | 31:22 | 0.93 | 102 | | | | | 102 | |
| 13C-2,3,4,7,8-PeCDF | 3.25e+07 | 1.65 y | 32:41 | 0.87 | 101 | | | | | 101 | |
| 13C-1,2,3,4,7,8-HxCDF | 3.00e+07 | 0.47 y | 37:04 | 1.82 | 103 | | | | | 103 | |
| 13C-1,2,3,6,7,8-HxCDF | 3.26e+07 | 0.47 y | 37:15 | 2.01 | 101 | | | | | 101 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.91e+07 | 0.48 y | 38:12 | 1.77 | 102 | | | | | 102 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.49e+07 | 0.47 y | 39:38 | 1.57 | 99.3 | | | | | 99.3 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.98e+07 | 0.46 y | 42:08 | 1.24 | 99.6 | | | | | 99.6 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.57e+07 | 0.46 y | 44:57 | 0.99 | 98.5 | | | | | 98.5 | |
| 13C-OCDF | 4.11e+07 | 0.91 y | 49:55 | 1.32 | 195 | | | | | 97.3 | |
| 37Cl-2,3,7,8-TCDD | 1.93e+06 | | 27:19 | 1.10 | 9.72 | | | | | 97.2 | |
| 13C-1,2,3,4-TCDD | 1.81e+07 | 0.75 y | 26:42 | - | 103 | | | | | | |
| 13C-1,2,3,4-TCDF | 3.69e+07 | 0.88 y | 25:27 | - | 99.4 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.60e+07 | 1.32 y | 39:04 | - | 98.0 | | | | | | |
| Total Tetra-Dioxins | 1.08e+07 | | 24:19 | 1.12 | 55.8 | | 2.50 | - | - | * | 17 |
| Total Penta-Dioxins | 2.34e+07 | | 30:09 | 1.07 | 108 | | 2.50 | - | - | * | 7 |
| Total Hexa-Dioxins | 3.65e+07 | | 36:00 | 1.38 | 171 | | 2.50 | - | - | * | 8 |
| Total Hepta-Dioxins | 1.94e+07 | | 42:41 | 1.14 | 108 | | 2.50 | - | - | * | 8 |
| Total Tetra-Furans | 1.90e+07 | | 22:59 | 1.29 | 41.3 | | 2.50 | - | - | * | 18 |
| 1st Fn. Tot Penta-Furans | 1.22e+07 | | 28:19 | 0.93 | 39.0 | | 2.50 | - | - | * | PeCDF 1 |
| Total Penta-Furans | 4.74e+07 | | 30:06 | 0.93 | 151 | | 2.50 | - | - | * | 190 12 |
| Total Hexa-Furans | 7.09e+07 | | 35:08 | 1.05 | 231 | | 2.50 | - | - | * | 11 |
| Total Hepta-Furans | 2.70e+07 | | 42:09 | 1.48 | 103 | | 2.50 | - | - | * | 4 |

Analyst: 

Date: 4/15/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:14APR10M

Instrument: FAL3

GC: DB5

Experiment:PCDD

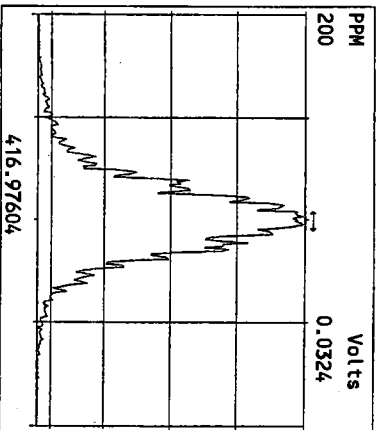
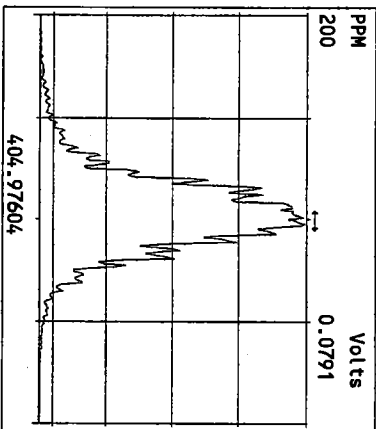
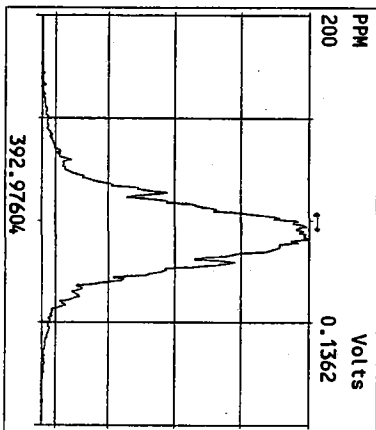
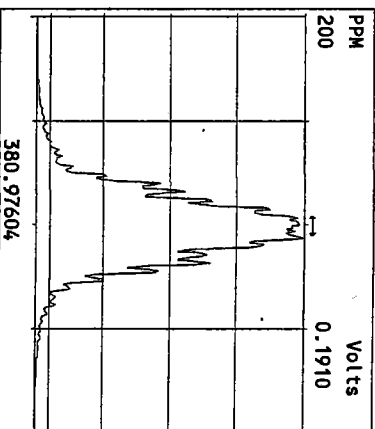
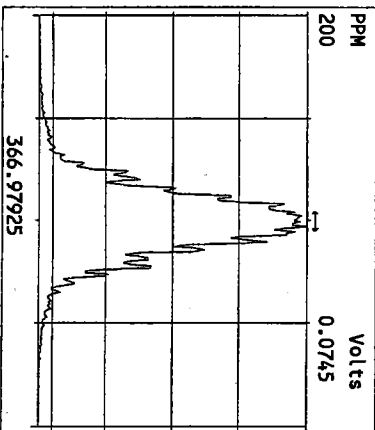
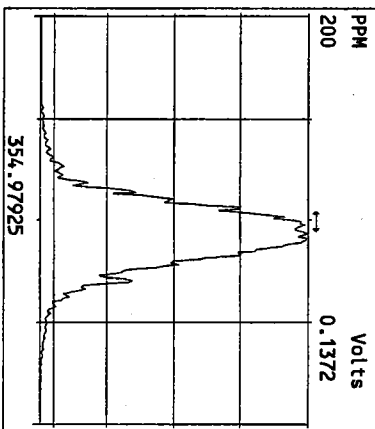
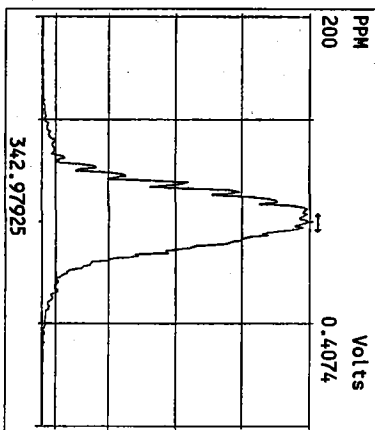
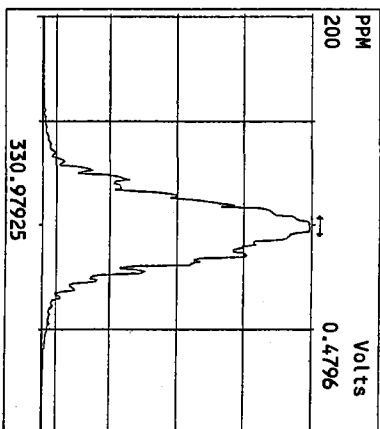
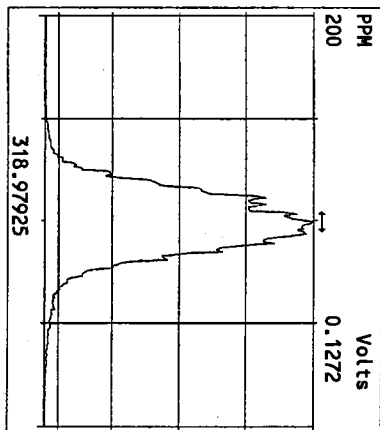
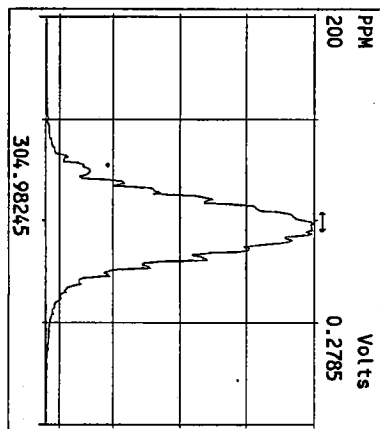
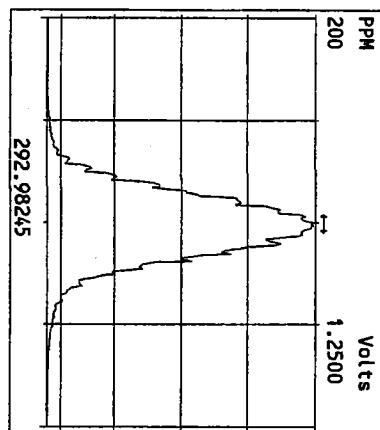
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| 14APR10M | 2 | ST041410M1 | 1613 CS1 090918H | 14-APR-10 10:57:09 | ST041410M3 | ST041410M6 | TC |
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| 14APR10M | 4 | ST041410M3 | 1613 CS3 090918J | 14-APR-10 12:47:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 5 | ST041410M4 | 1613 CS4 090918K | 14-APR-10 13:43:05 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 6 | ST041410M5 | 1613 CS5 090918L | 14-APR-10 14:38:27 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 7 | SB041410M1 | Solvent Blank | 14-APR-10 15:33:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 8 | 1987-001-0001-OPR | OPR | 14-APR-10 16:29:08 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 9 | 1987-001-0001-MB | Method Blank | 14-APR-10 17:24:28 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 10 | 6016-005-0002-DUP | MW-107A | 14-APR-10 18:19:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 11 | 6077-001-0001-SA | E-001 | 14-APR-10 19:15:06 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 12 | 6074-001-0001-SA | 31983 SPENT CAUST | 14-APR-10 20:10:24 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 13 | 6076-001-0001-SA | CB31A032910COMP | 14-APR-10 21:05:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 14 | 6076-002-0001-SA | CB4857032910COMP | 14-APR-10 22:01:10 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 15 | 6076-003-0001-SA | CB1032910COMP | 14-APR-10 22:56:33 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 16 | 6076-004-0001-SA | CB100032910COMP | 14-APR-10 23:51:58 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 17 | SB041410M2 | Solvent ,Blank | 15-APR-10 00:47:21 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 18 | ST041410M6 | 1613 CS3 (090918J) | 15-APR-10 01:42:40 | ST041410M3 | ST041410M6 | TC |

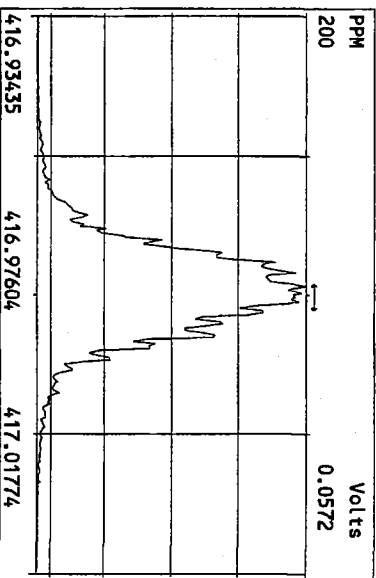
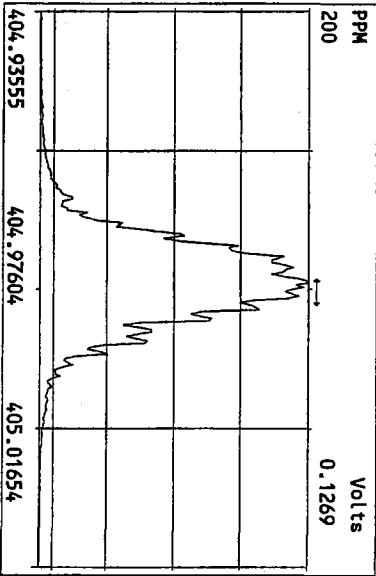
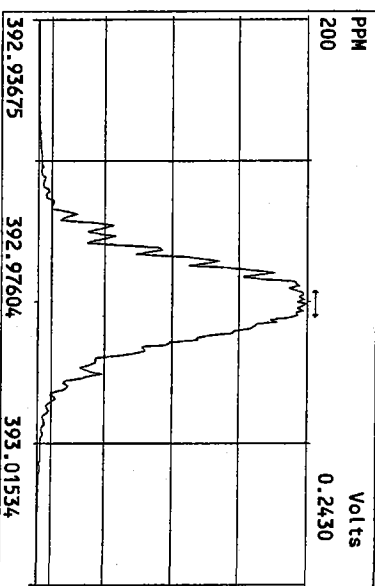
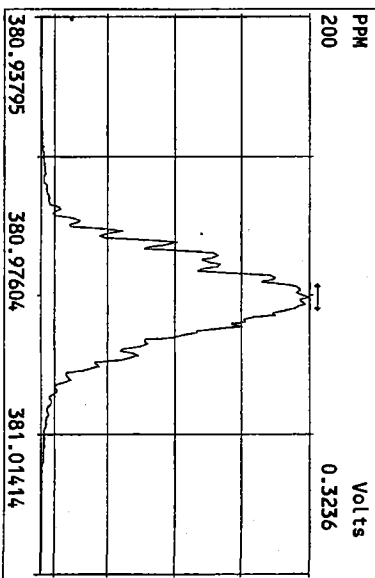
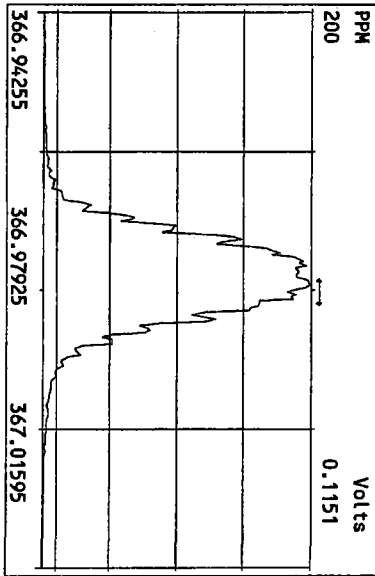
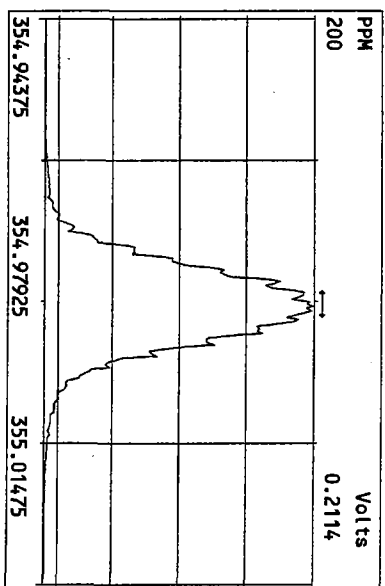
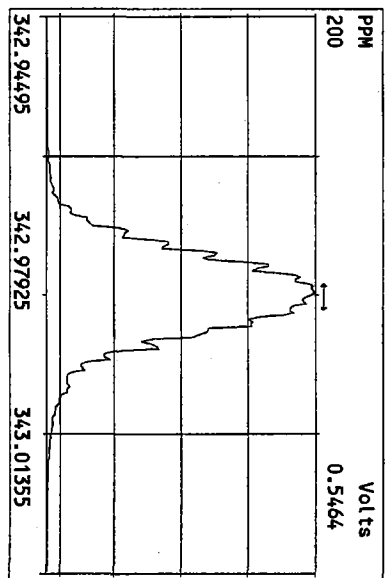
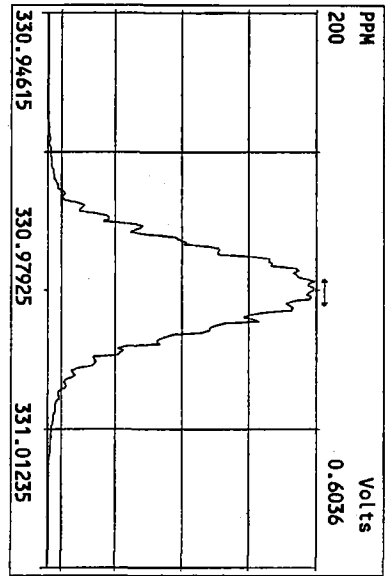
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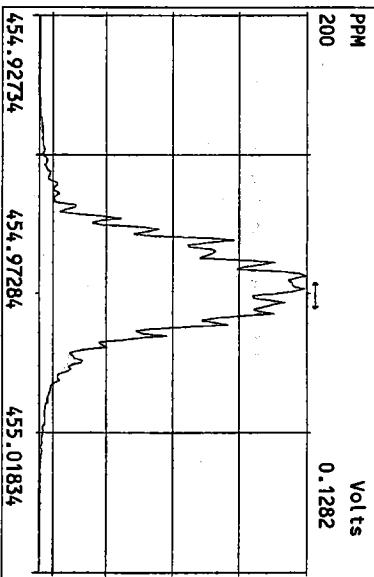
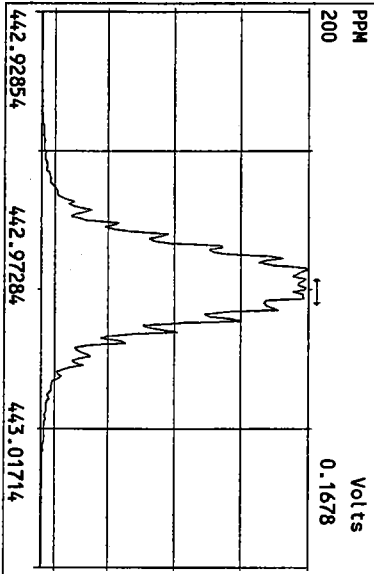
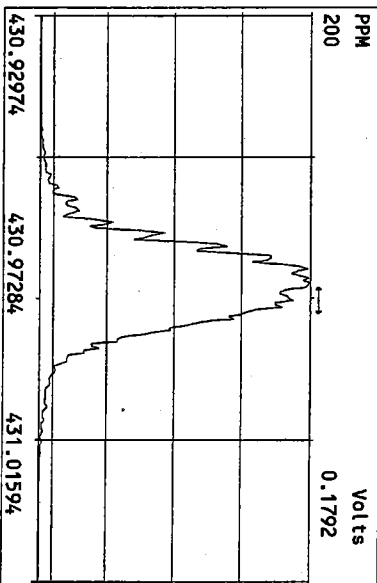
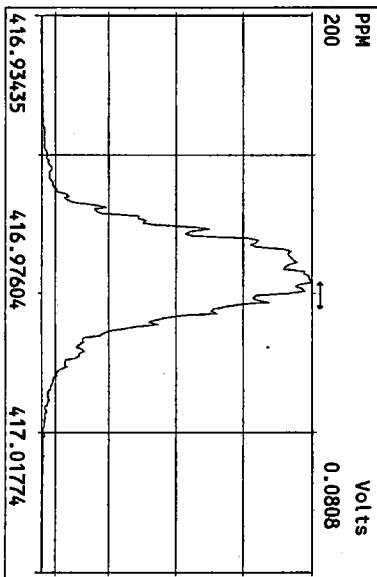
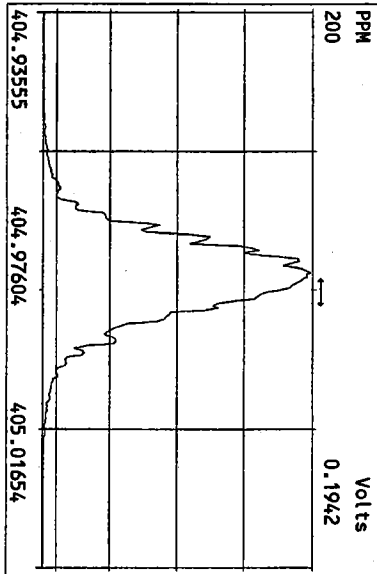
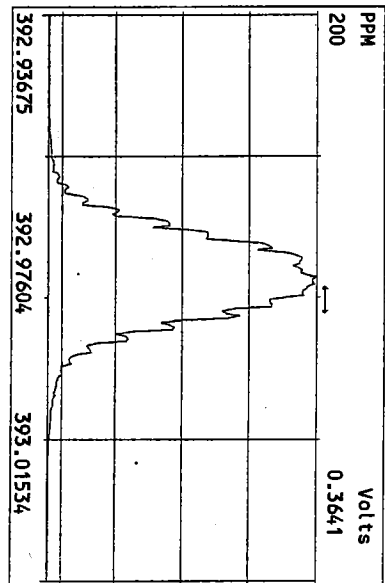
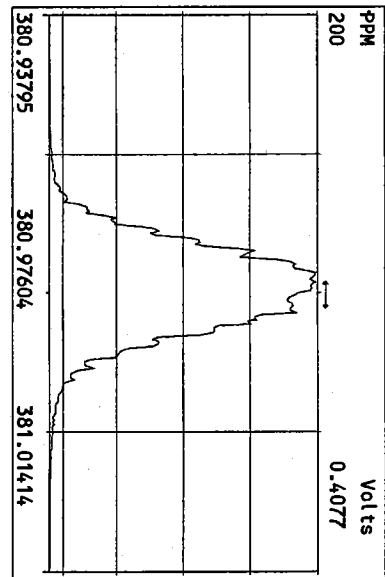
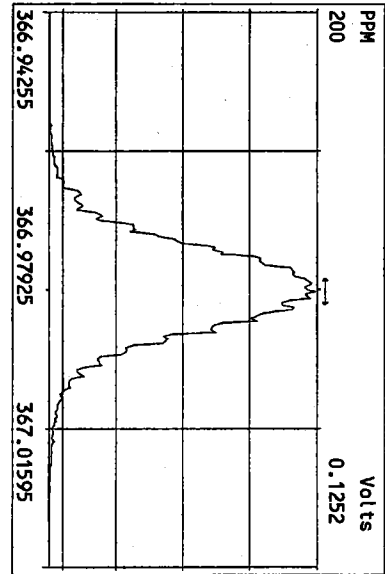
Data Backed Up: _____

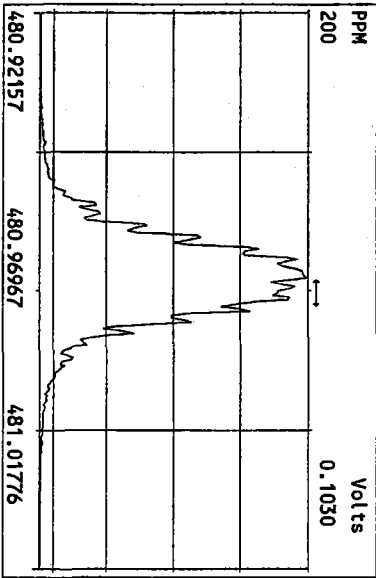
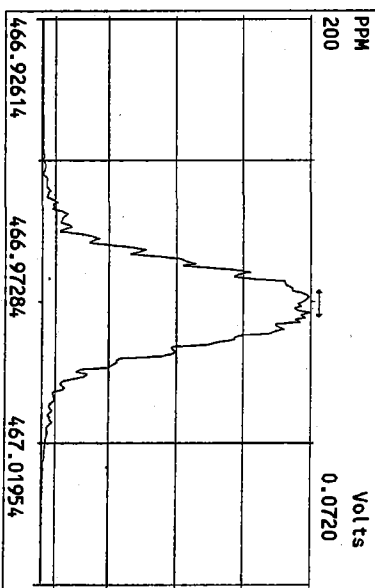
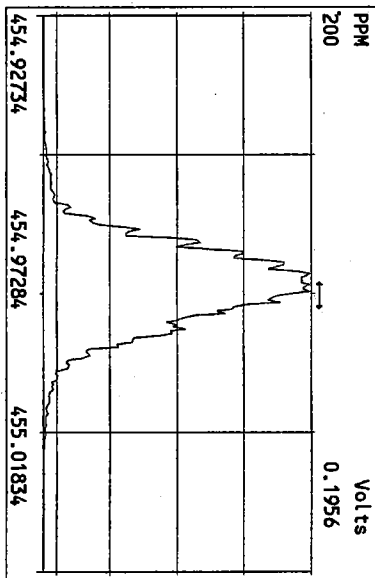
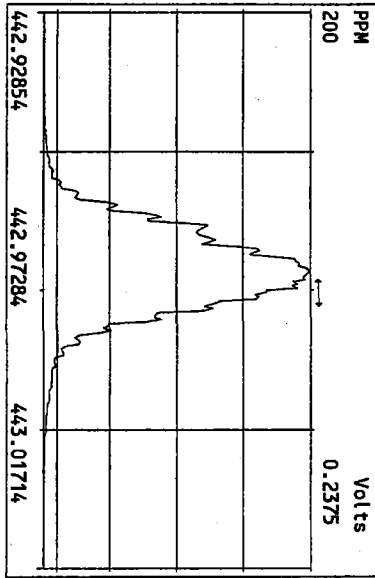
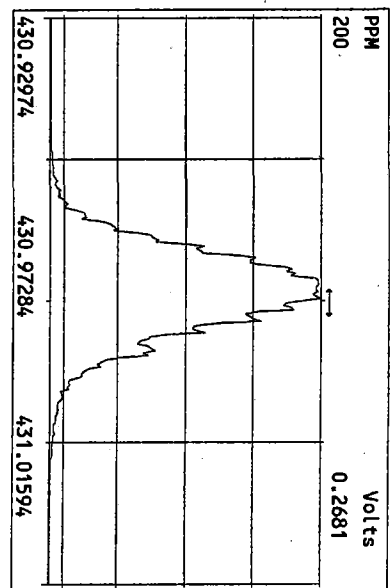
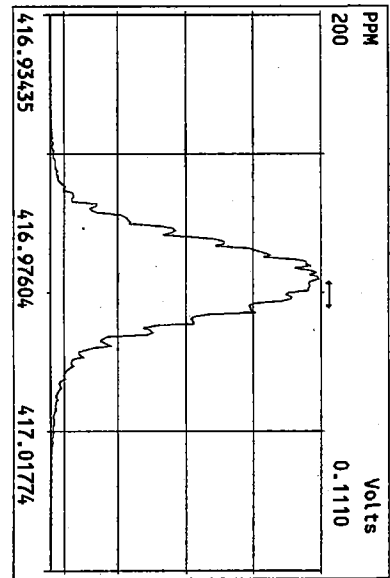
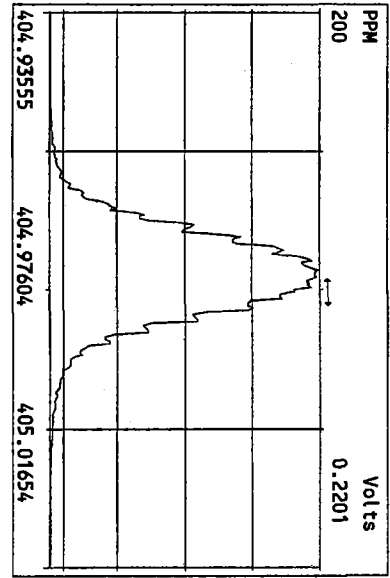
Date: _____

Peak Locate Examination:14-APR-2010:10:00 File:14APR10M
Experiment:PCDD Function:1 Reference:PFK

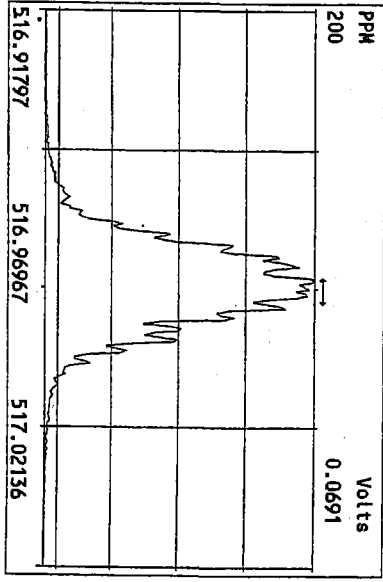
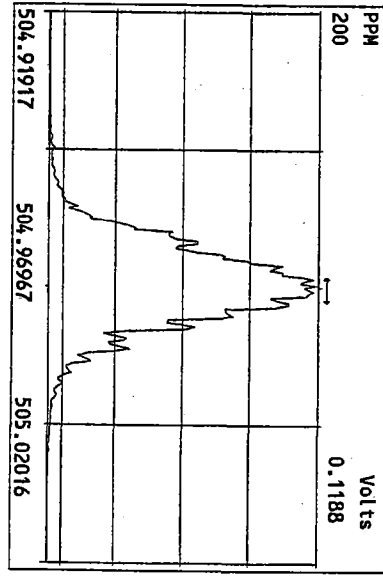
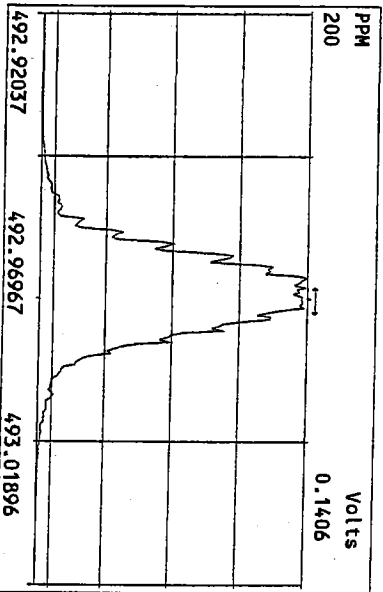
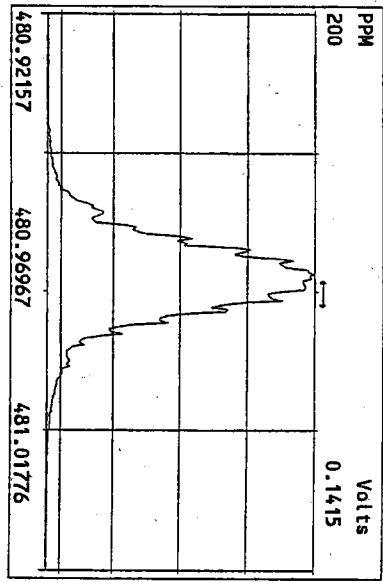
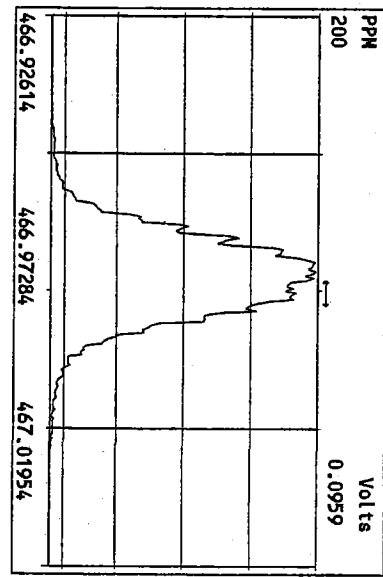
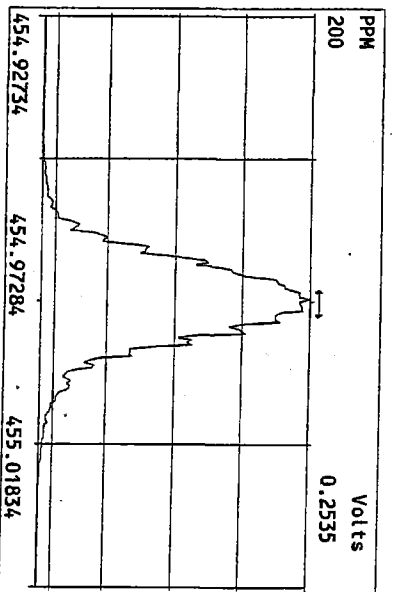
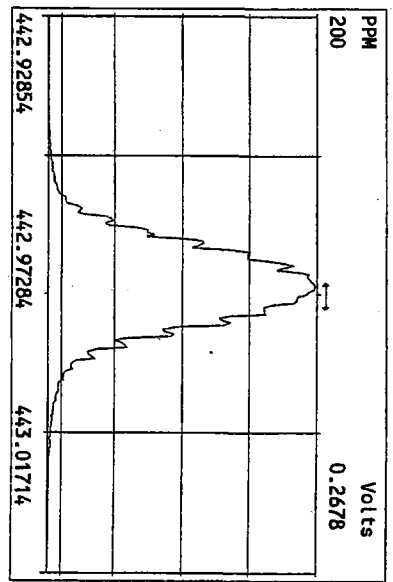
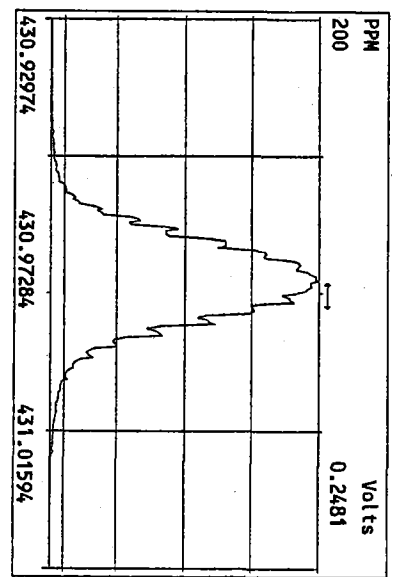




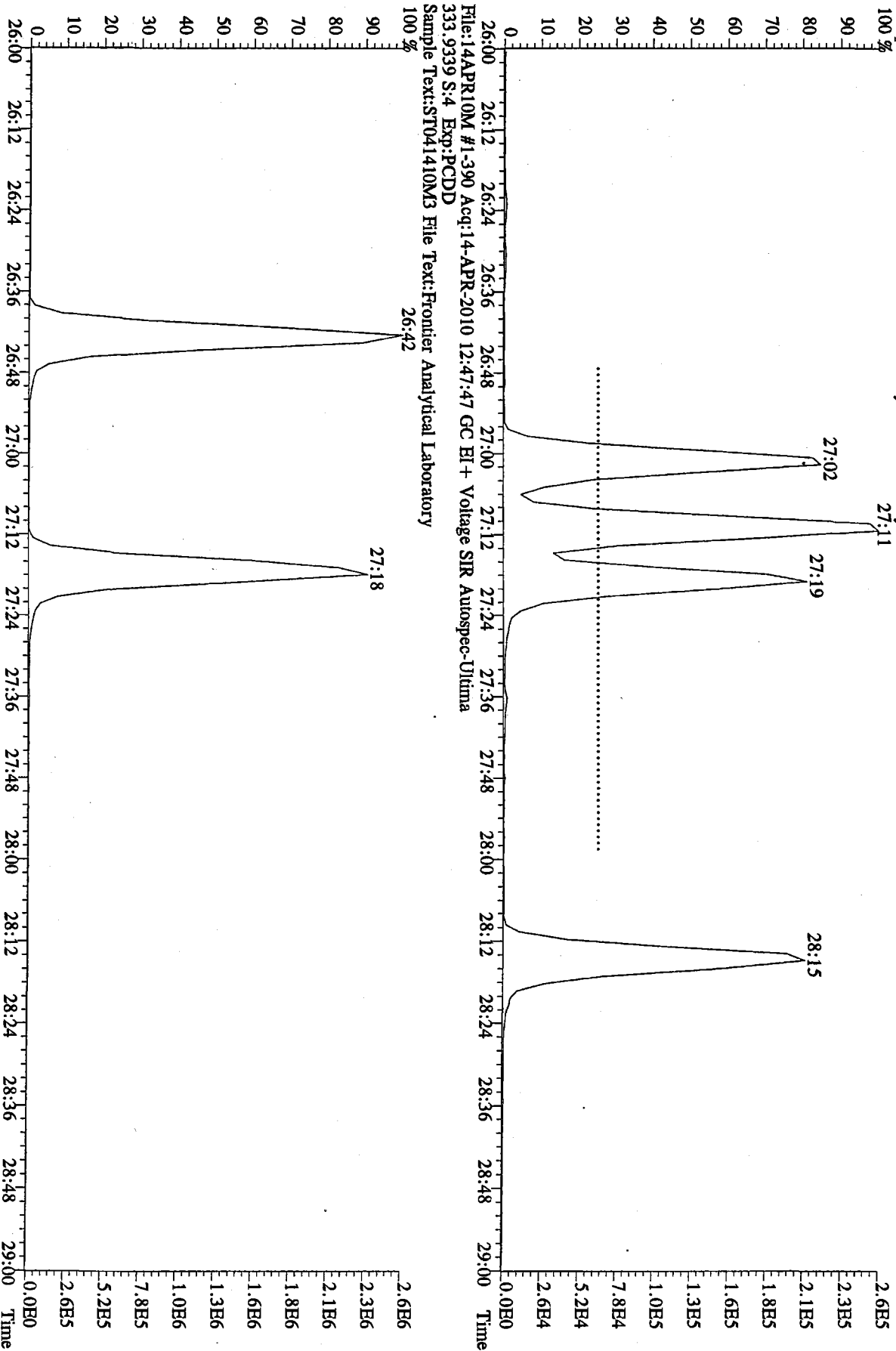




Peak Locate Examination: 14-APR-2010:10:01 File:14APR10M
 Experiment:PCDD Function:5 Reference:PFK

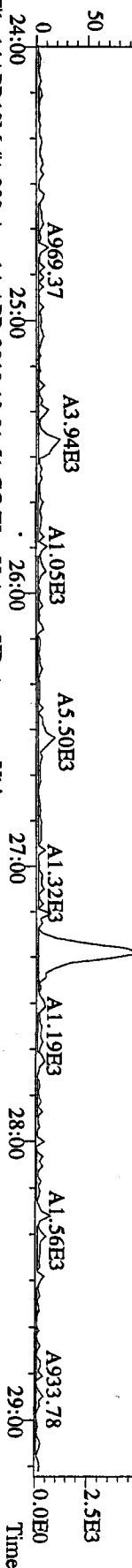


File:14APR10M #1-390 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:4 Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 %

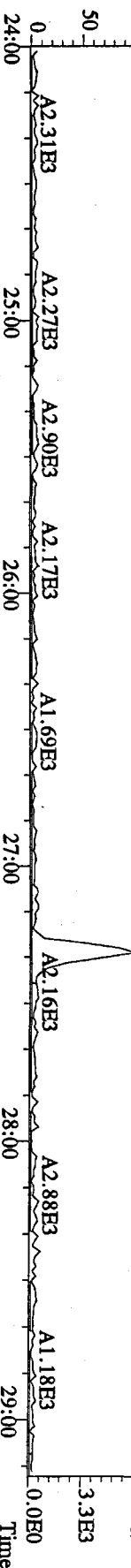


17:59:00

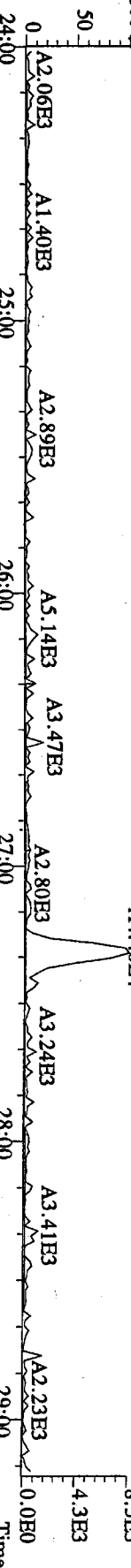
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



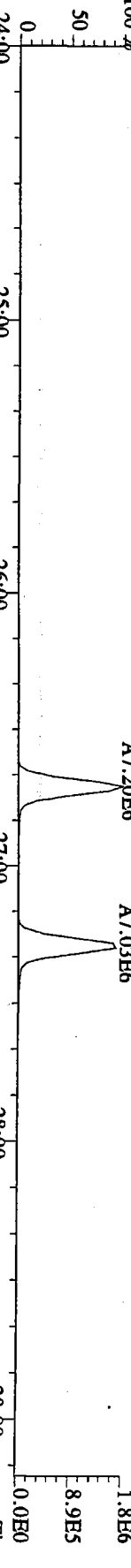
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



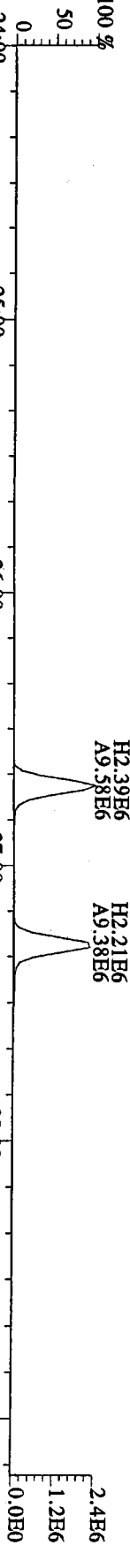
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



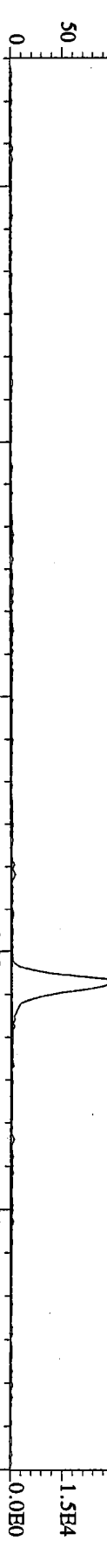
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



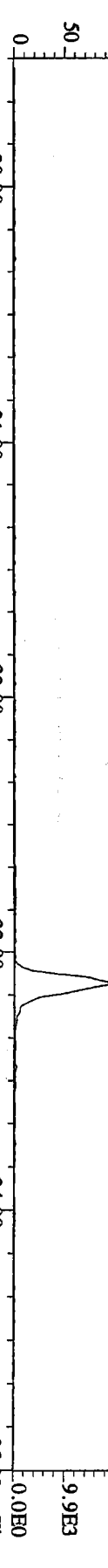
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



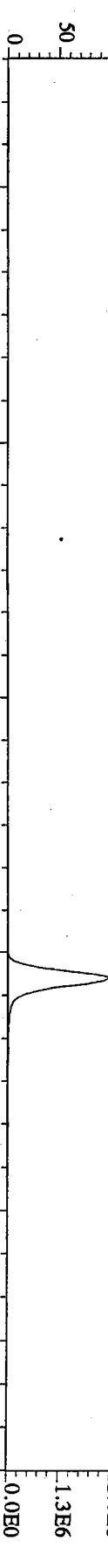
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
100 %



File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
357.8517 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
100 %



File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
100 %



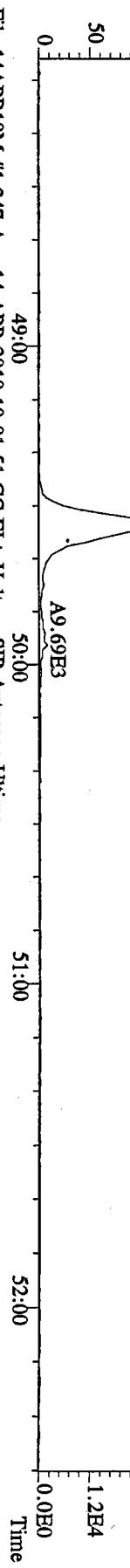
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
100 %



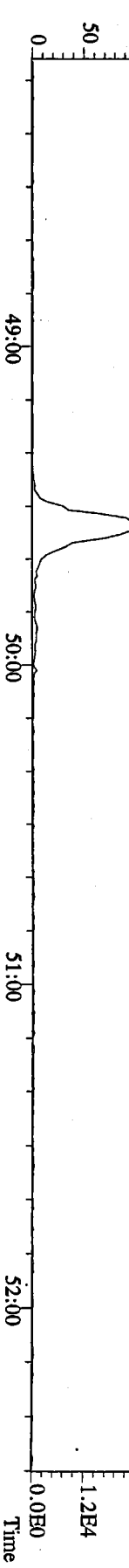
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
100 %



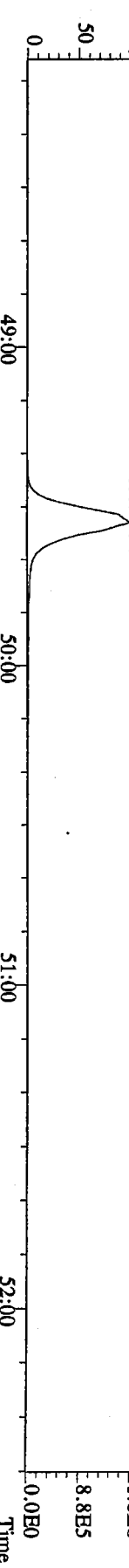
File:14APR10M #1-347 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
 457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
 100 %



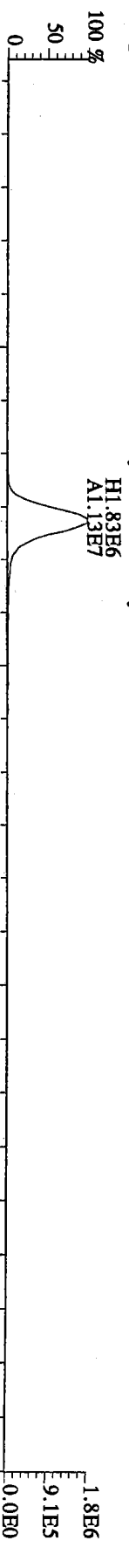
File:14APR10M #1-347 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
 459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
 100 %



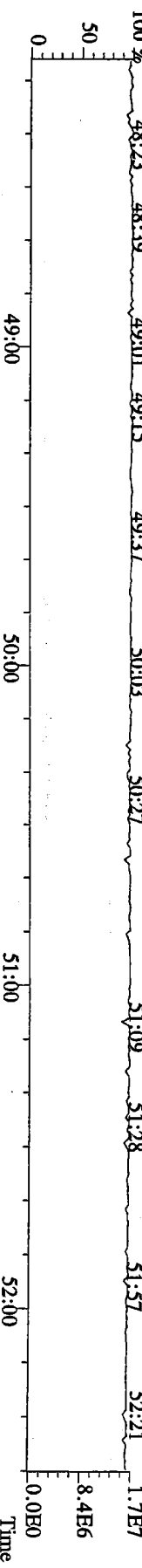
File:14APR10M #1-347 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
 469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
 100 %



File:14APR10M #1-347 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
 471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
 100 %

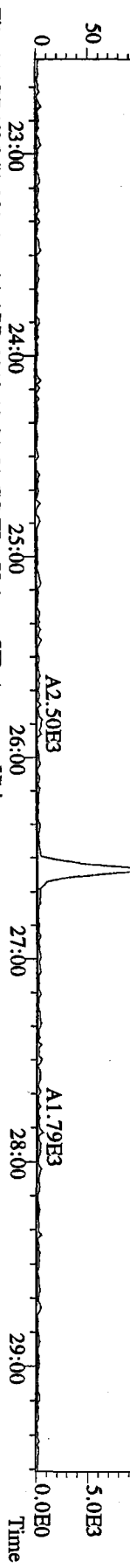


File:14APR10M #1-347 Acq:14-APR-2010 10:01:51 GC EI + Voltage SIR Autospec-Ultima
 454.9728 F:5 Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory
 100 %

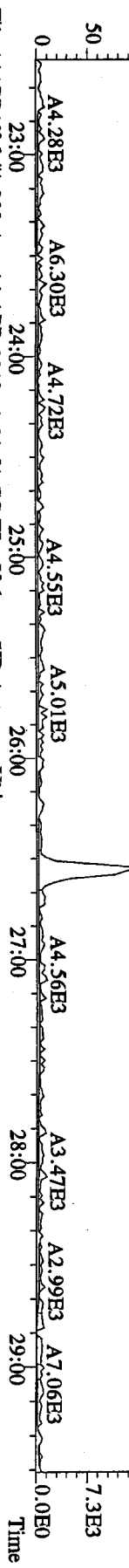


20100909 09:55:00

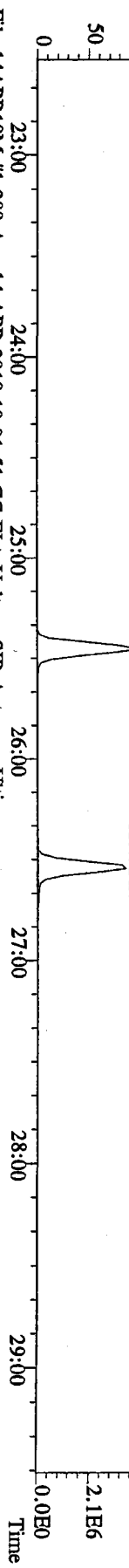
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



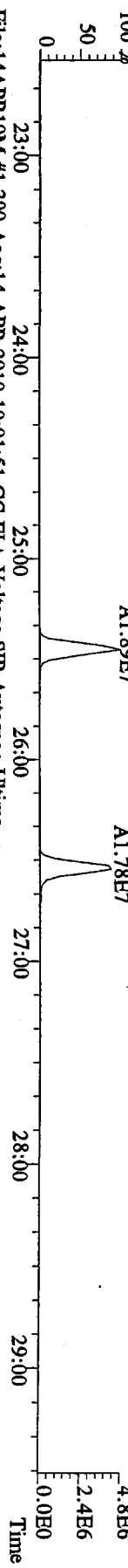
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



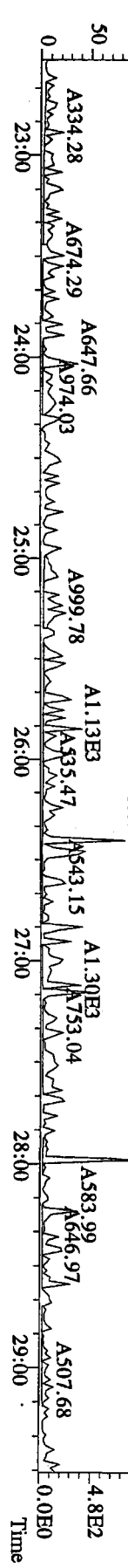
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



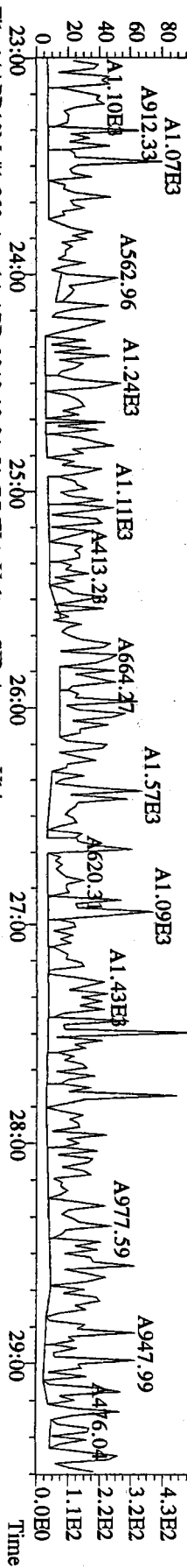
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 317.9389 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



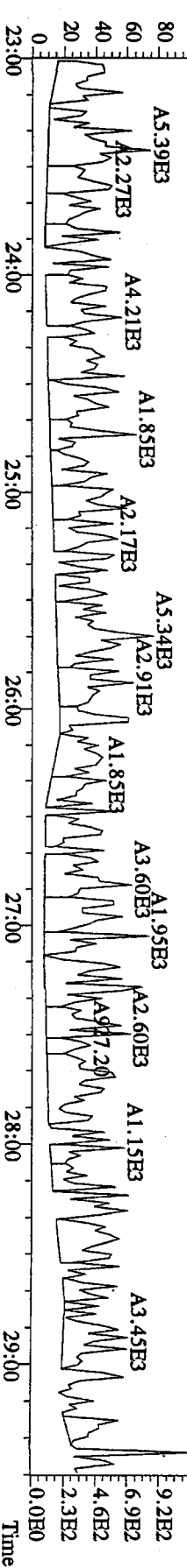
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



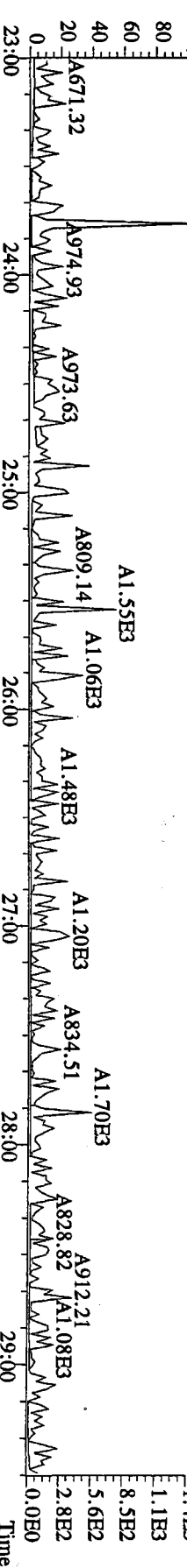
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



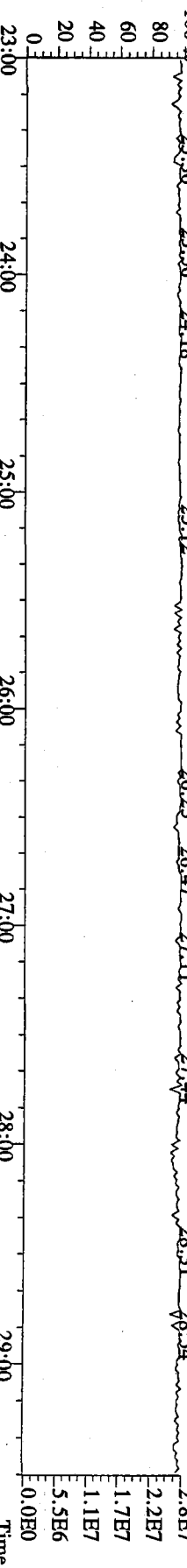
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



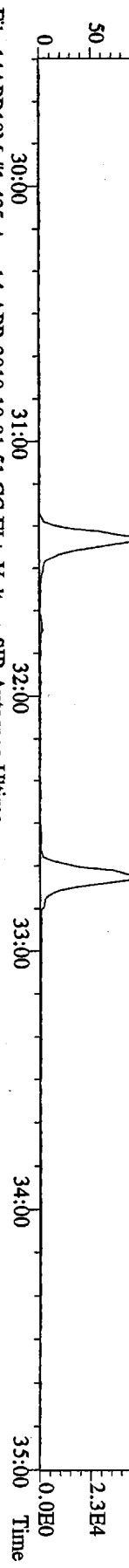
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



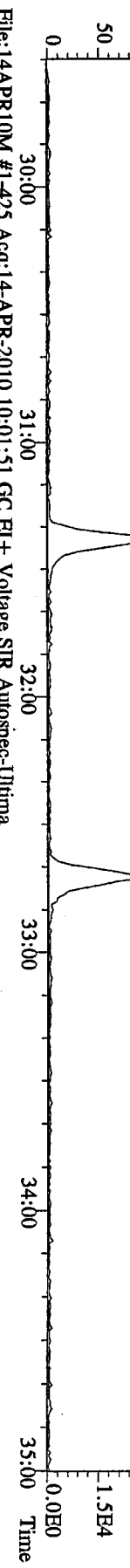
File:14APR10M #1-390 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



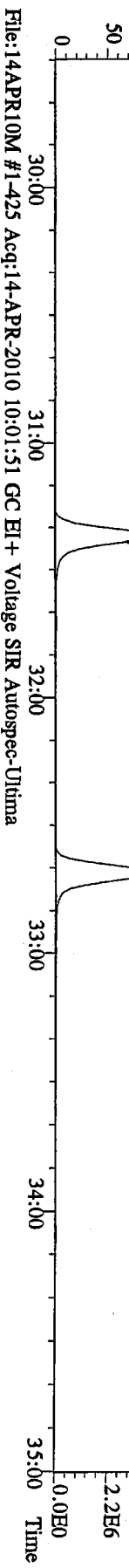
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



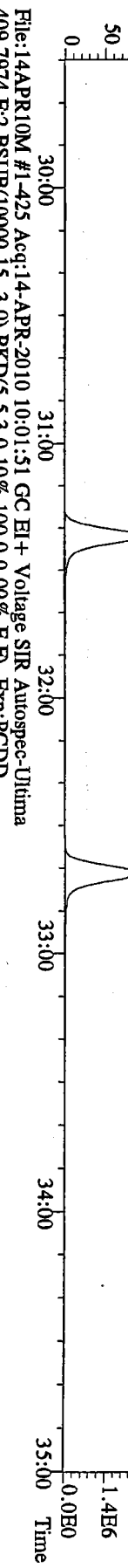
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



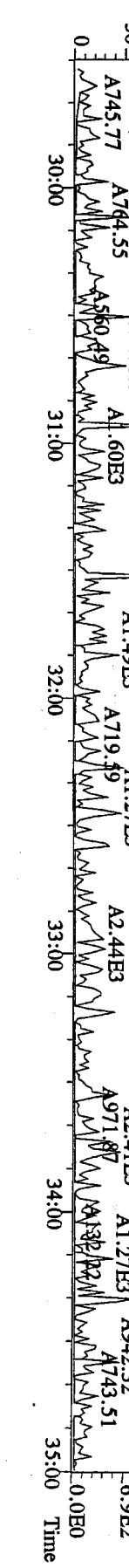
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



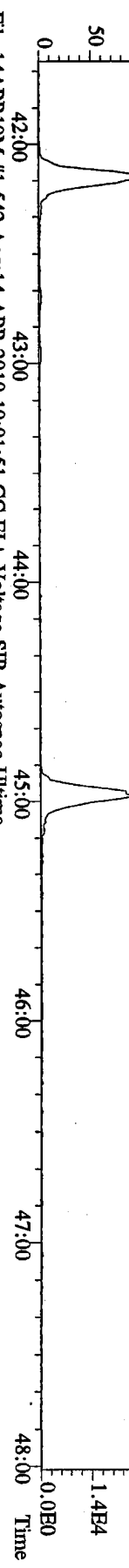
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



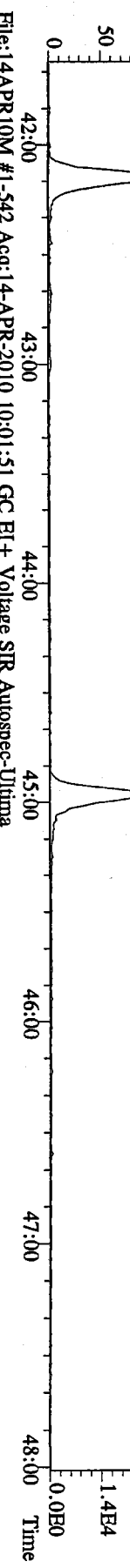
File:14APR10M #1-425 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



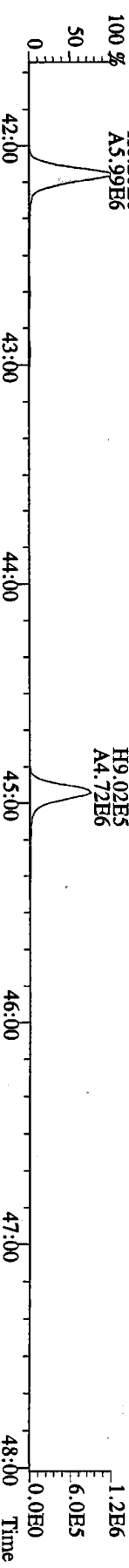
File:14APR10M #1-542 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



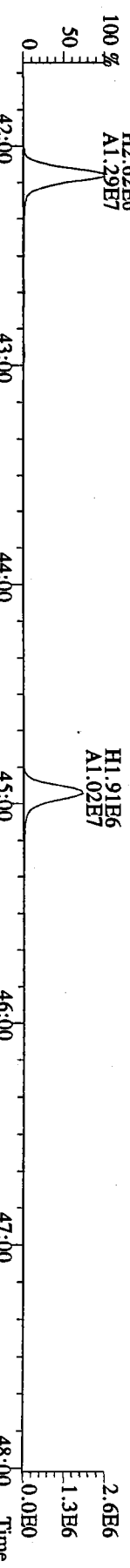
File:14APR10M #1-542 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



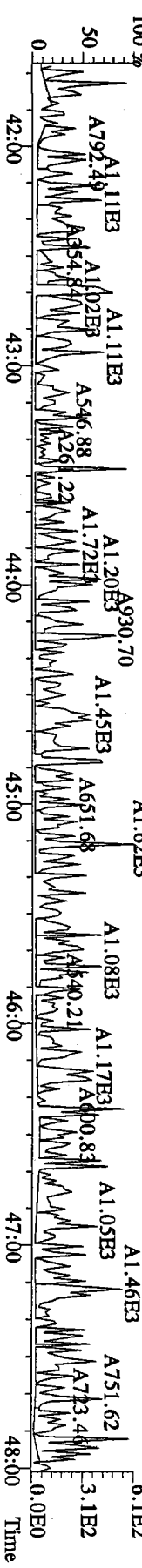
File:14APR10M #1-542 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



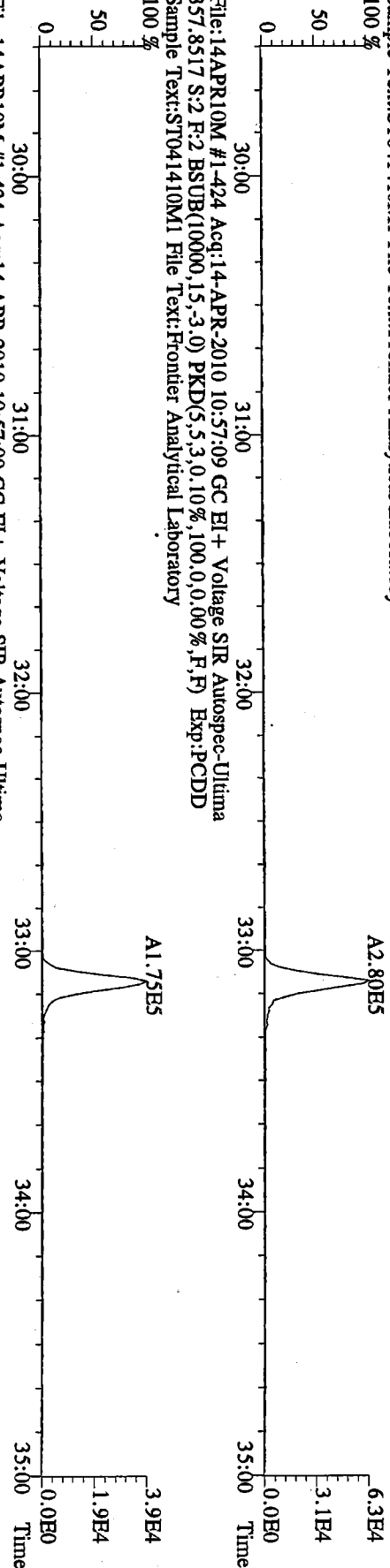
File:14APR10M #1-542 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



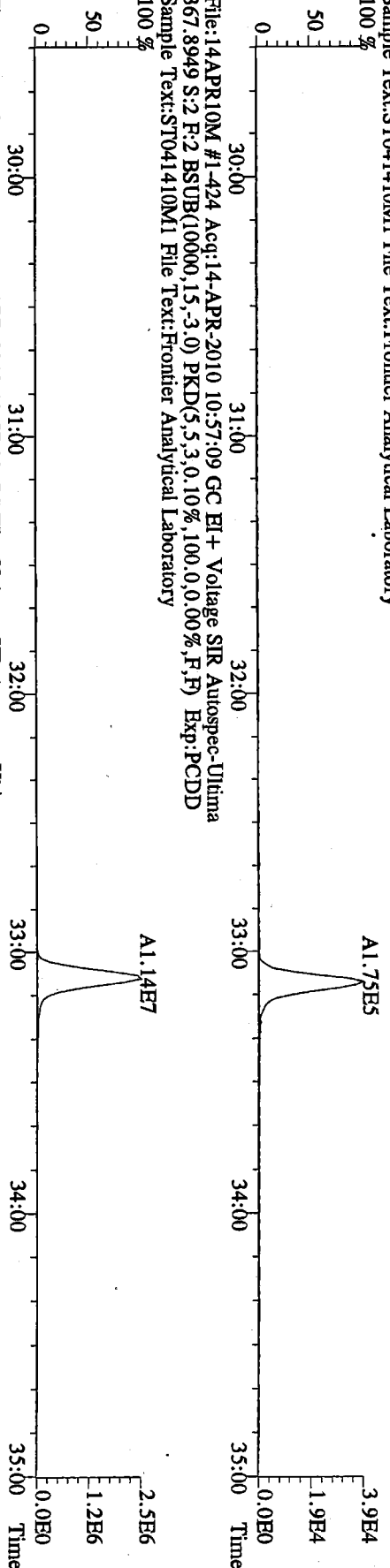
File:14APR10M #1-542 Acq:14-APR-2010 10:01:51 GC EI+ Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041310M0 File Text:Frontier Analytical Laboratory



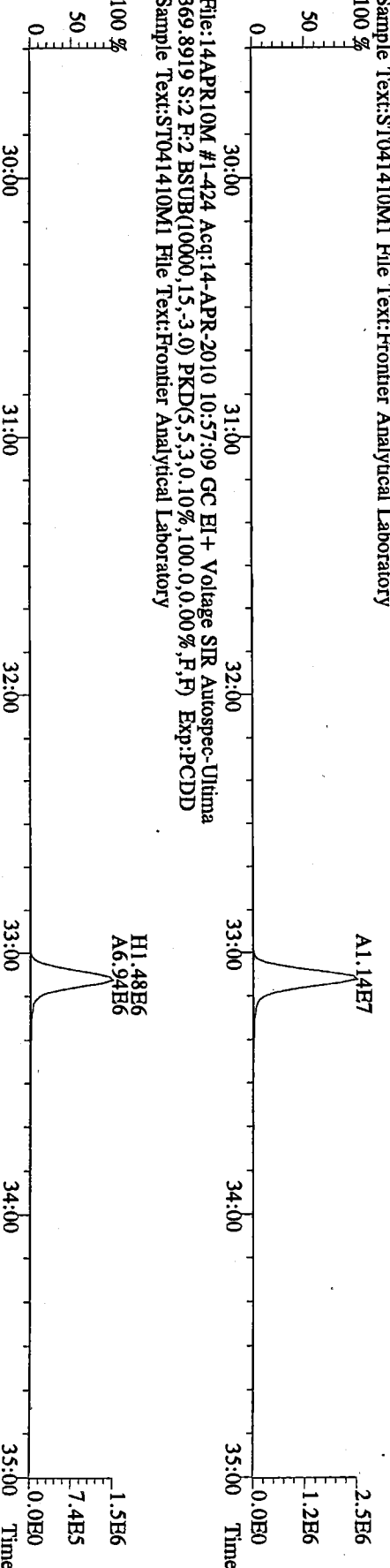
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



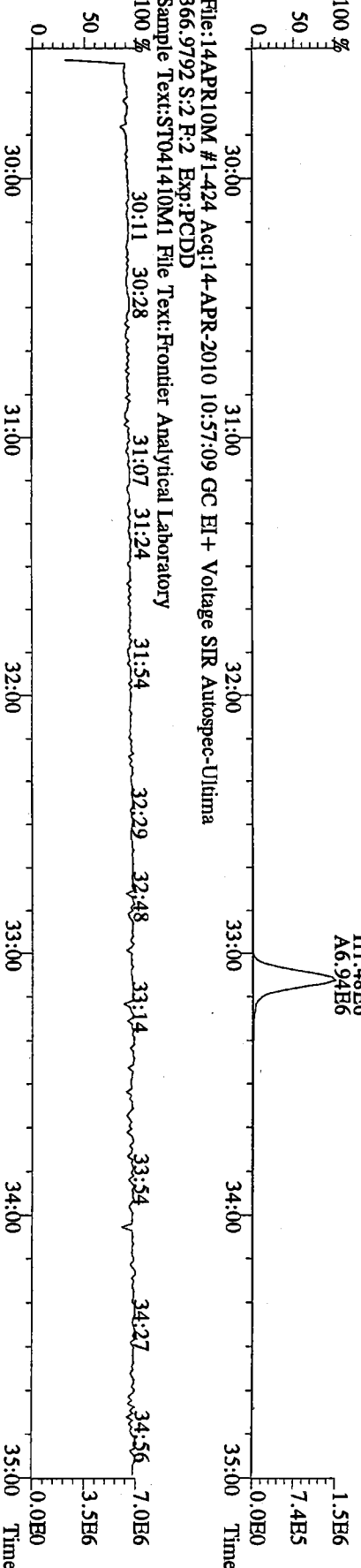
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



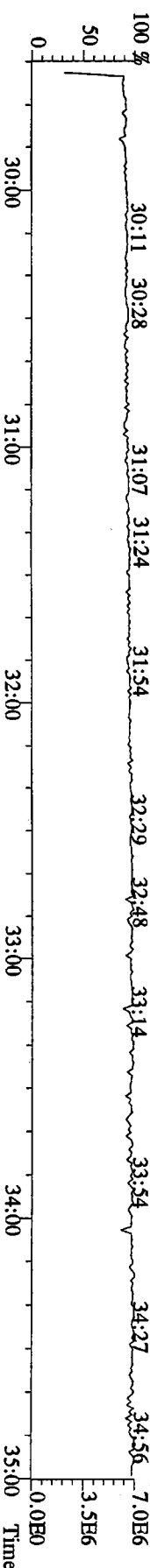
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



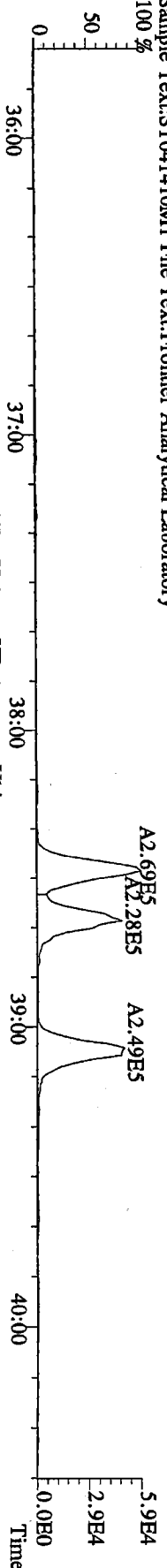
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



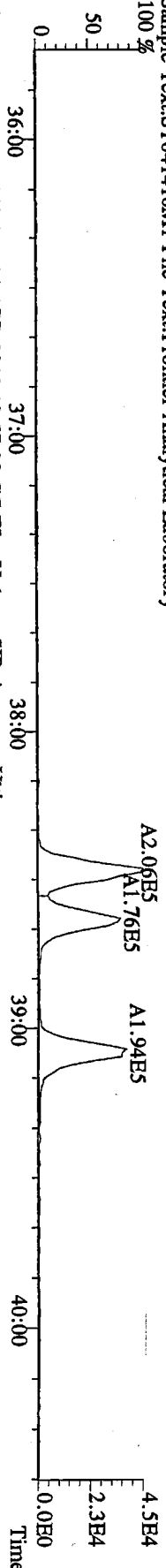
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



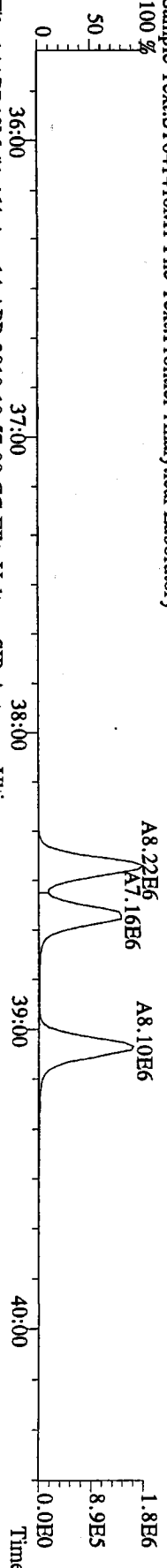
File:14APR10M #1-464 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



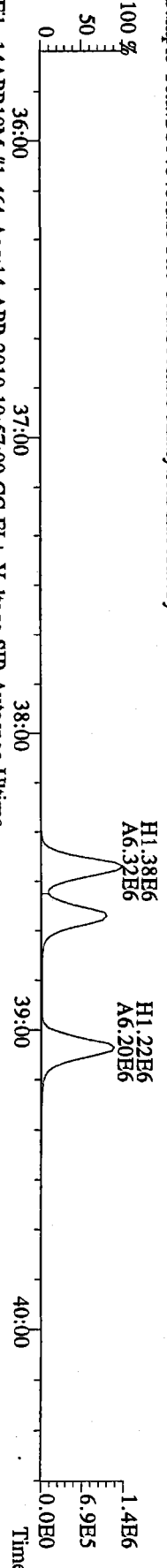
File:14APR10M #1-464 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



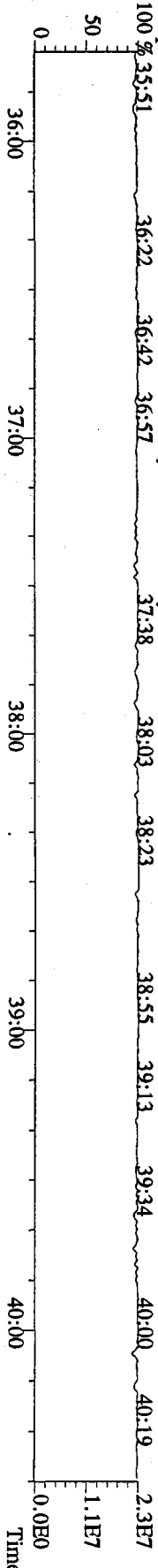
File:14APR10M #1-464 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



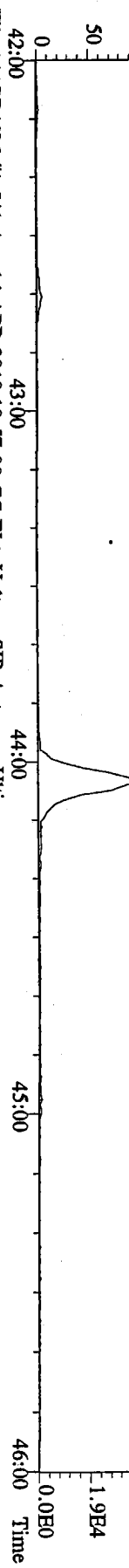
File:14APR10M #1-464 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



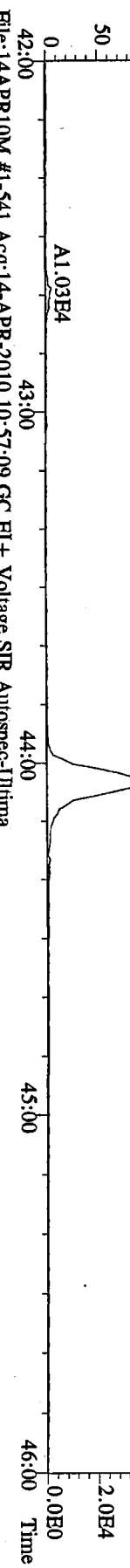
File:14APR10M #1-464 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:2 F:3 Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



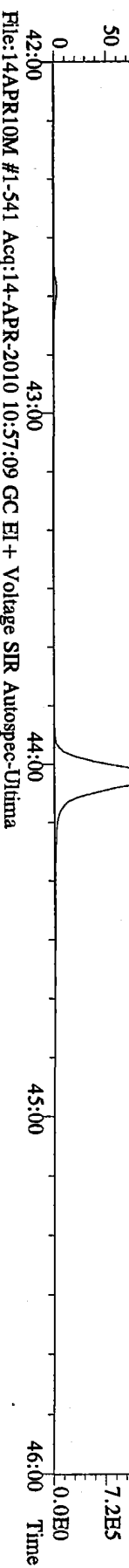
File:14APR10M #1-541 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory
100 %



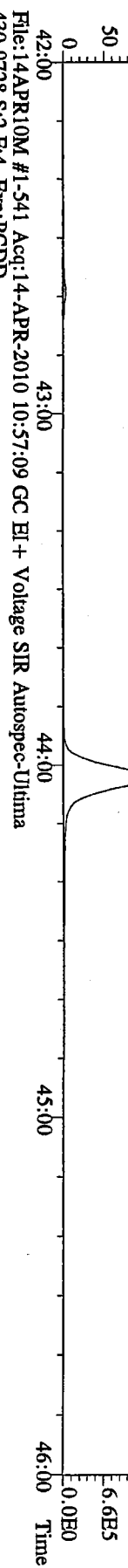
File:14APR10M #1-541 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory
100 %



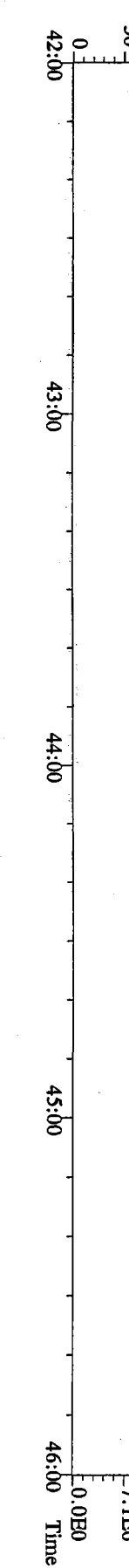
File:14APR10M #1-541 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory
100 %



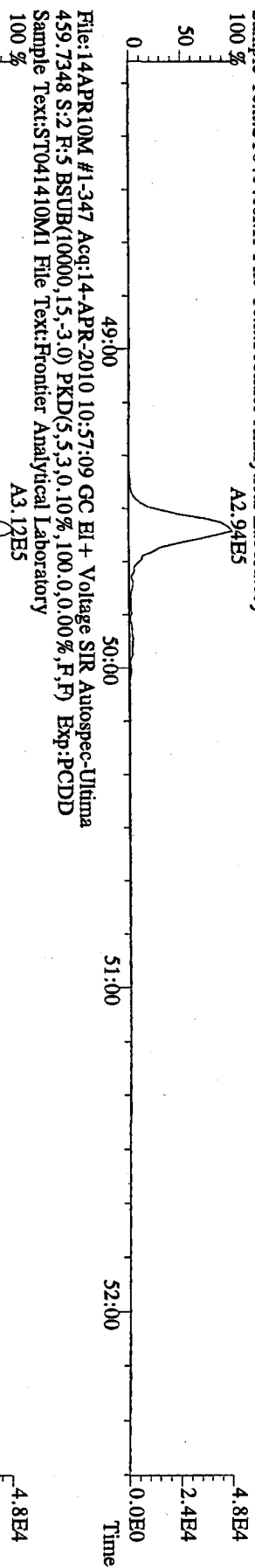
File:14APR10M #1-541 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



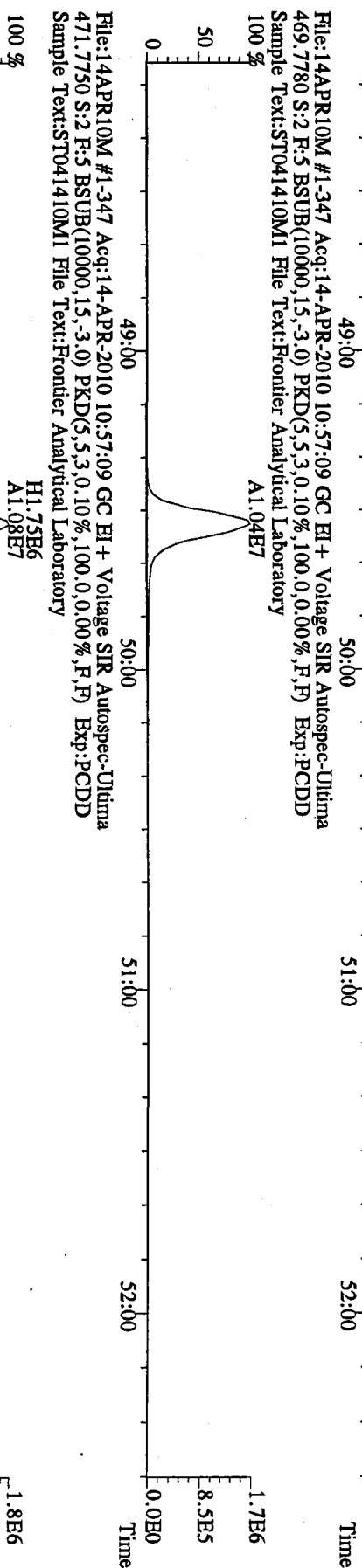
File:14APR10M #1-541 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



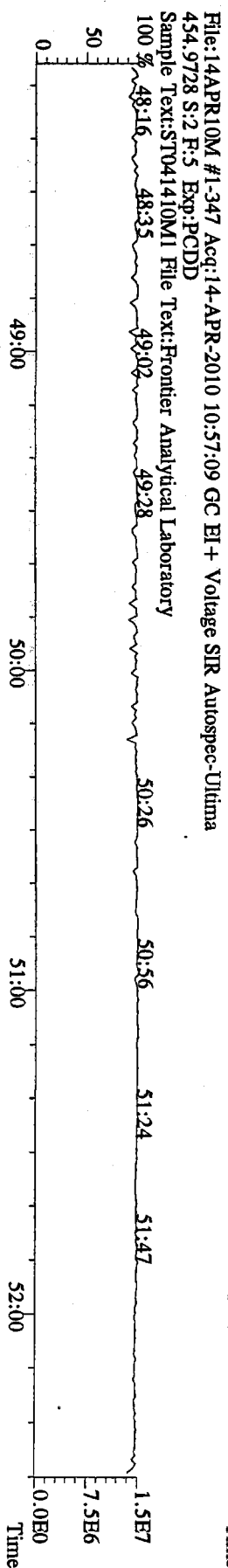
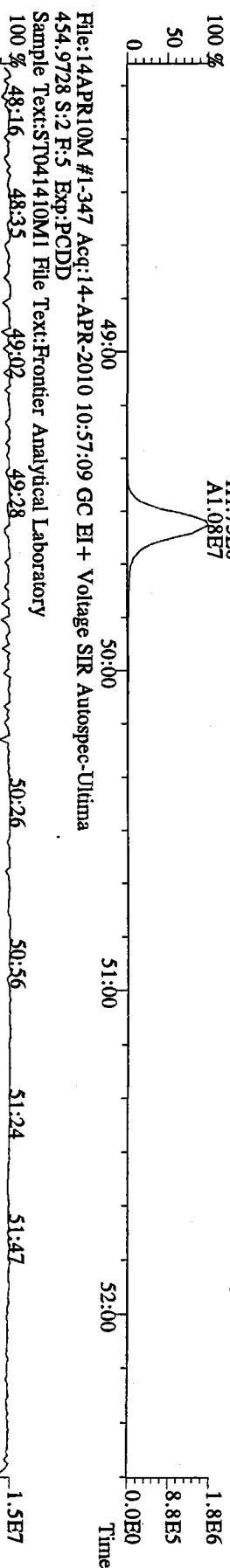
File:14APR10M #1-347 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



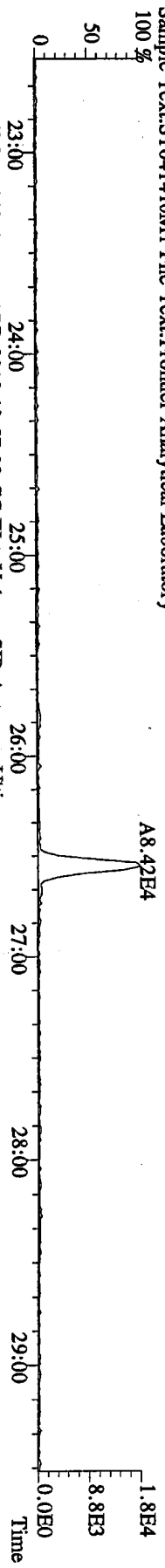
File:14APR10M #1-347 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



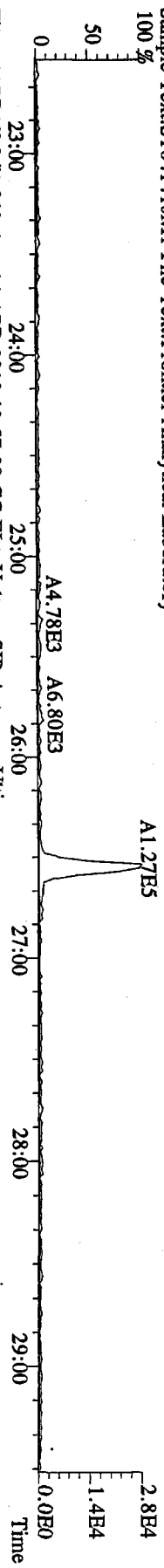
File:14APR10M #1-347 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



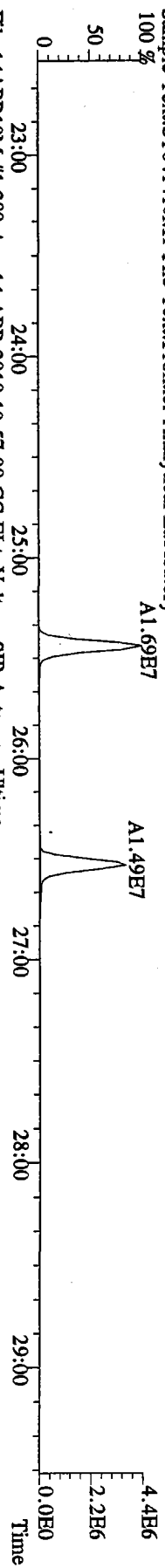
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



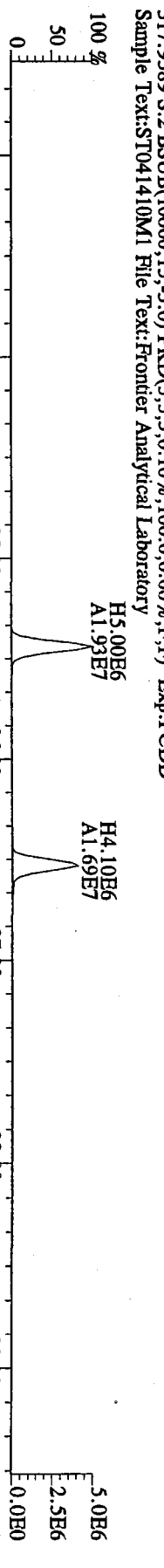
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



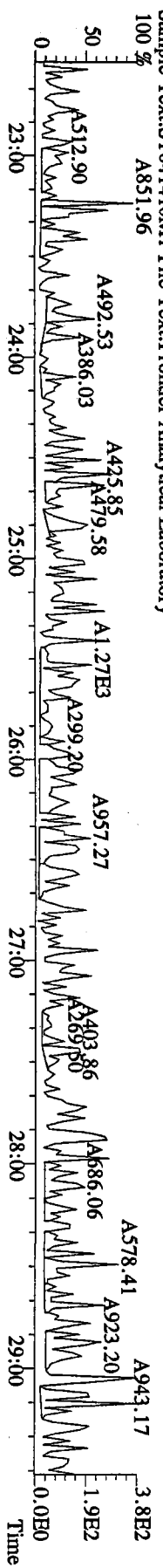
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



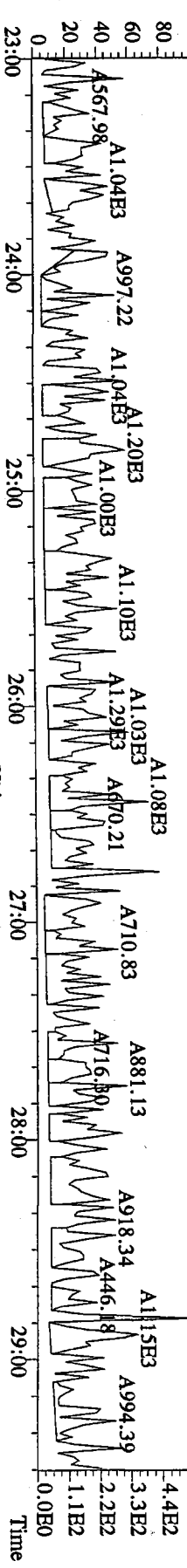
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



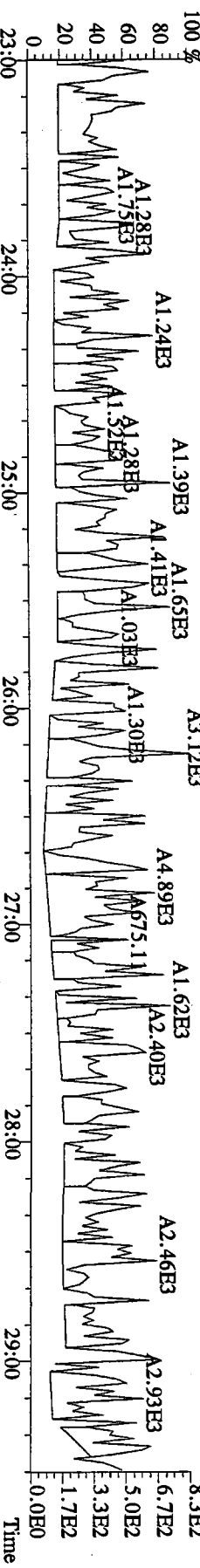
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



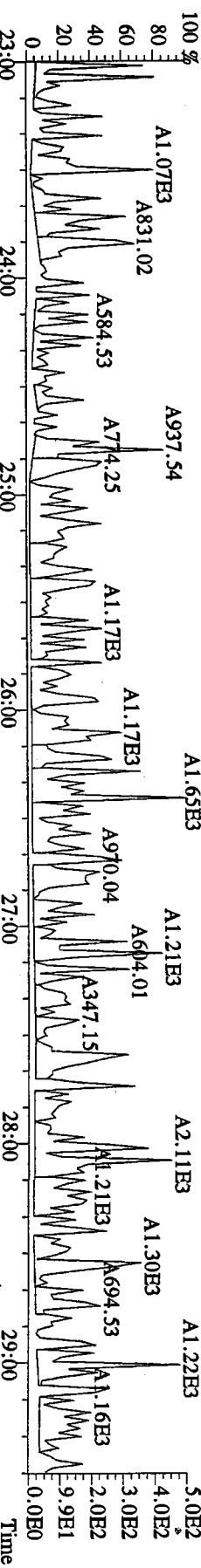
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S.2: BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



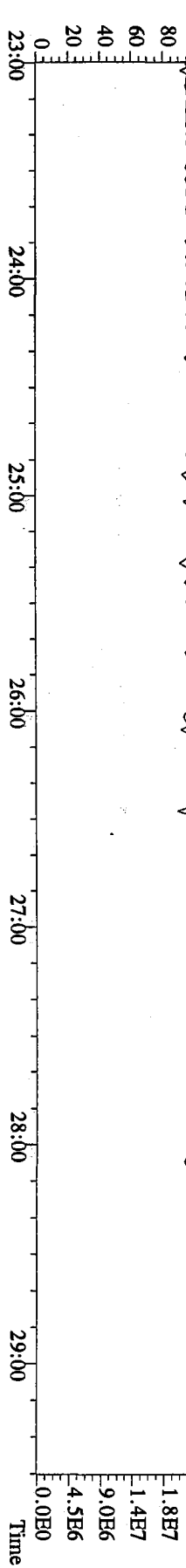
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S.2: BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



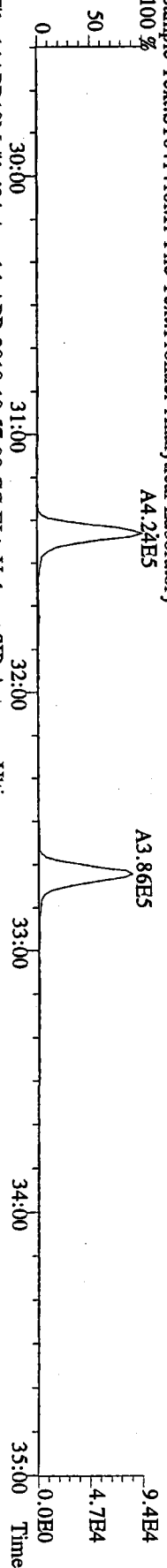
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S.2: BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



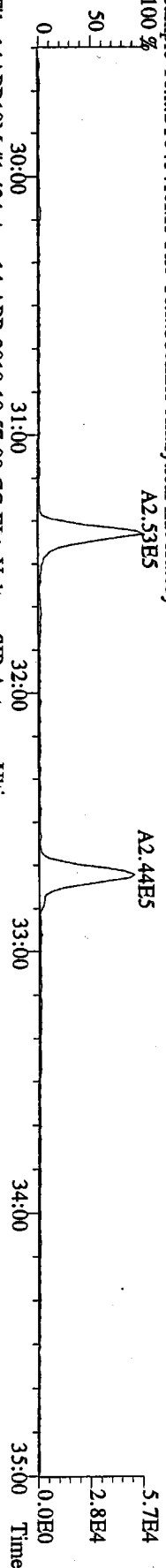
File:14APR10M #1-390 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S.2: Exp:PCDD
 Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



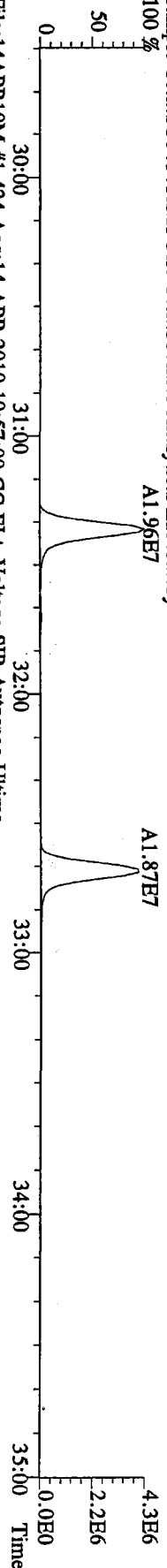
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



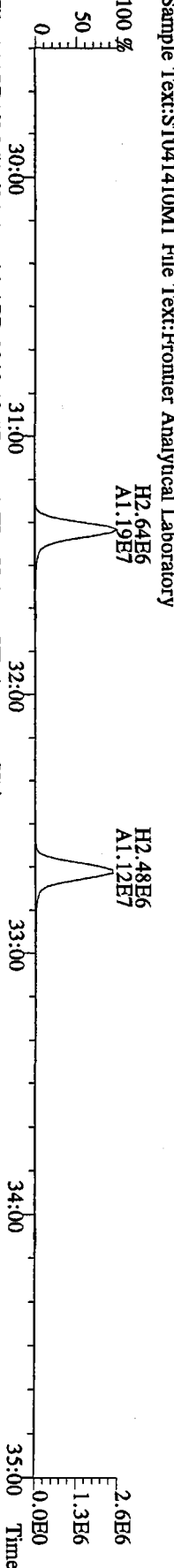
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



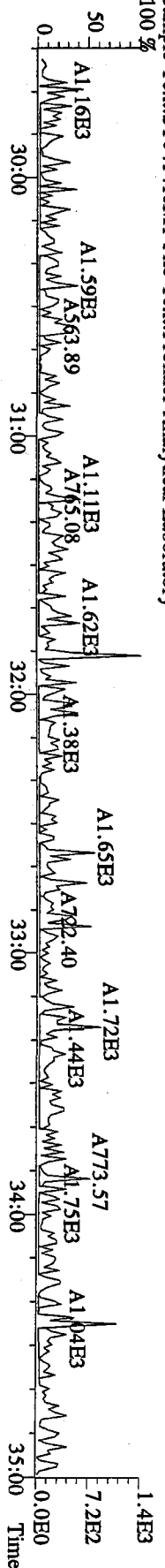
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



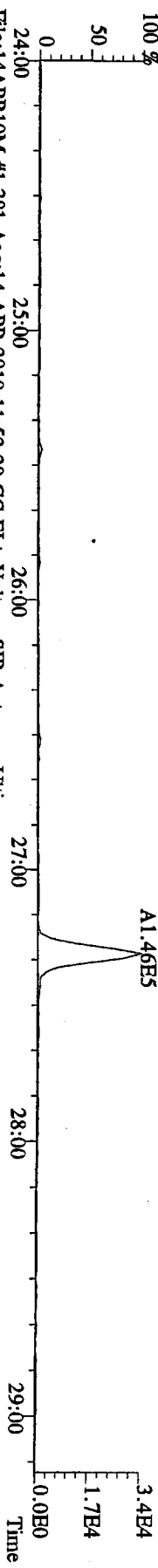
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



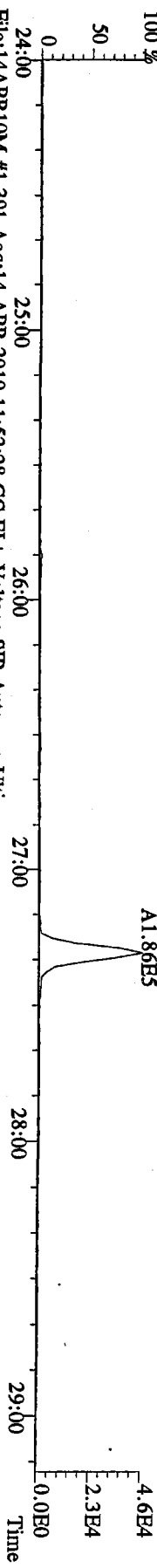
File:14APR10M #1-424 Acq:14-APR-2010 10:57:09 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M1 File Text:Frontier Analytical Laboratory



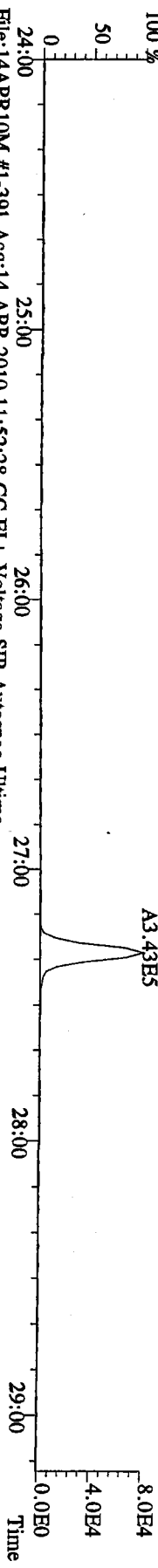
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



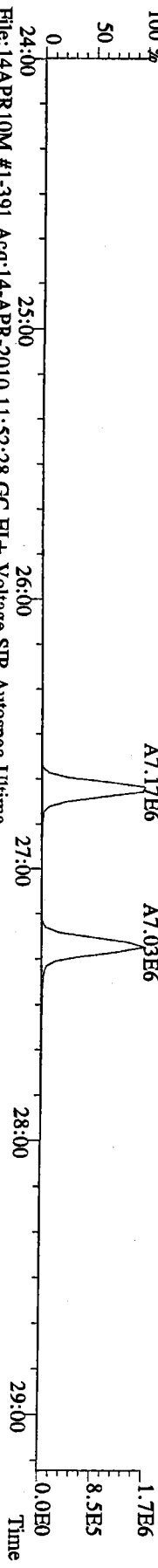
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



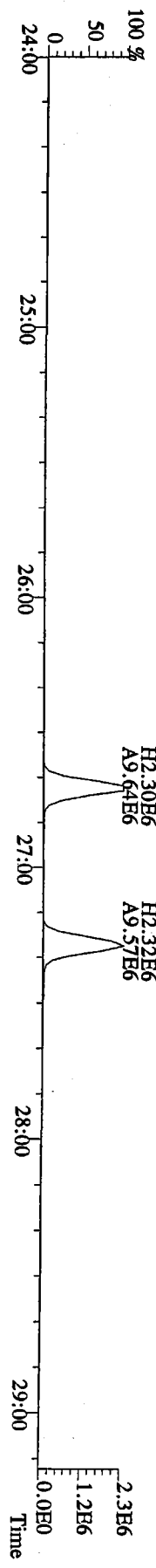
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



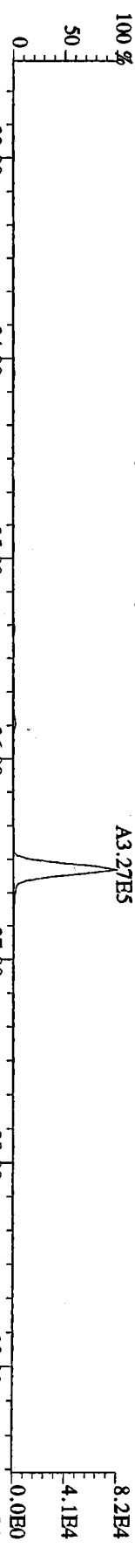
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



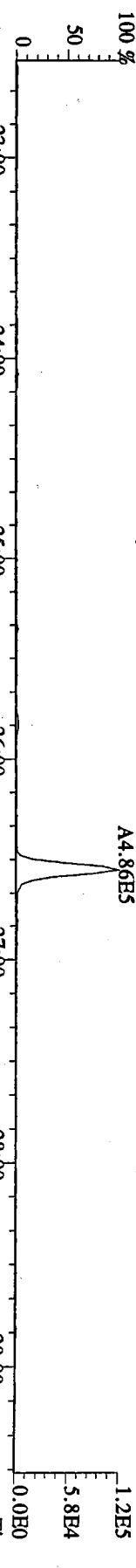
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



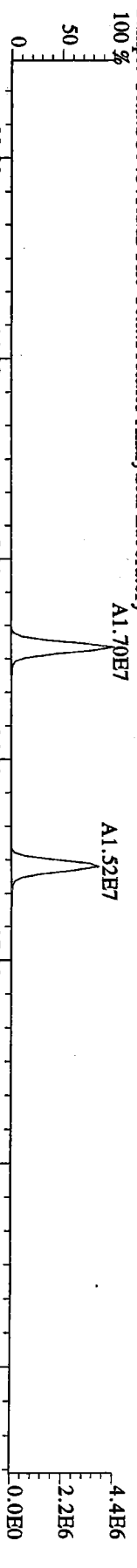
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



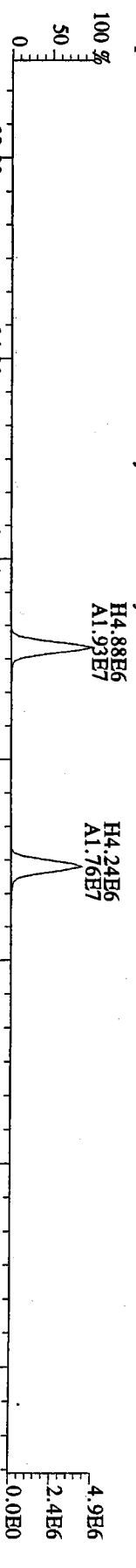
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



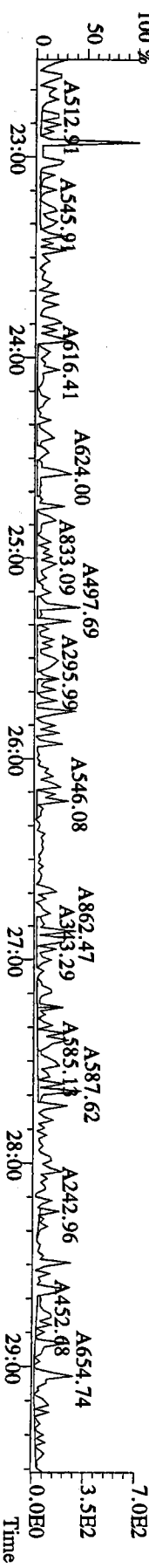
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



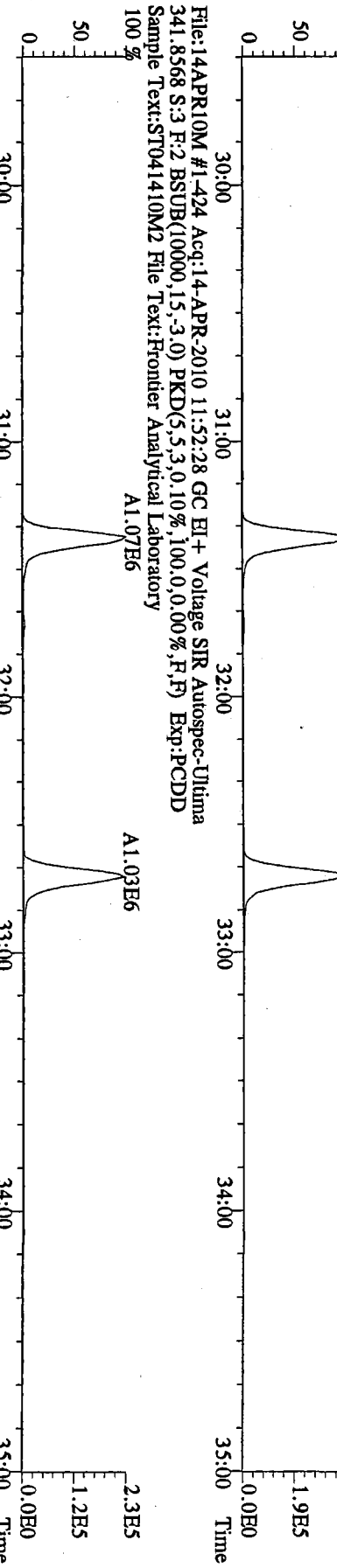
File:14APR10M #1-391 Acq:14-APR-2010 11:52:28 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



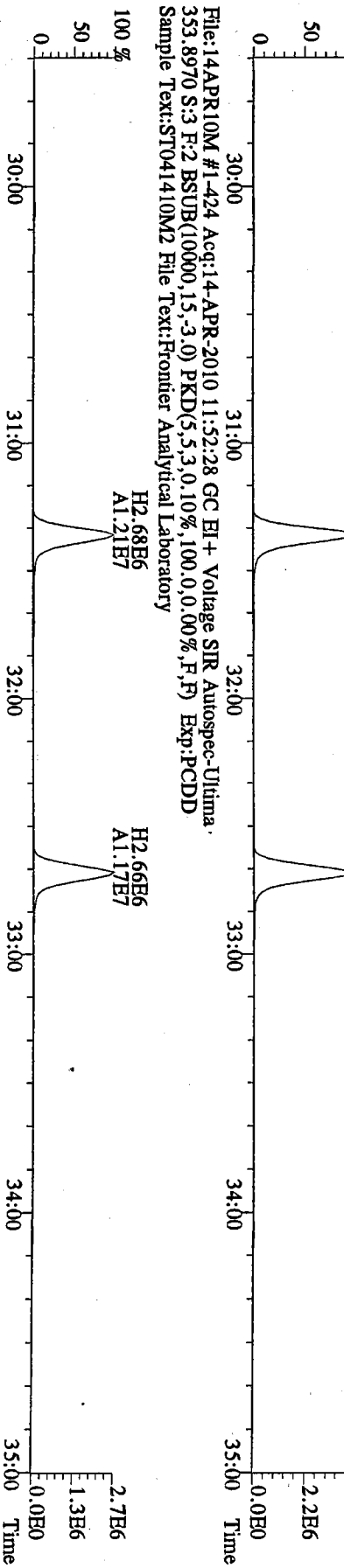
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 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



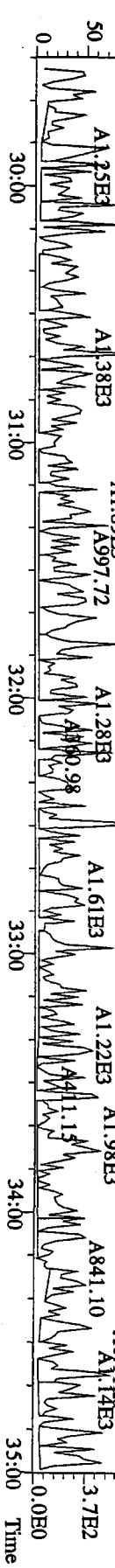
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 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



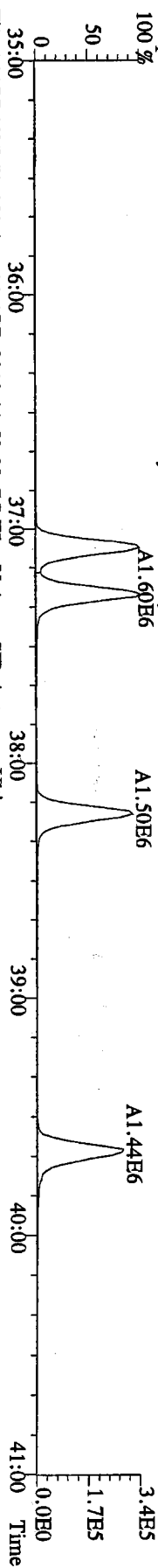
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 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



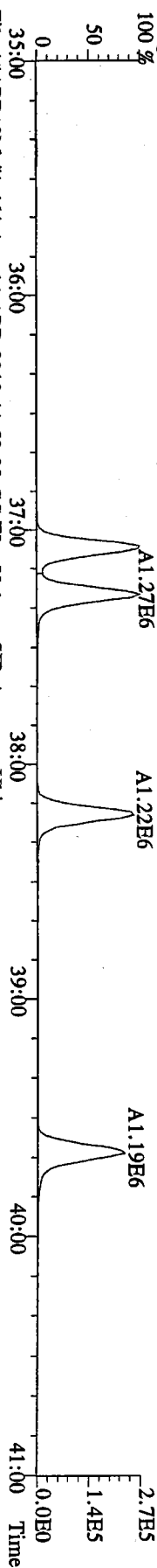
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 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



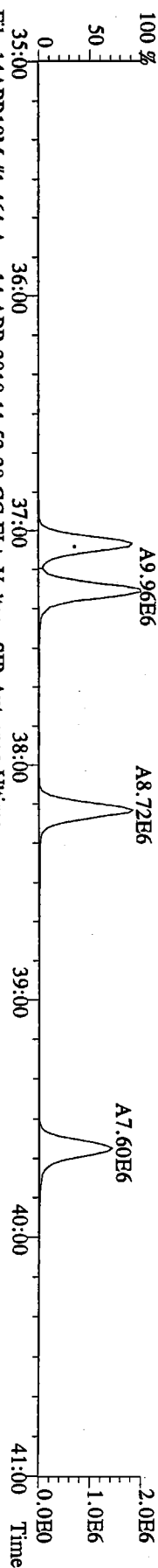
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373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



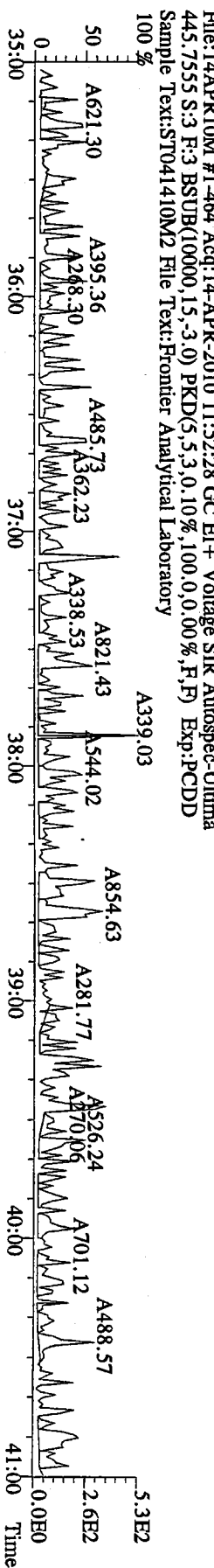
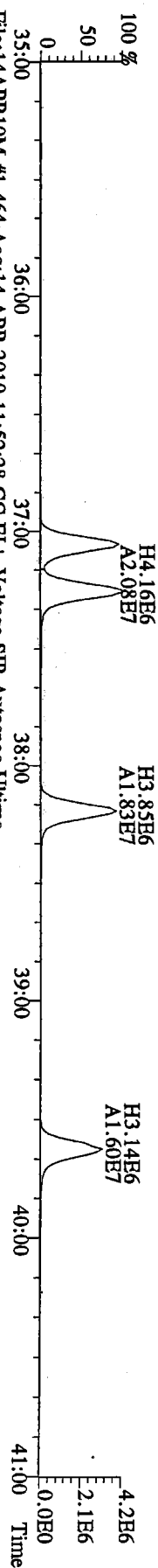
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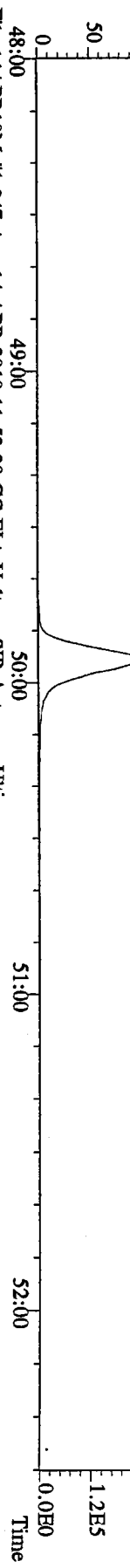
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Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



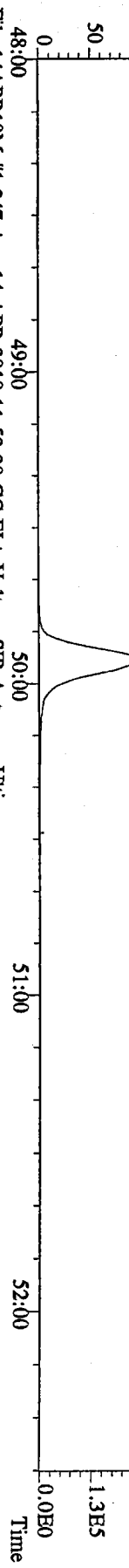
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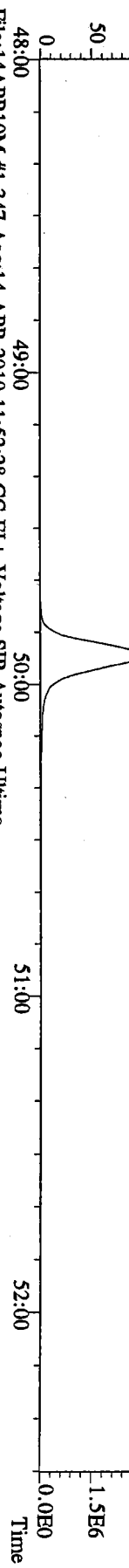
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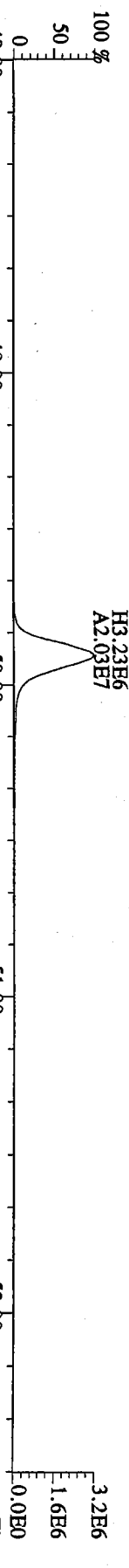
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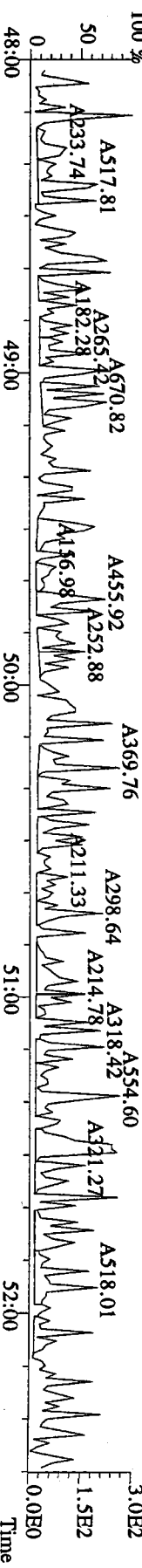
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



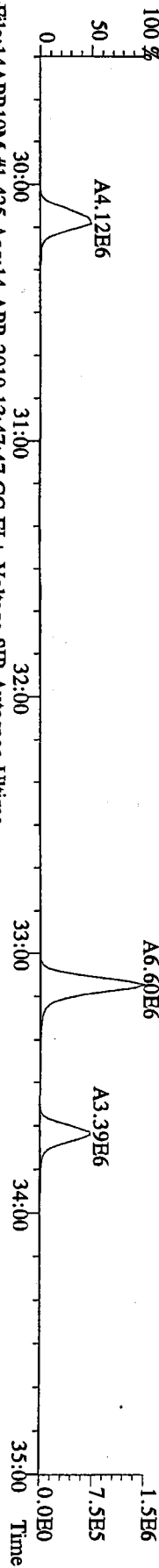
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 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



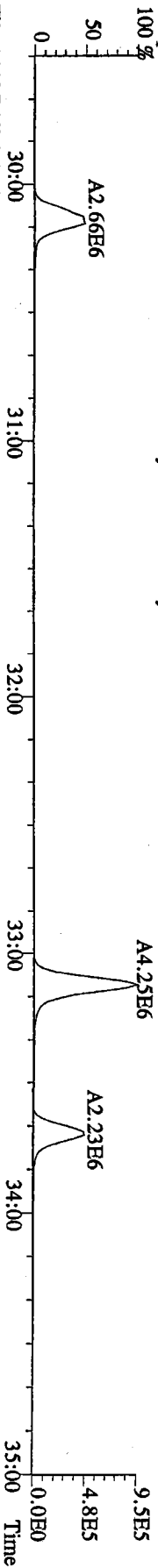
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 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M2 File Text:Frontier Analytical Laboratory



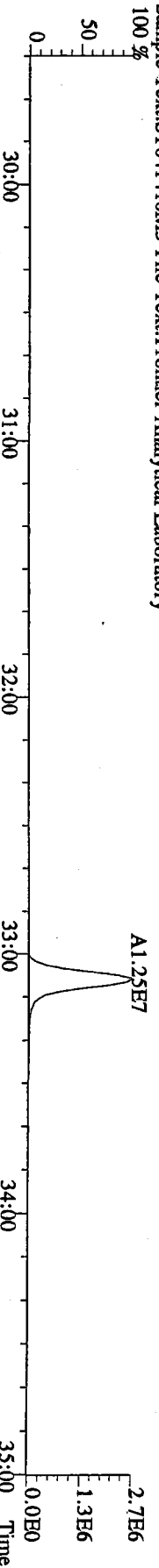
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 355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



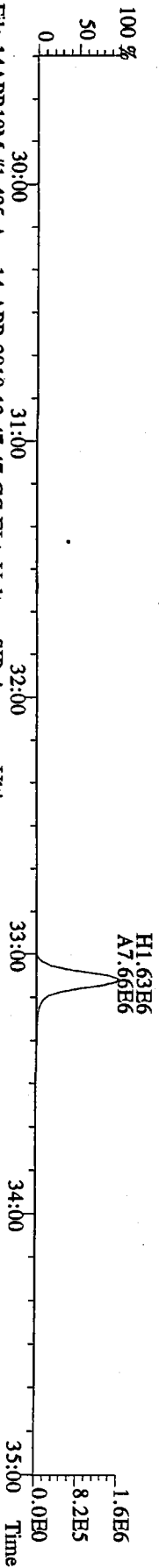
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 357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



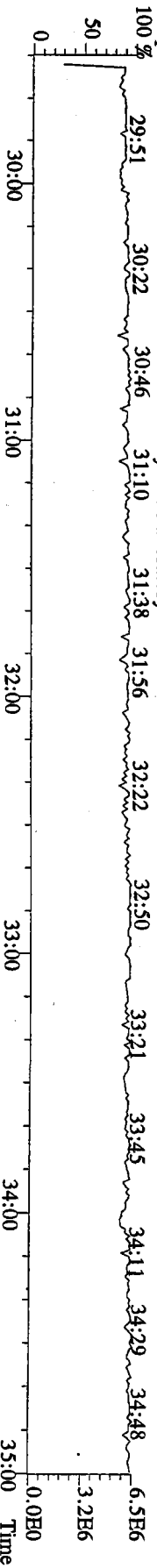
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 367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



File:14APR10M #1-425 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory

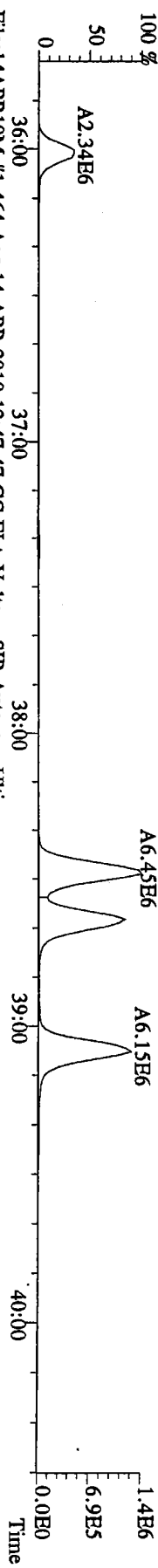


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 366.9792 S:4 F:2 Exp:PCDD
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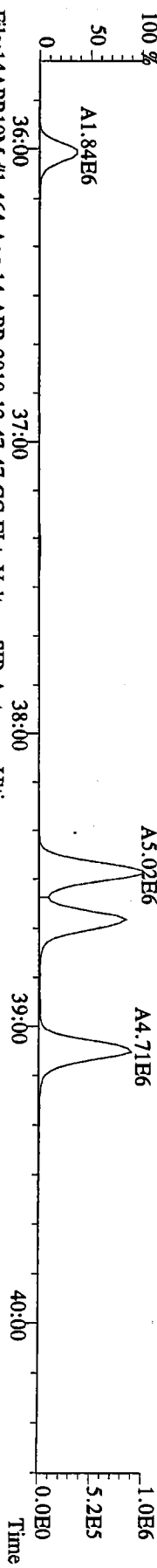


21980 : 012003

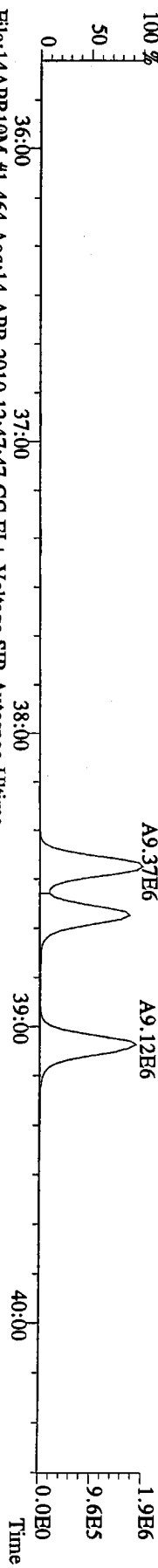
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 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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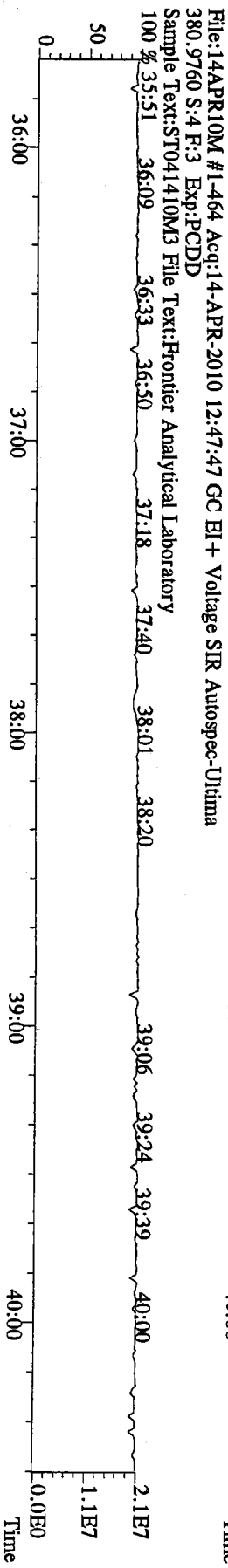
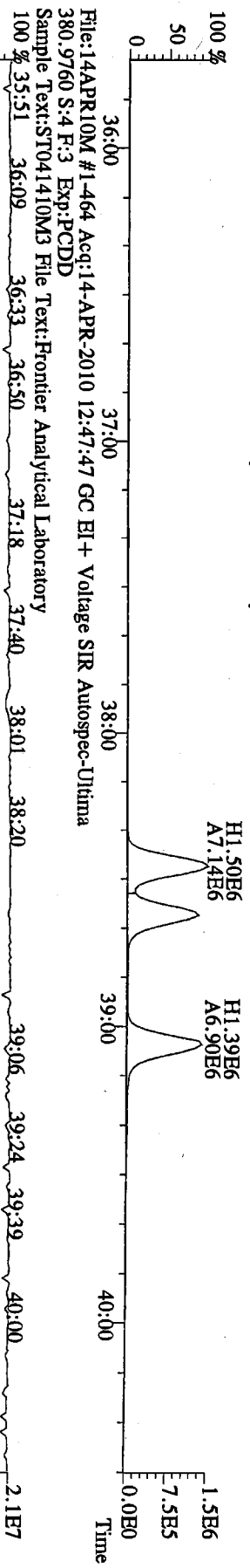
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 391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



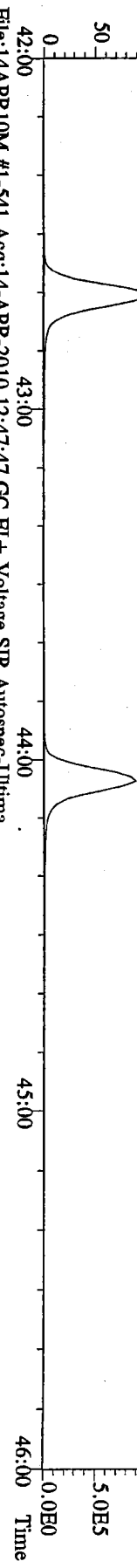
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 401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



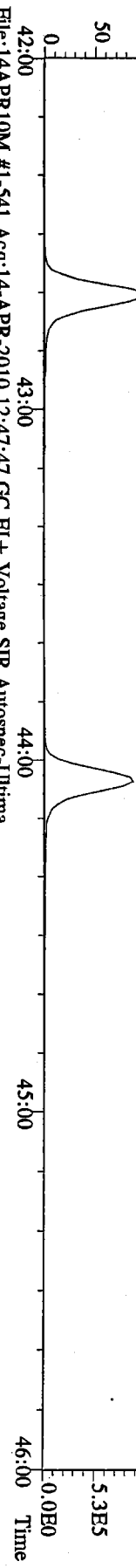
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 403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



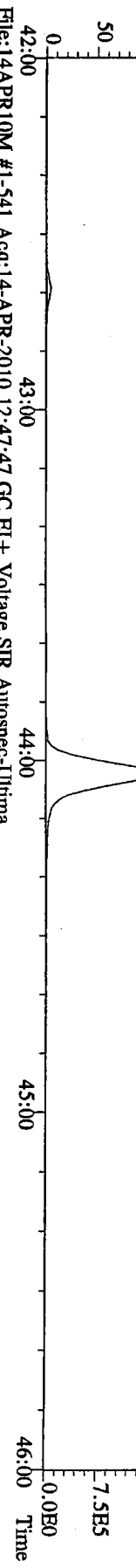
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



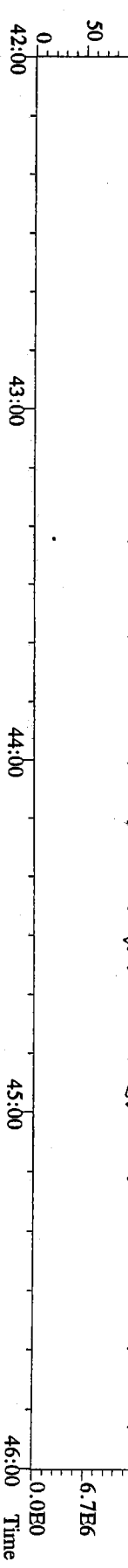
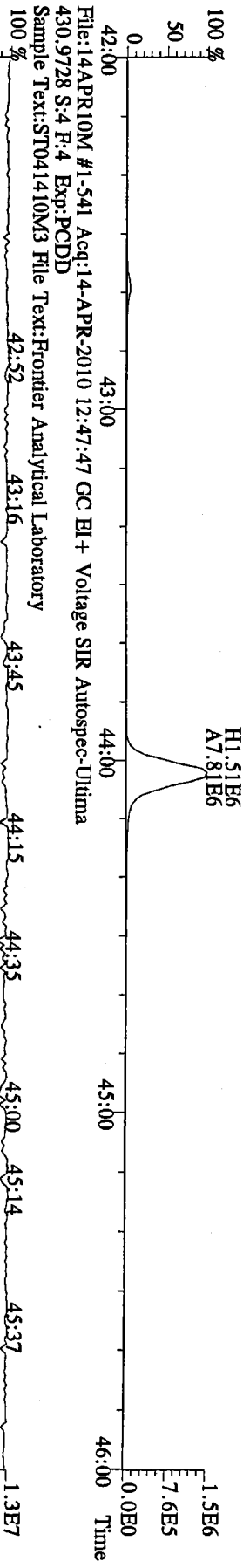
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425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



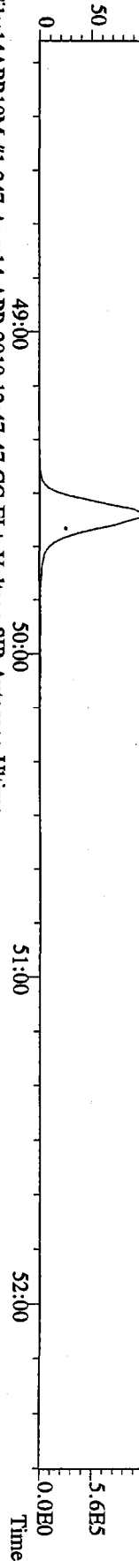
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Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



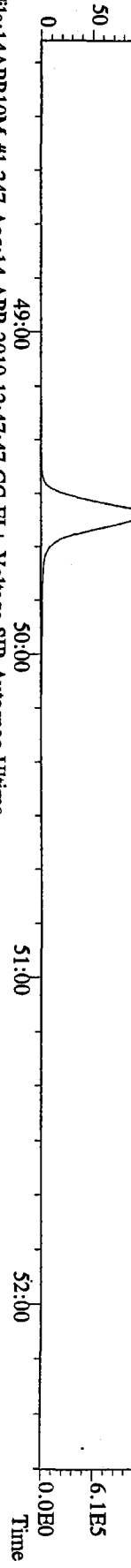
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437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 %



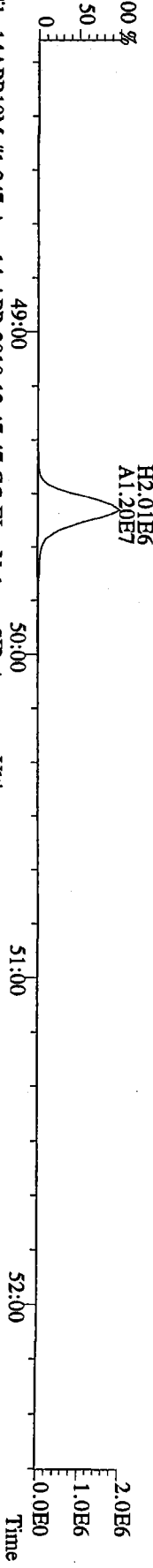
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 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 %



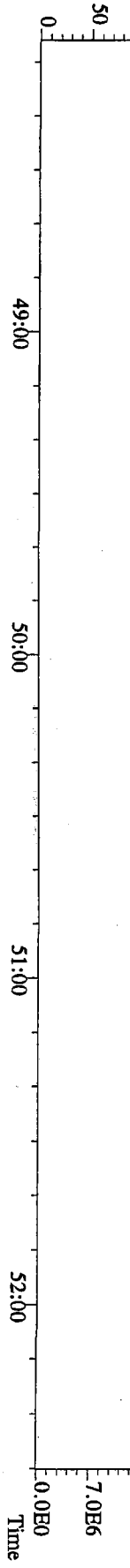
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 469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
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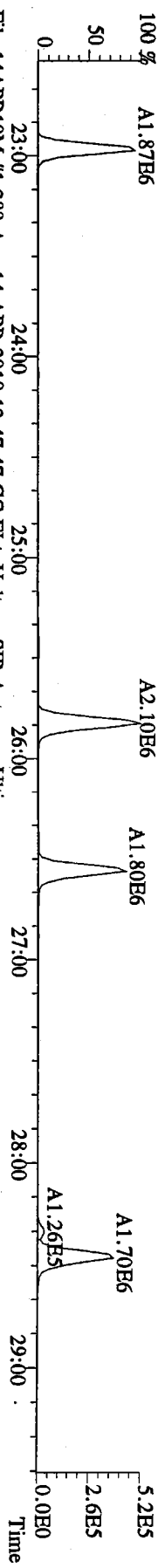
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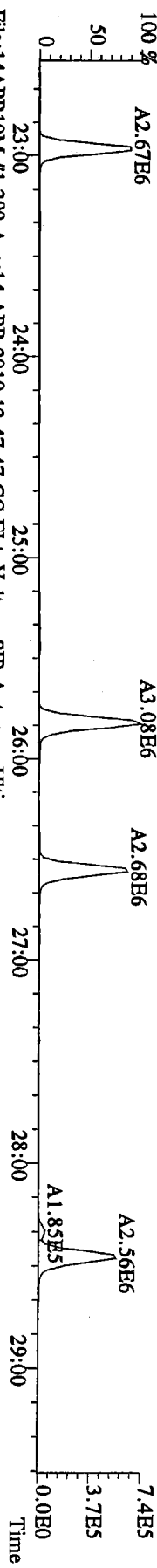
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 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



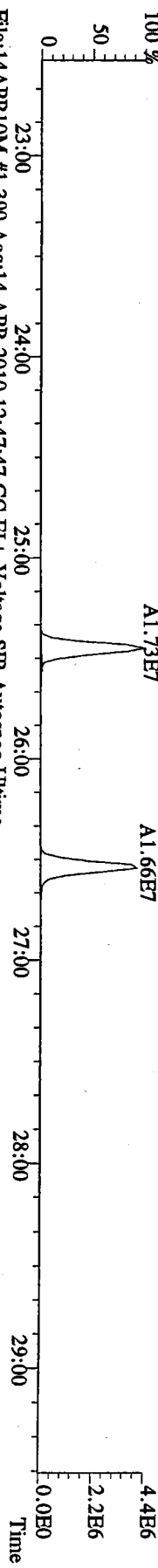
File:14APR10M #1-390 Acq:14-APR-2010 12:47:47 GC EI + Voltage SIR Autospec-Ultima
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



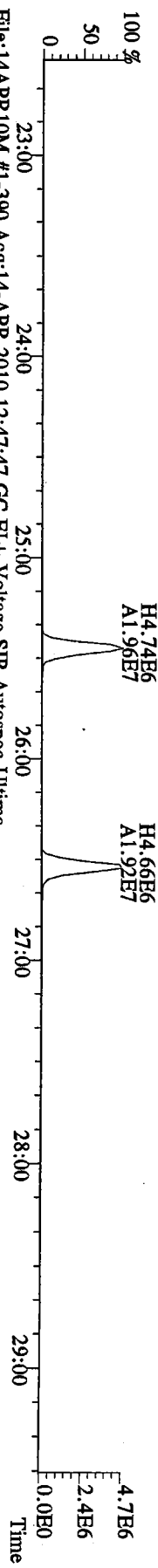
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 305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



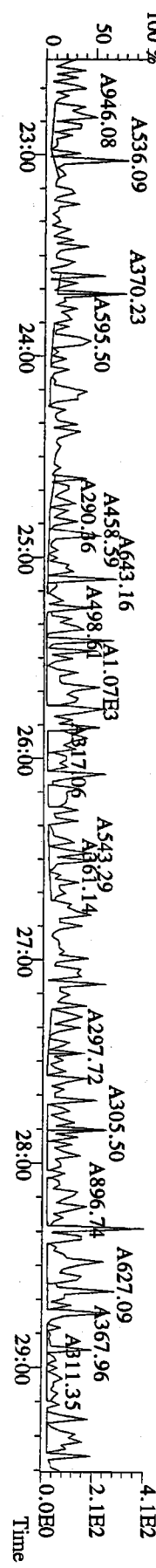
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 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



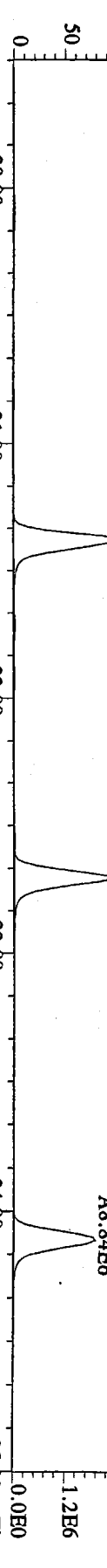
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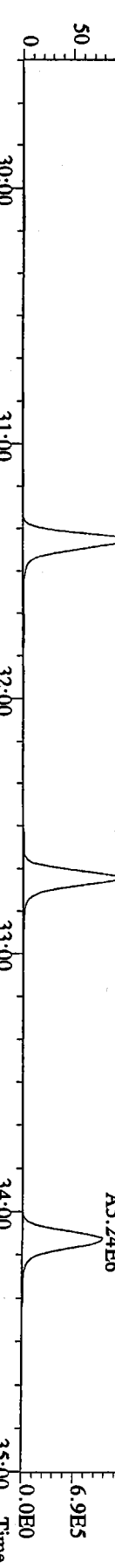
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 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



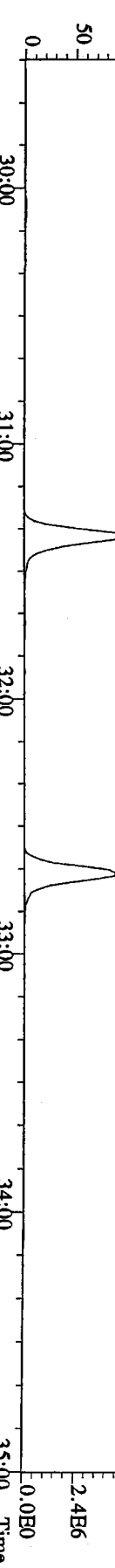
File:14APR10M #1-425 Acq:14-APR-2010 12:47:47 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



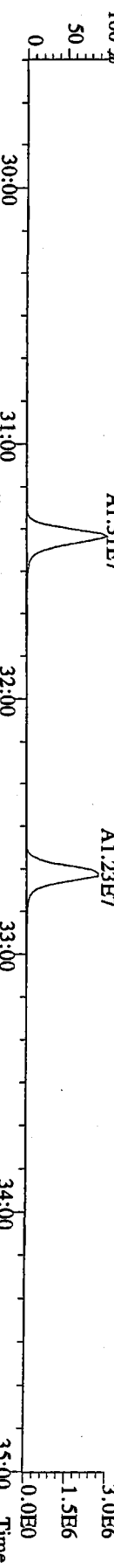
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 341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



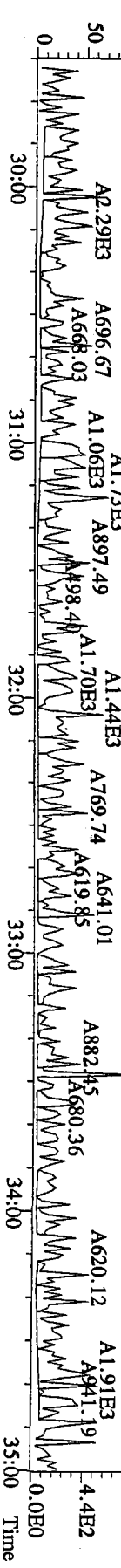
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 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



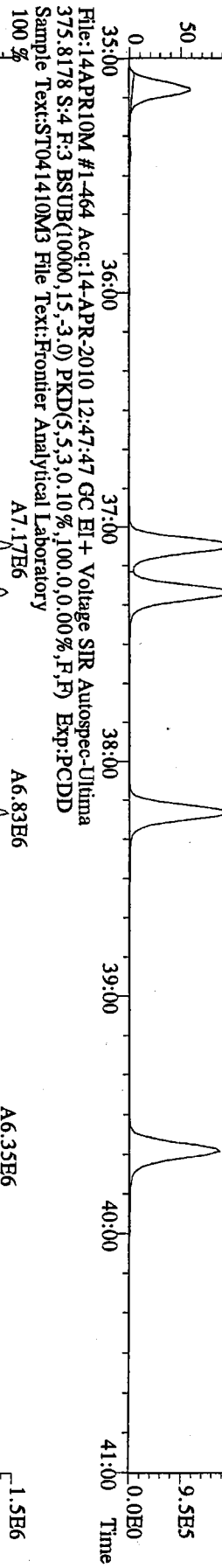
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 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



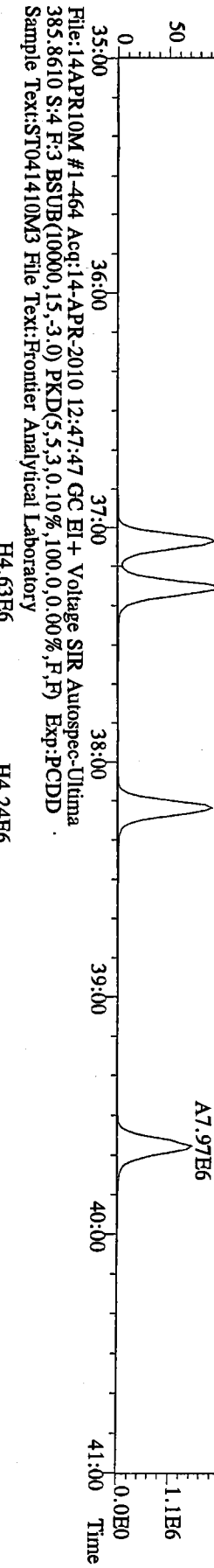
File:14APR10M #1-425 Acq:14-APR-2010 12:47:47 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



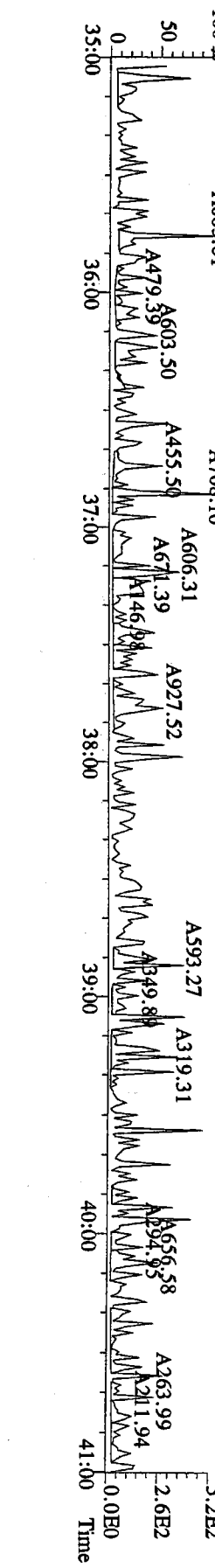
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 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



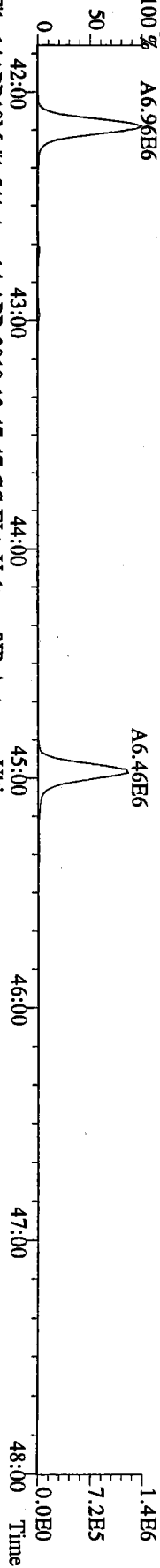
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 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



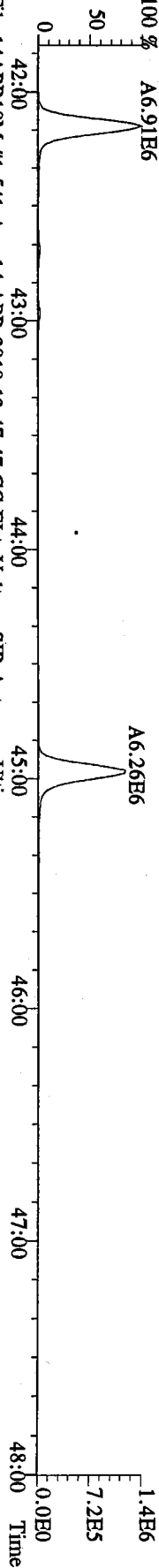
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 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



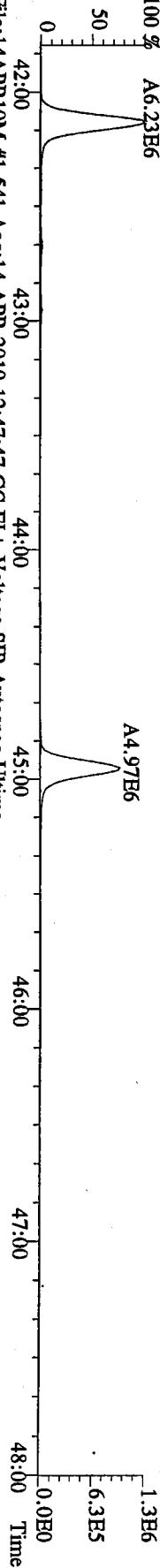
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 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 % A6.96E6



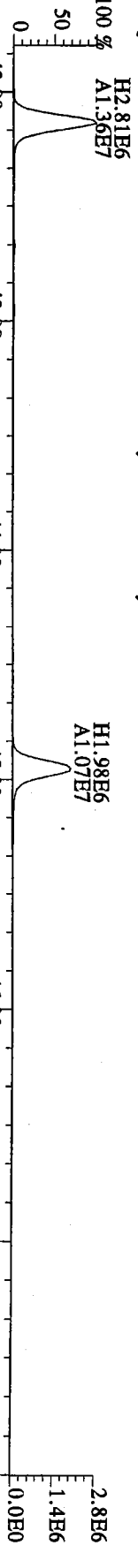
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 409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 % A6.91E6



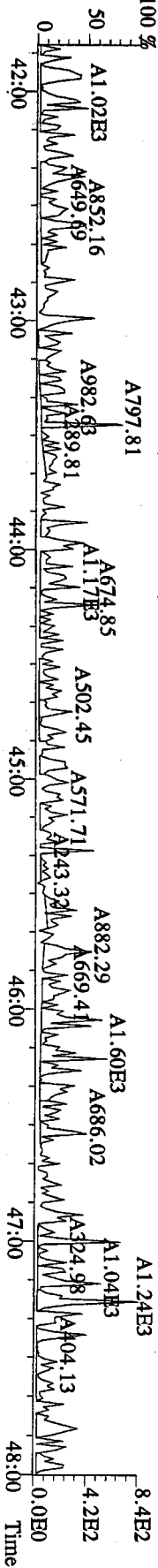
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 417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
 100 % A6.23E6



File:14APR10M #1-541 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Utima
 419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory

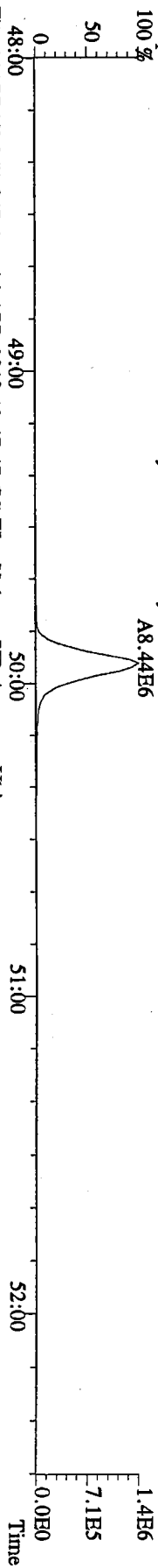


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 479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory

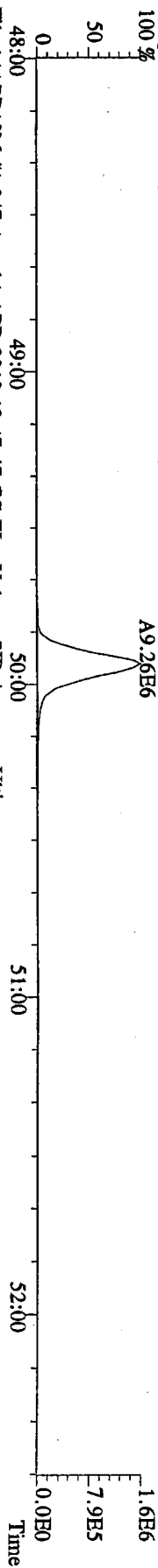


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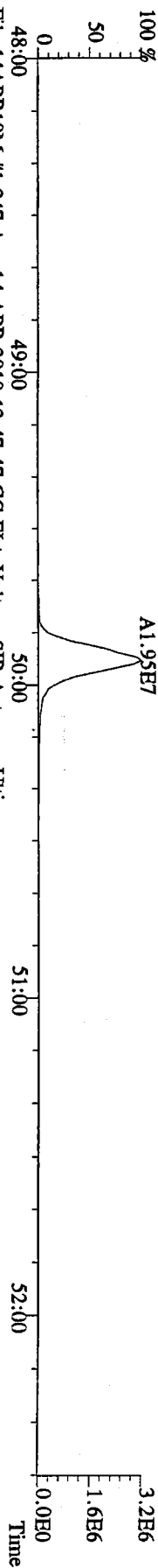
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441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



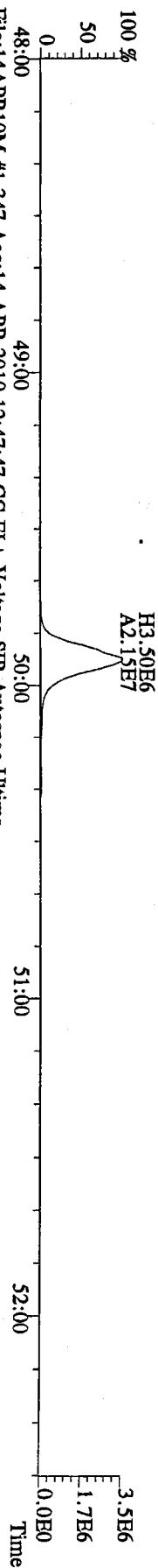
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443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



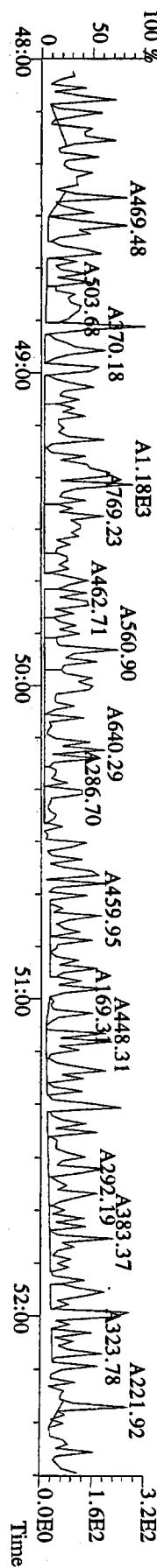
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453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



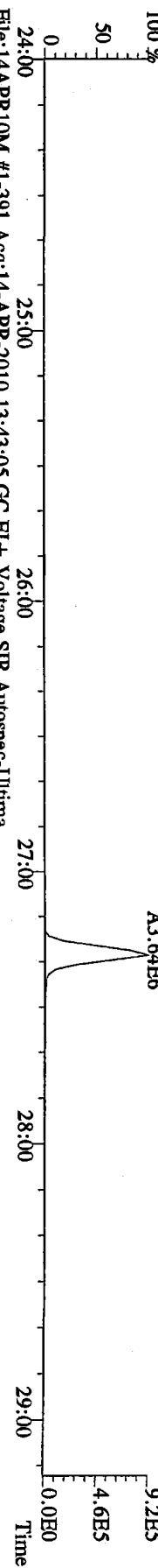
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455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



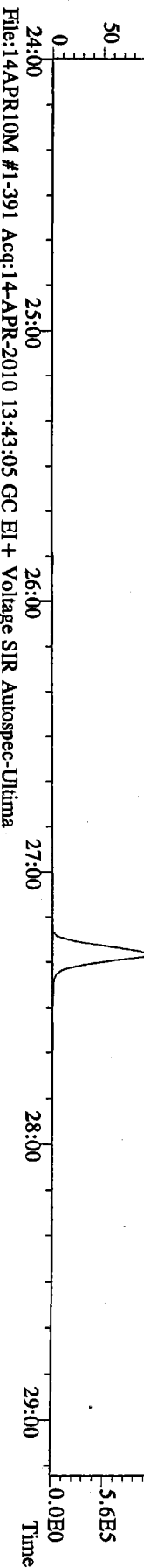
File:14APR10M #1-347 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



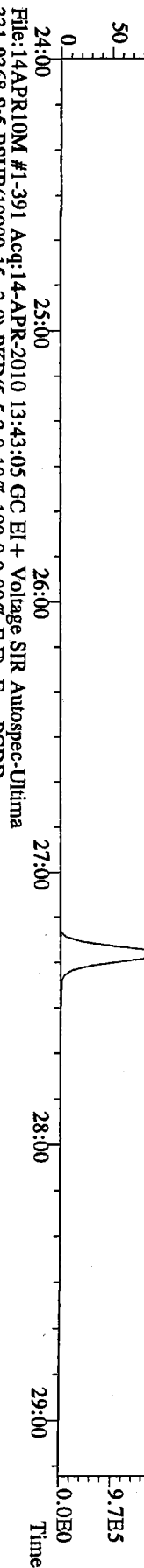
File:14APR10M #1-391 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



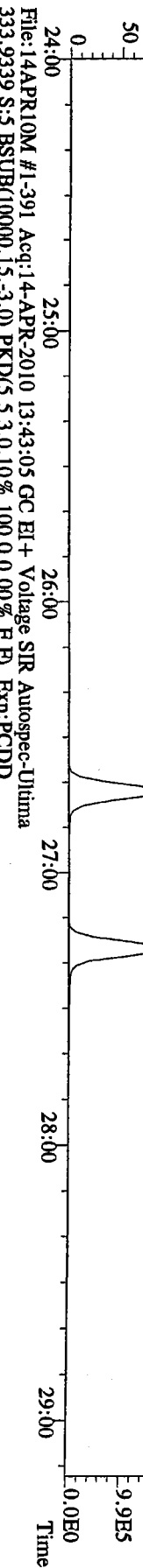
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321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



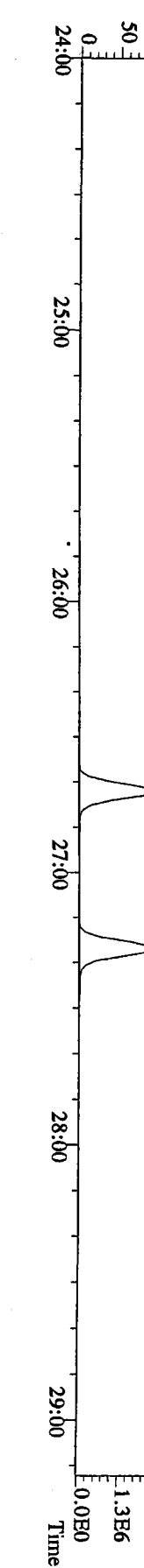
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



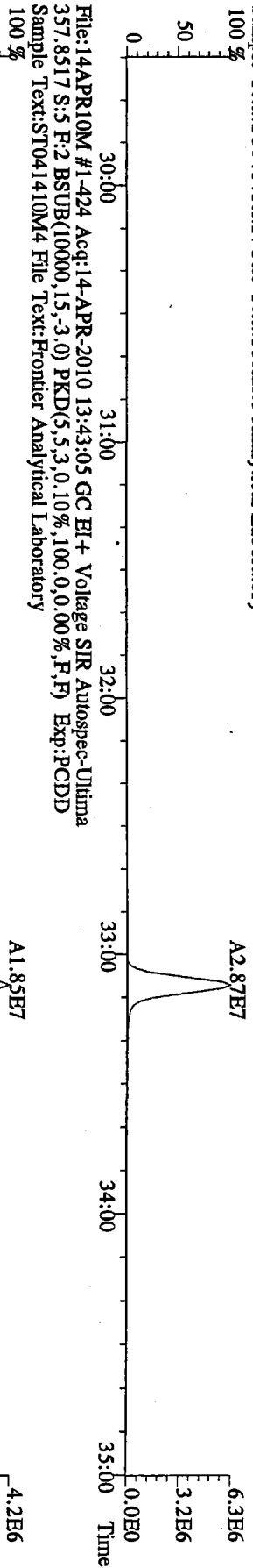
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331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



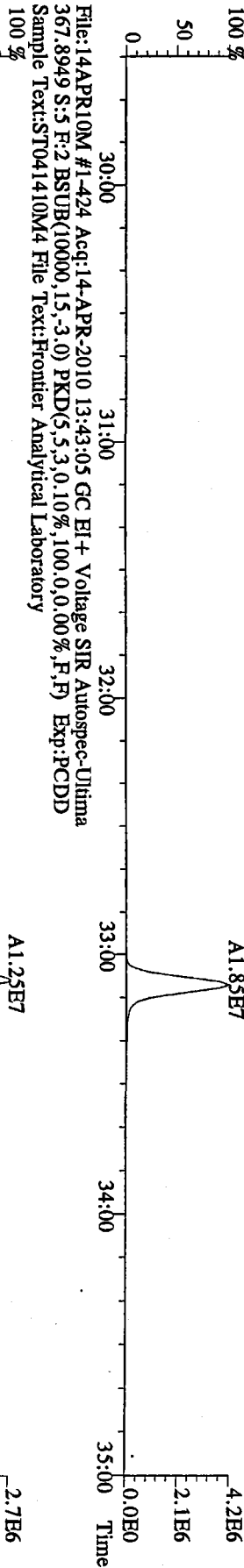
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333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



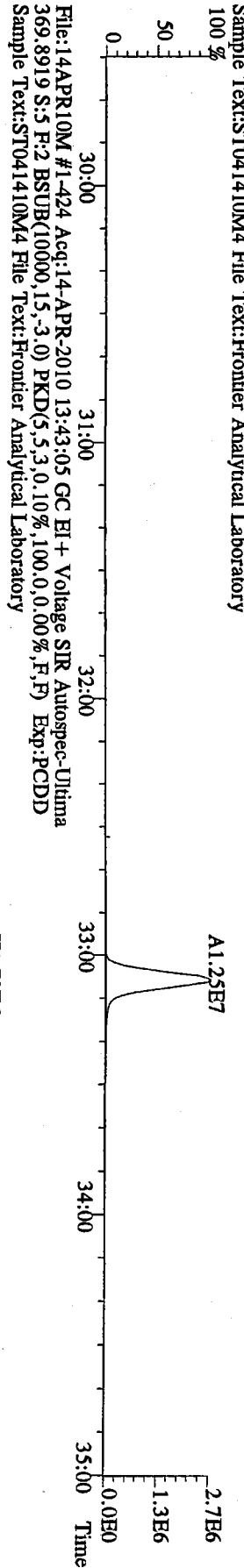
File:14APR10M #1-424 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



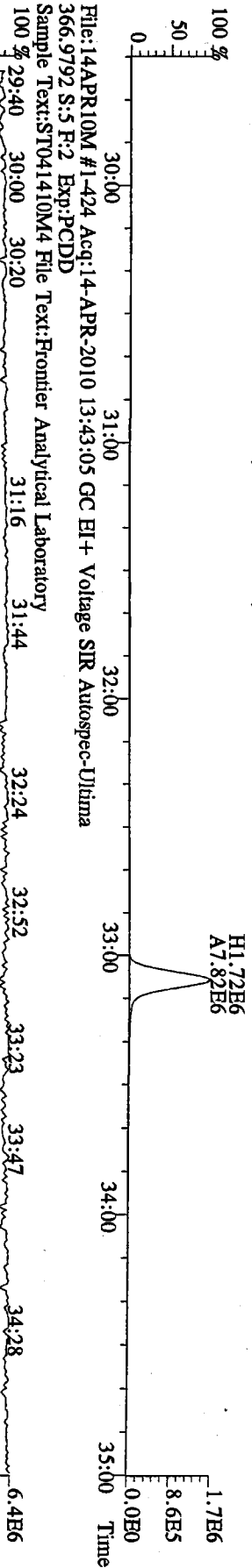
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357.8517 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



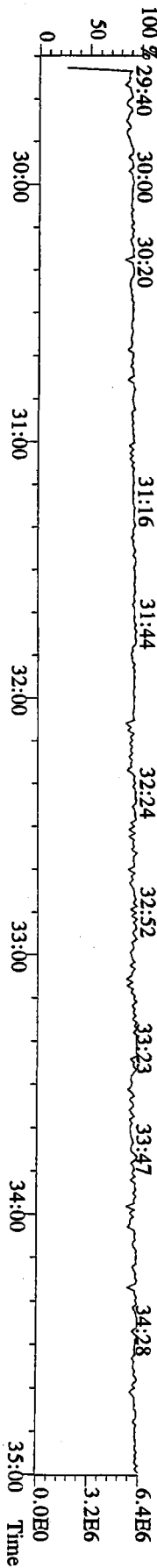
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367.8949 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



File:14APR10M #1-424 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory

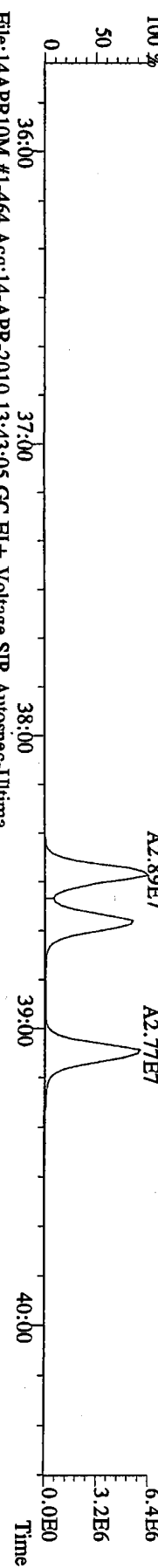


File:14APR10M #1-424 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory

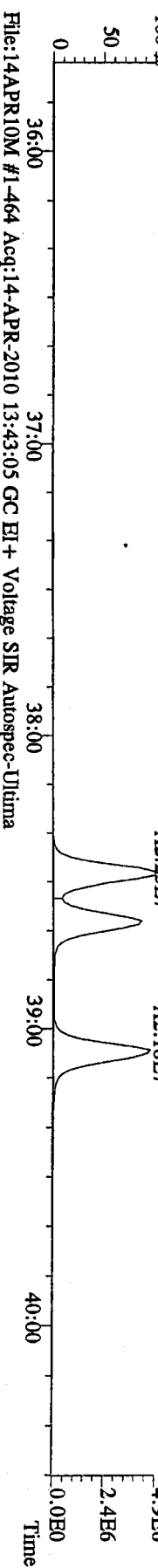


File:14APR10M #1-424 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory

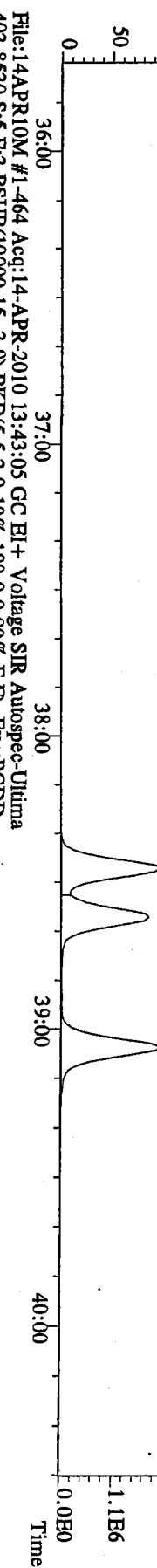
File:14APR10M #1-464 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Fronier Analytical Laboratory



File:14APR10M #1-464 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Fronier Analytical Laboratory



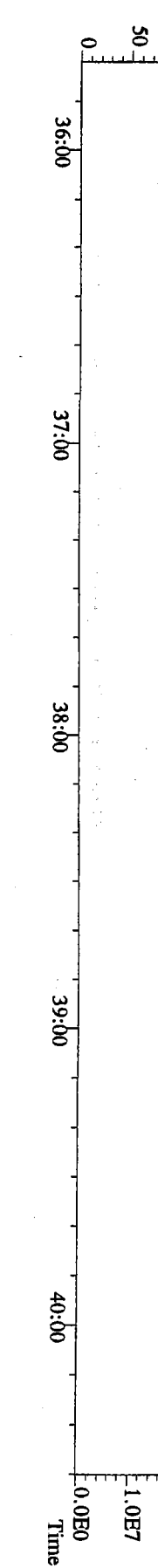
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 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Fronier Analytical Laboratory



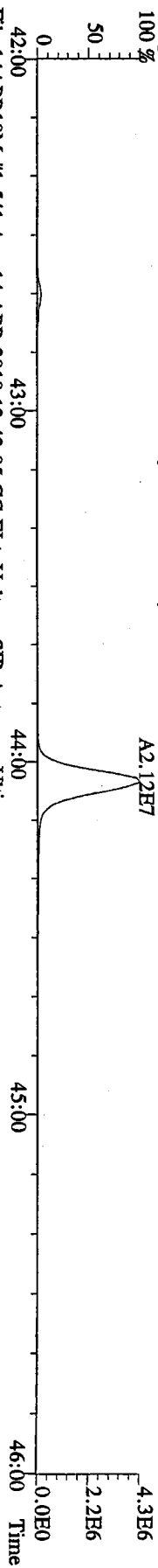
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 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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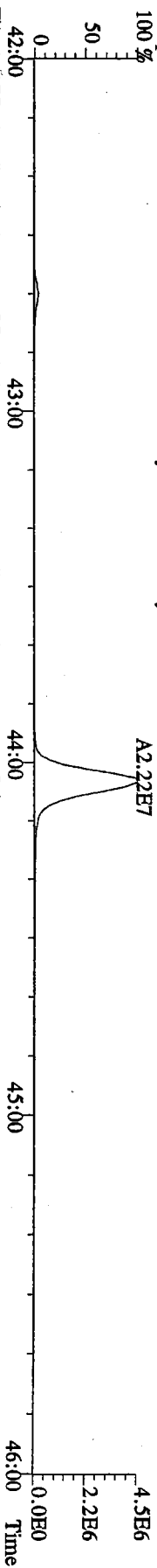
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 380.9760 S:5 F:3 Exp:PCDD
 Sample Text:ST041410M4 File Text:Fronier Analytical Laboratory



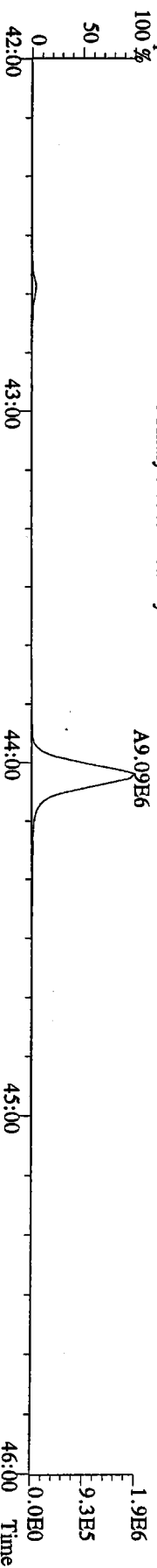
File:14APR10M #1-541 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



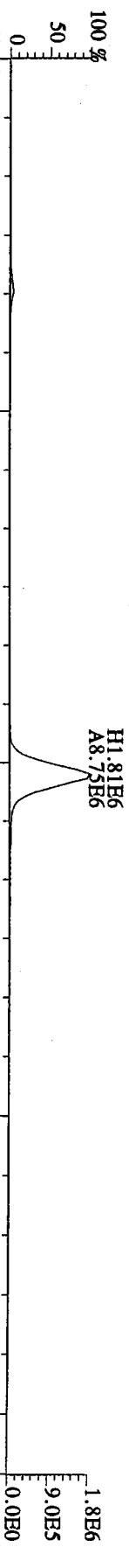
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425.7737 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



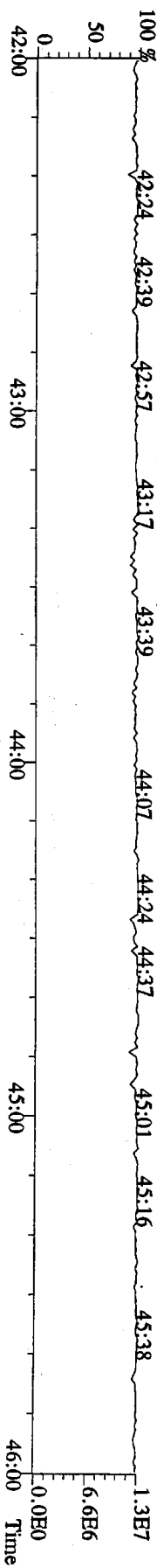
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435.8169 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



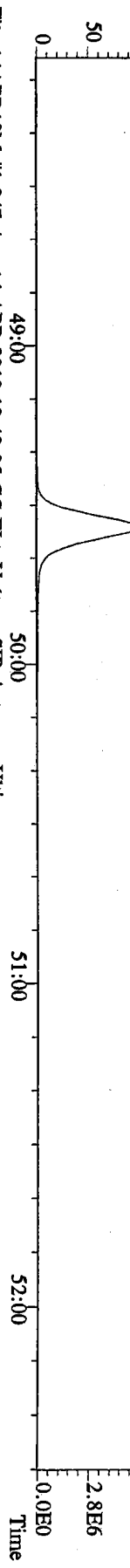
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437.8140 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



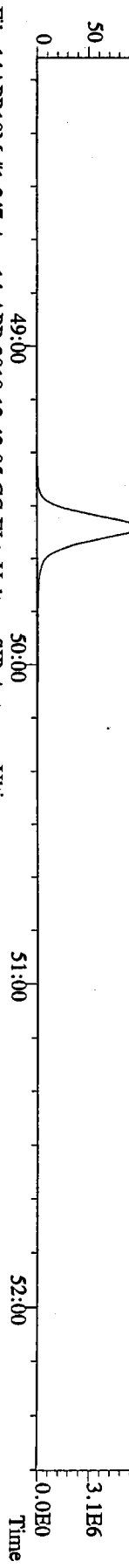
File:14APR10M #1-541 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:5 F:4 Exp.:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



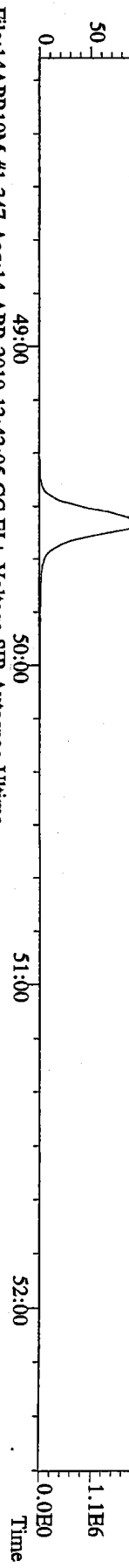
File:14APR10M #1-347 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



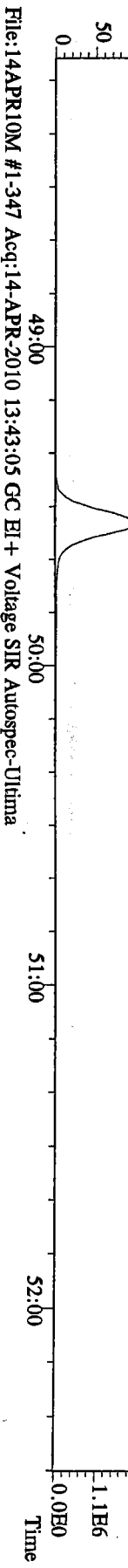
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459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



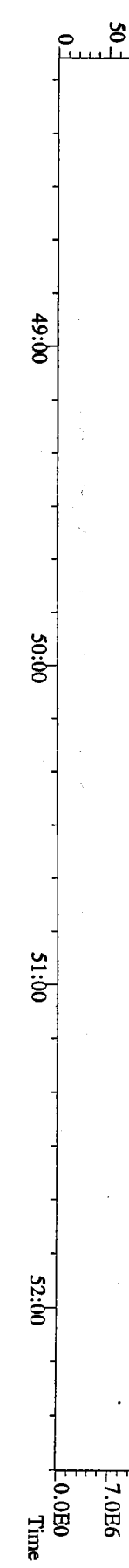
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469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



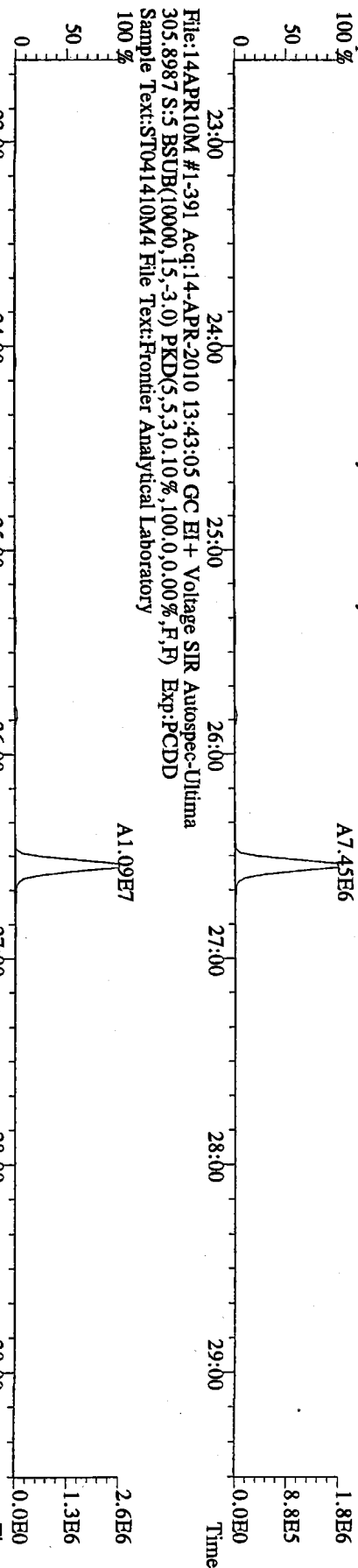
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471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



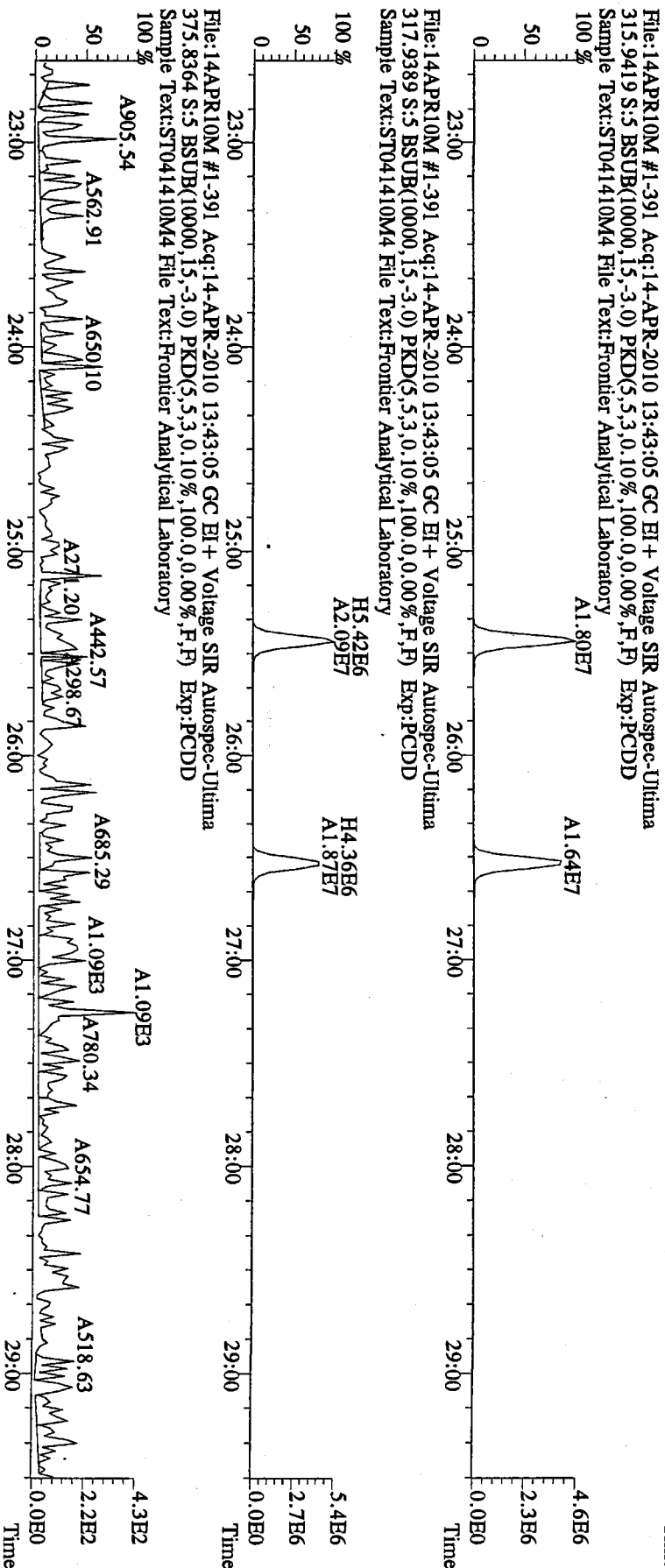
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454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
100 %



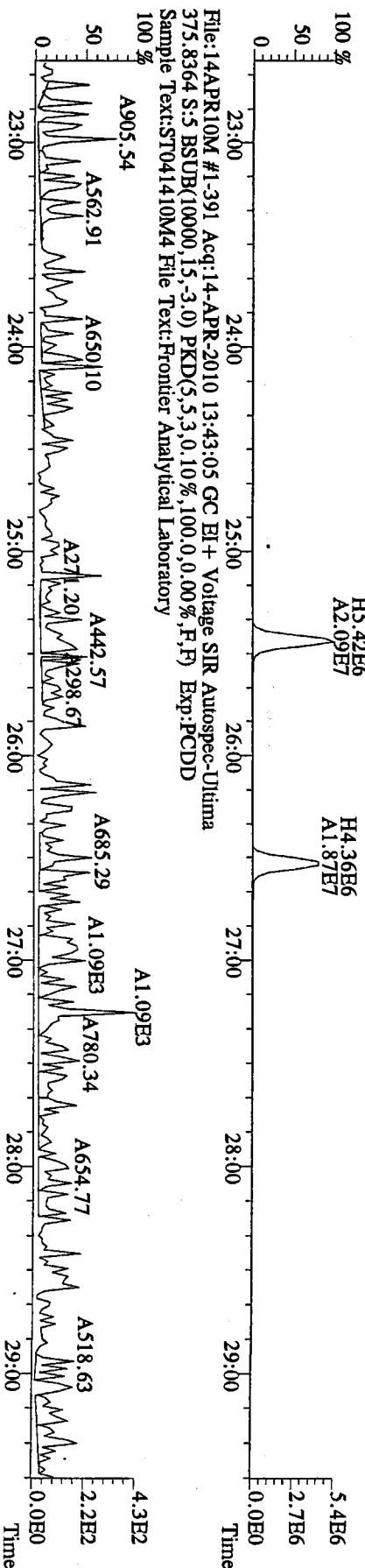
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 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



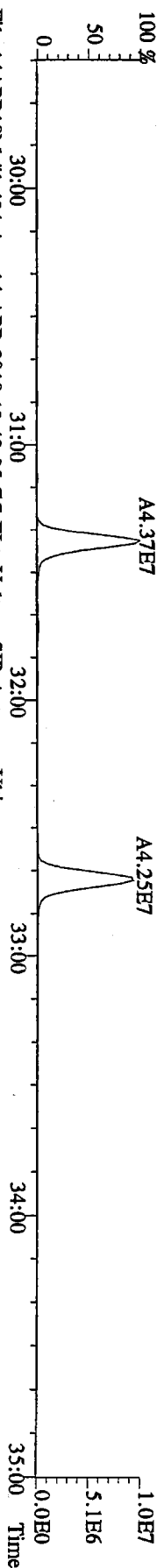
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 315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



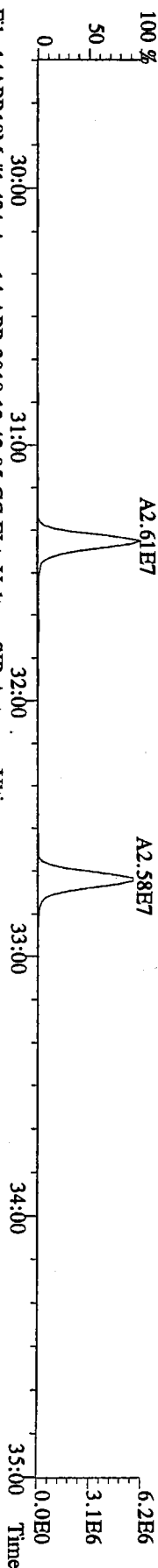
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 375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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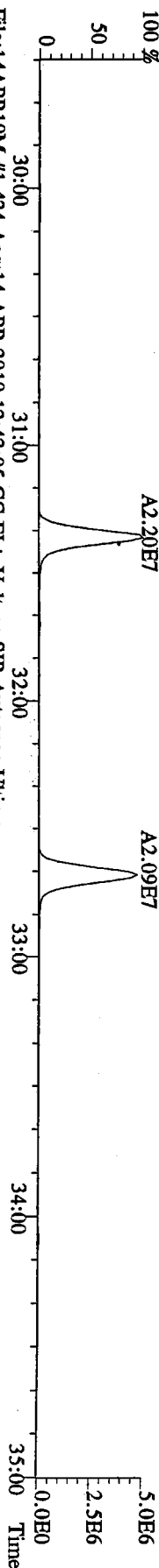
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 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



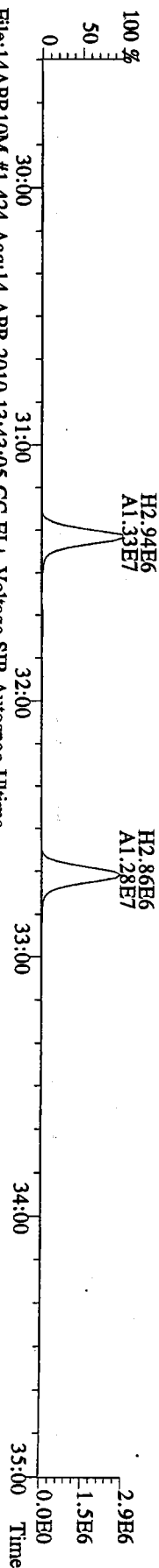
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 341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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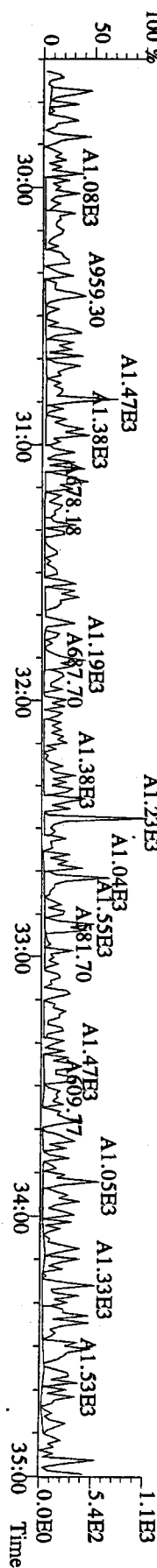
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 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



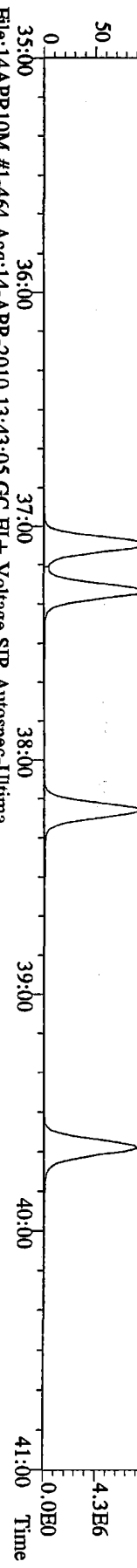
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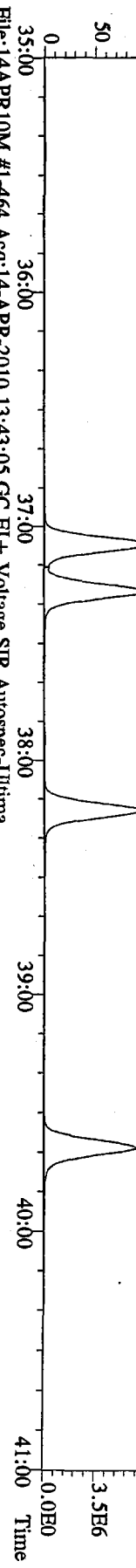
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 409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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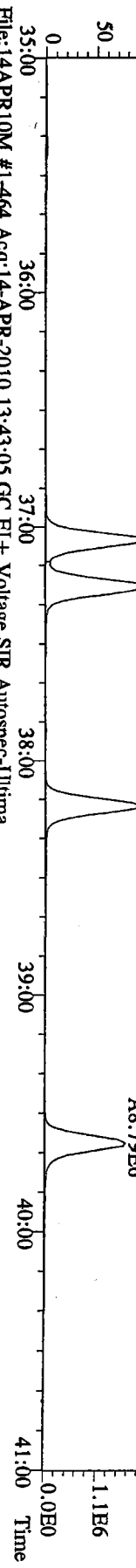
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 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



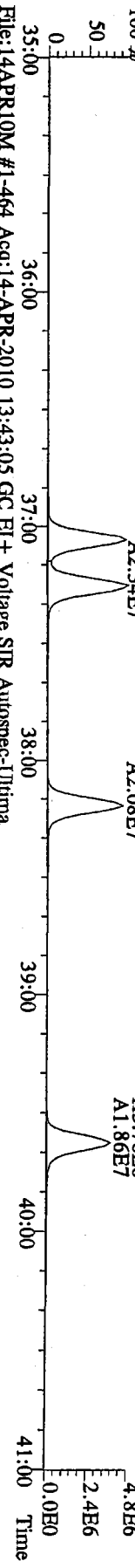
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 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



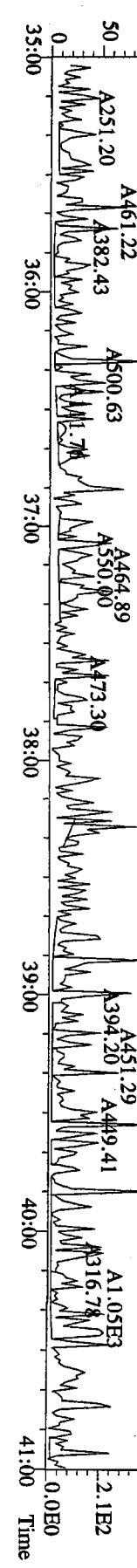
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 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



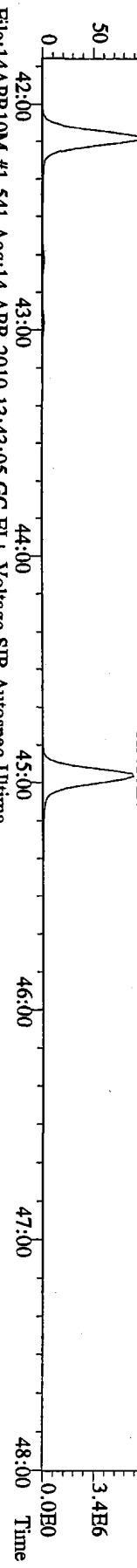
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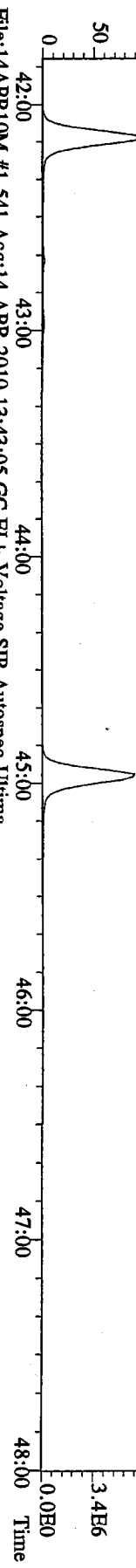
File:14APR10M #1-464 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



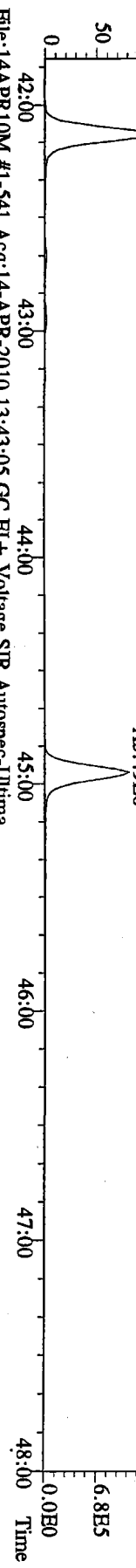
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 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
 100 % A3.24E7



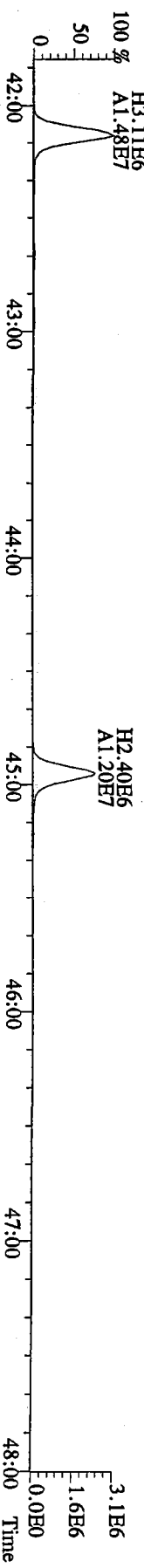
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 409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
 100 % A3.18E7



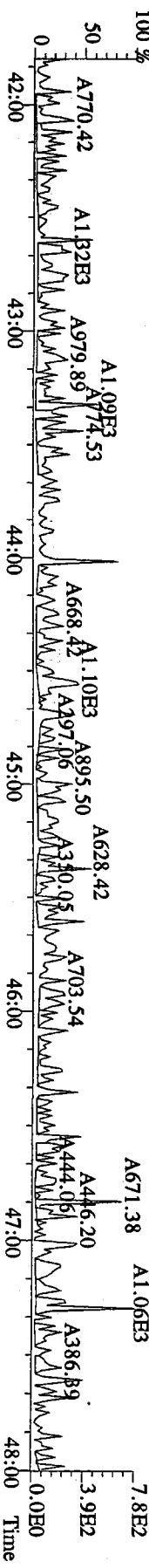
File:14APR10M #1-541 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
 100 % A6.86E6



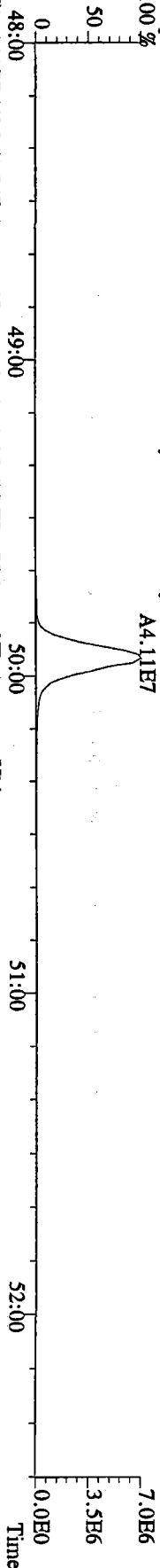
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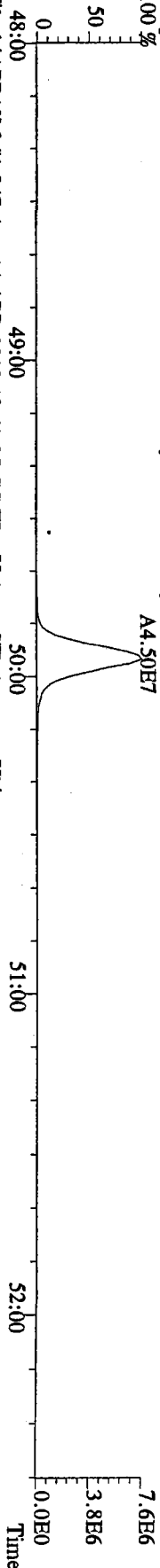
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 479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



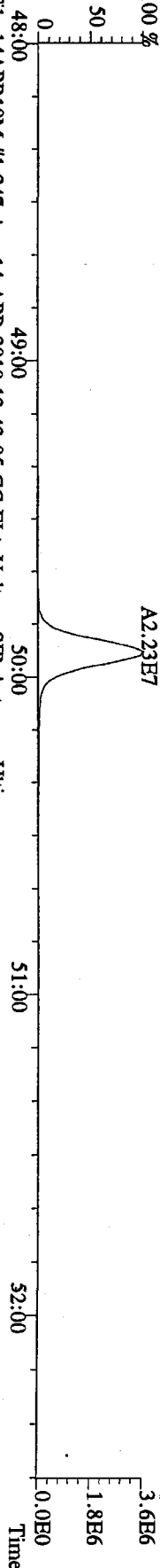
File:14APR10M #1-347 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
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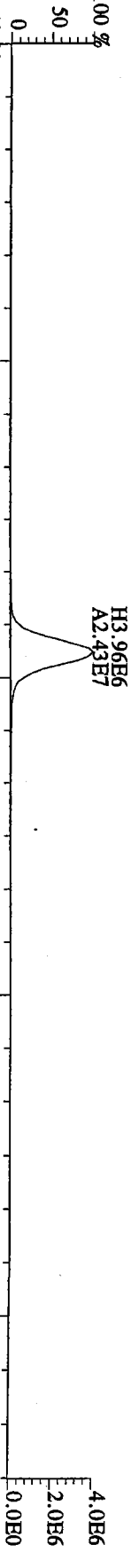
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 443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
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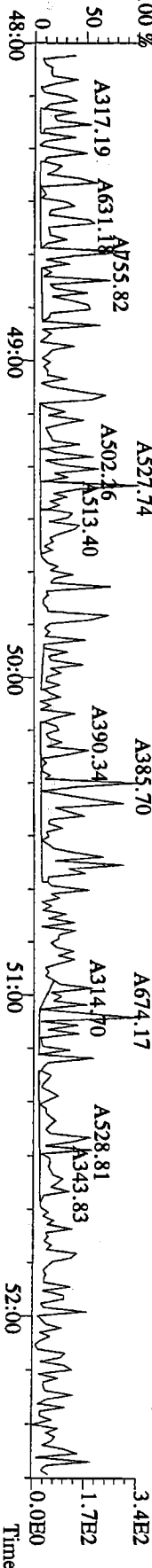
File:14APR10M #1-347 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory
 100 %



File:14APR10M #1-347 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:14-APR-2010 13:43:05 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M4 File Text:Frontier Analytical Laboratory



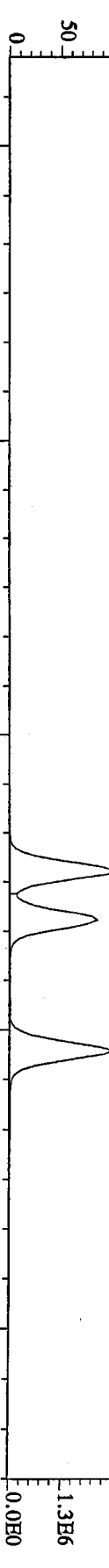
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 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



File:14APR10M #1-464 Acq:14-APR-2010 14:38:27 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



File:14APR10M #1-464 Acq:14-APR-2010 14:38:27 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



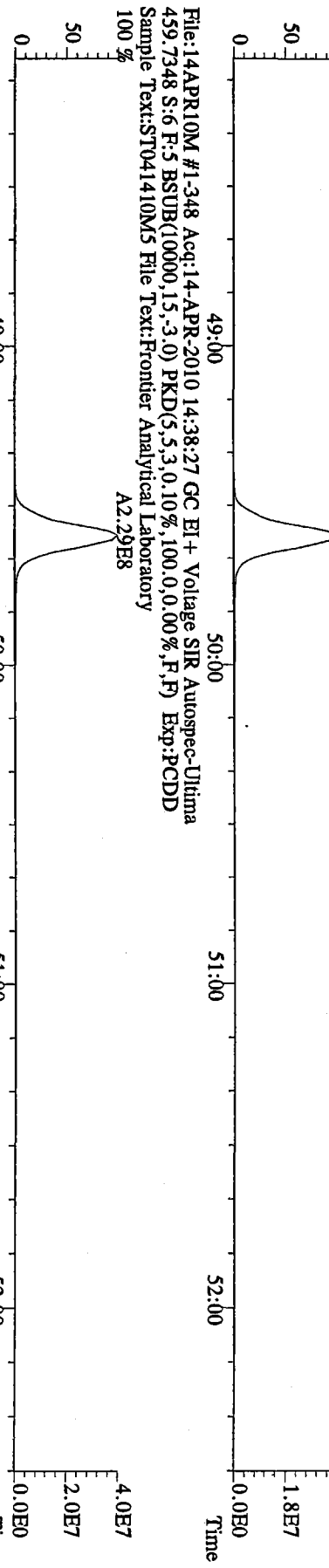
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 403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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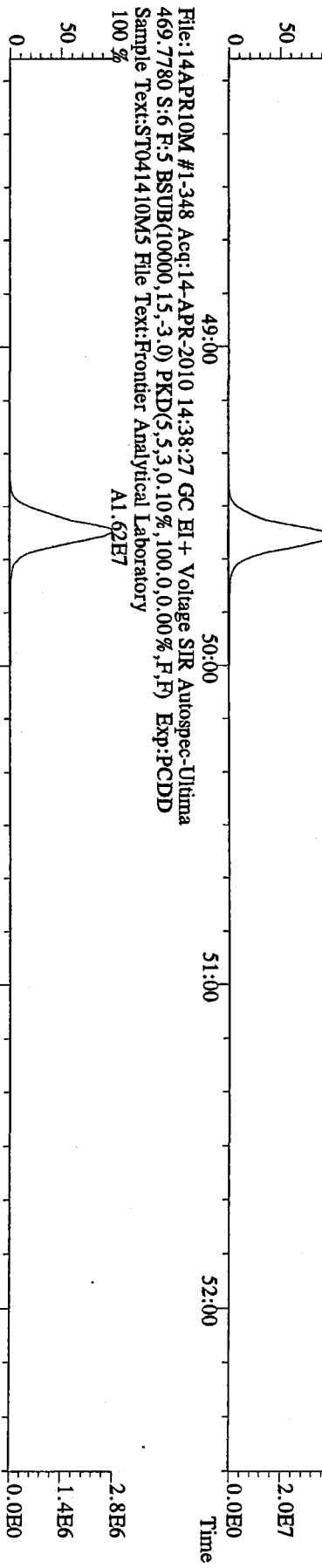
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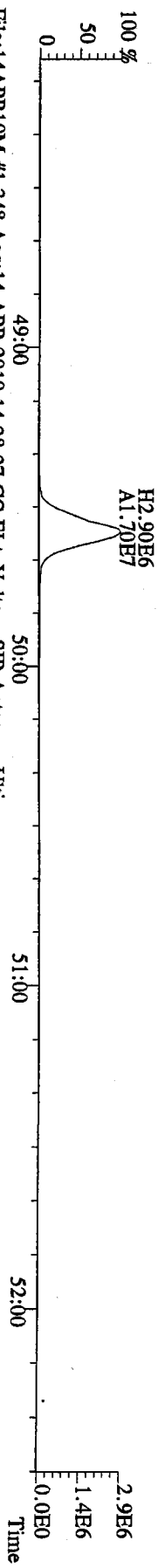
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
100 %



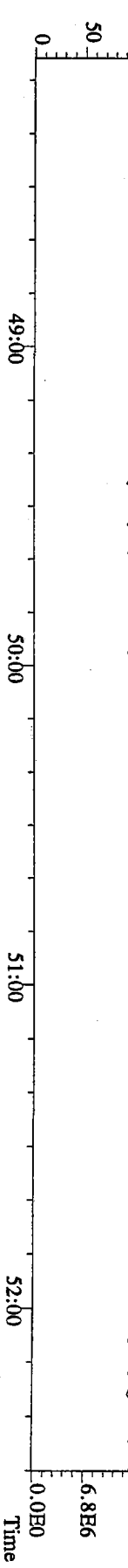
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
100 %



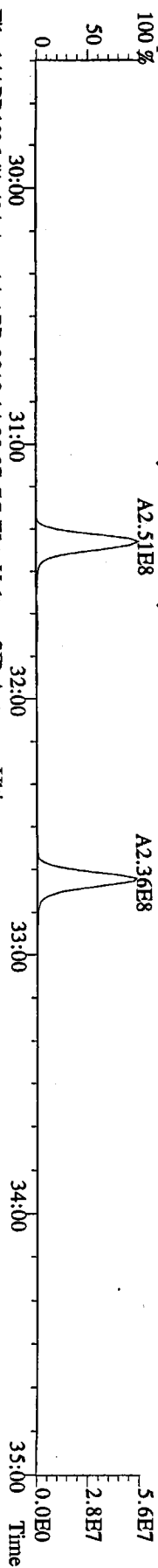
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471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



File:14APR10M #1-348 Acq:14-APR-2010 14:38:27 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



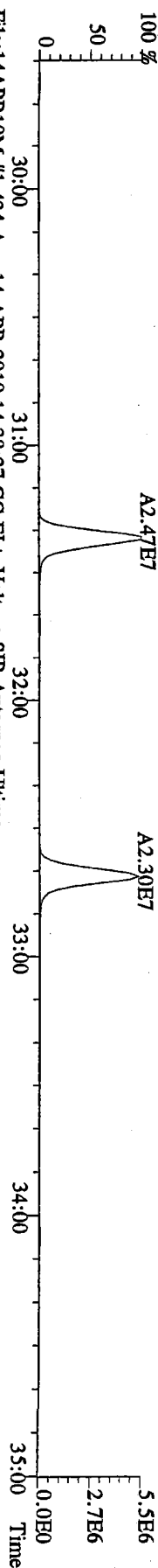
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 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



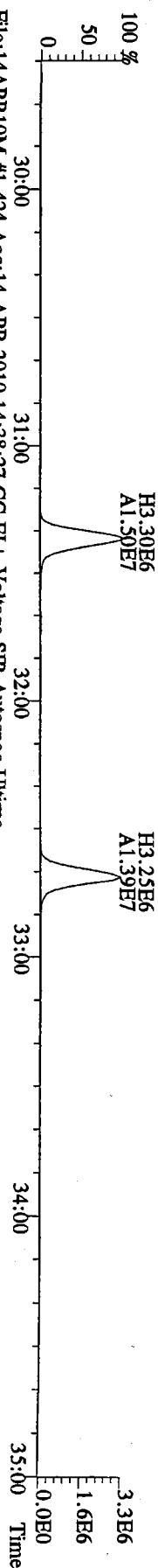
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 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



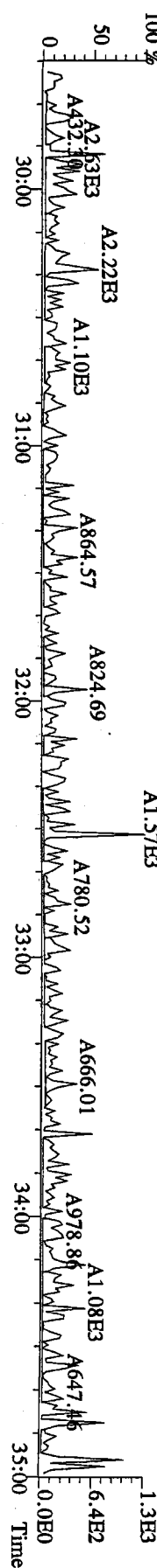
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 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



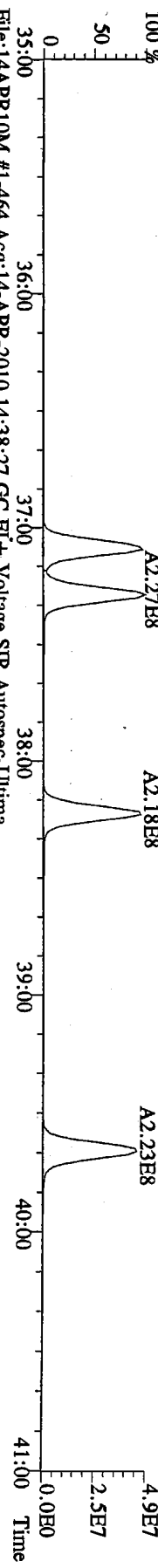
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 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



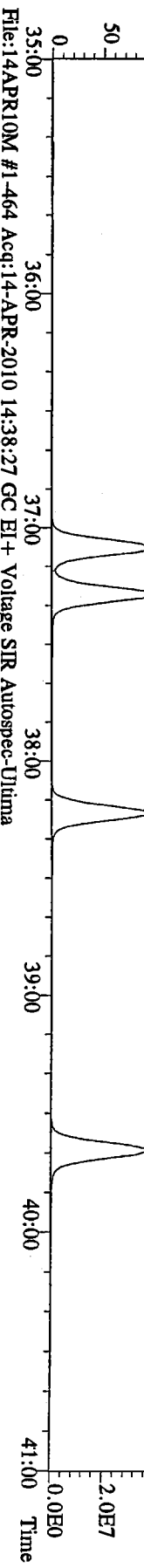
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 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



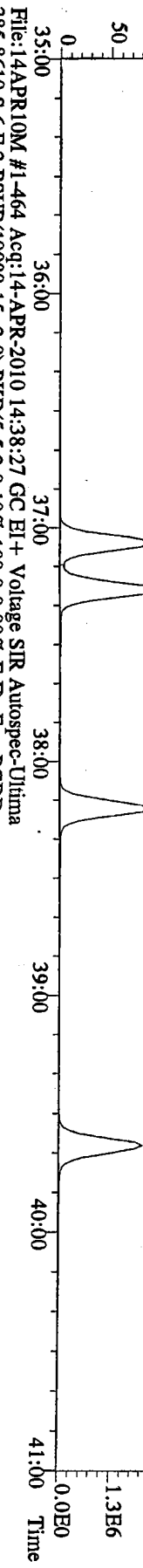
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 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



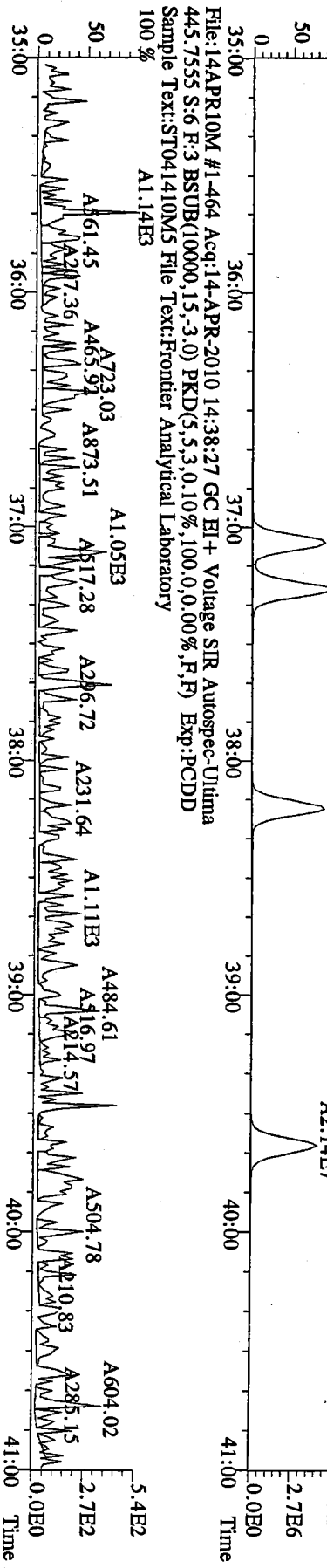
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 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



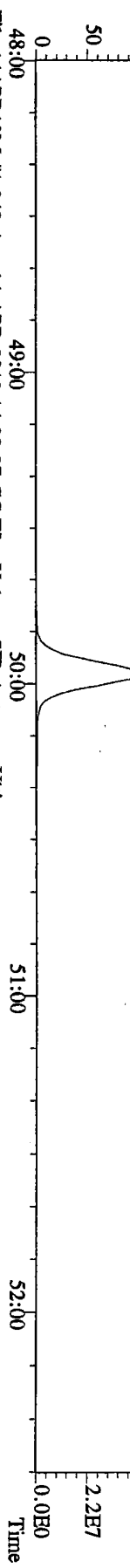
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 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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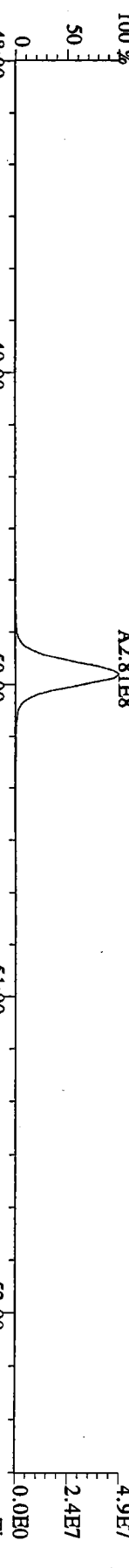
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 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory



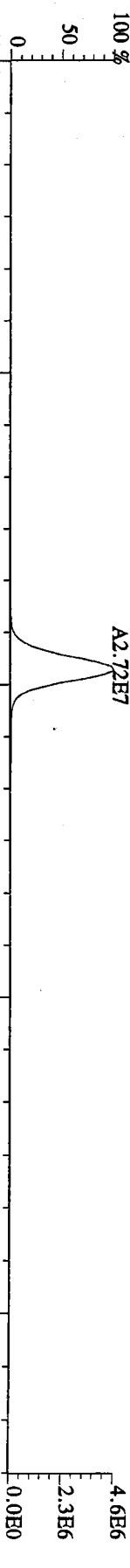
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 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
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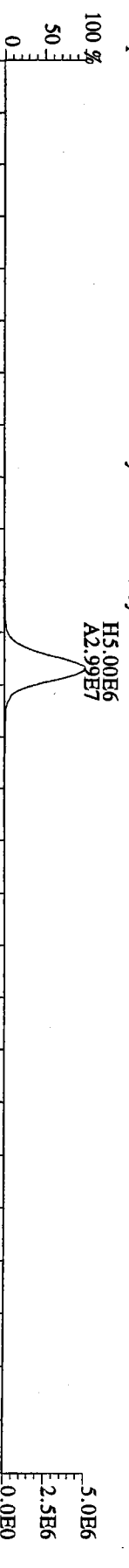
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 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
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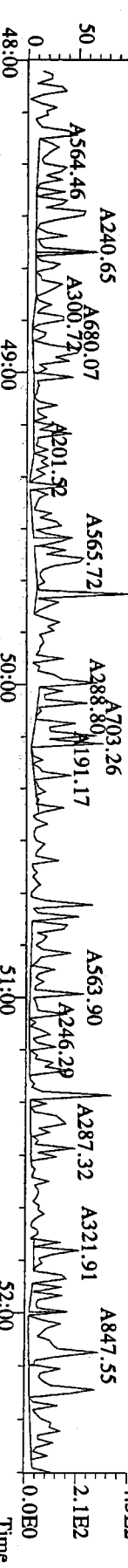
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 453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
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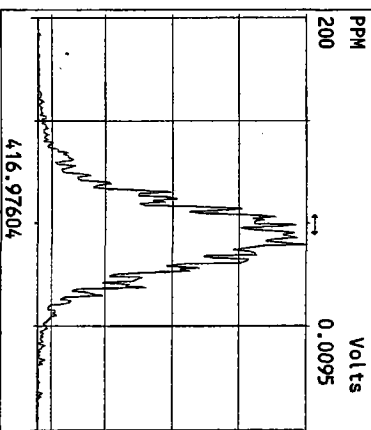
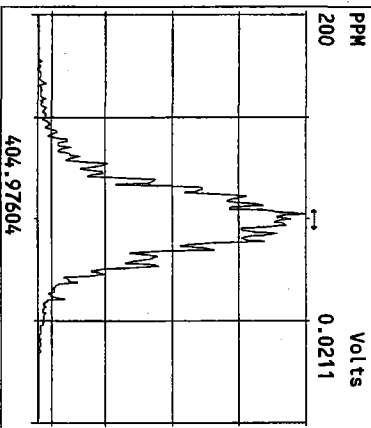
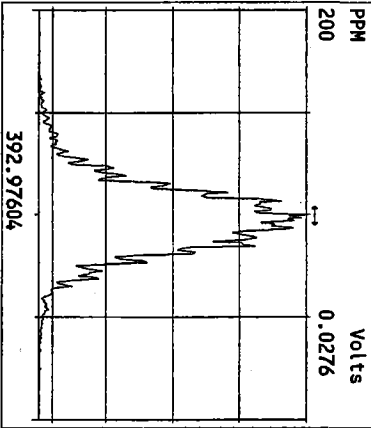
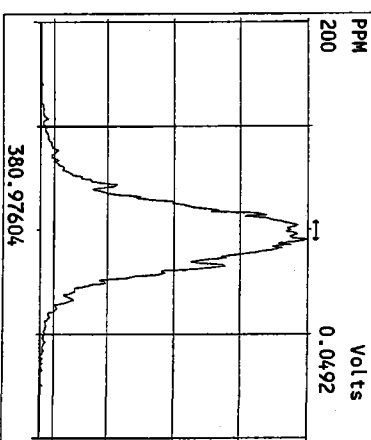
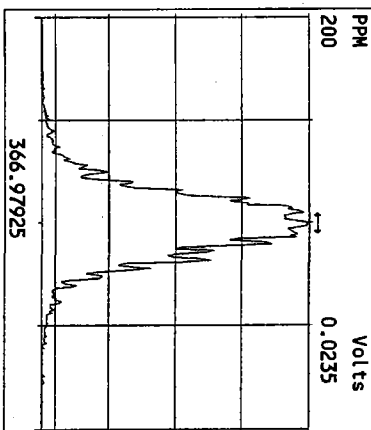
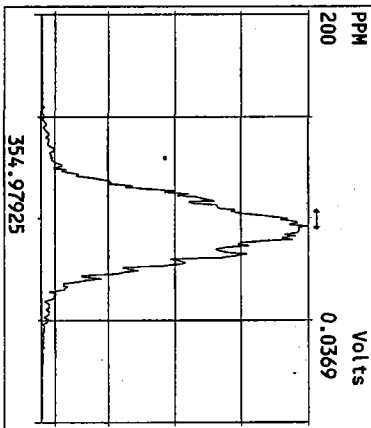
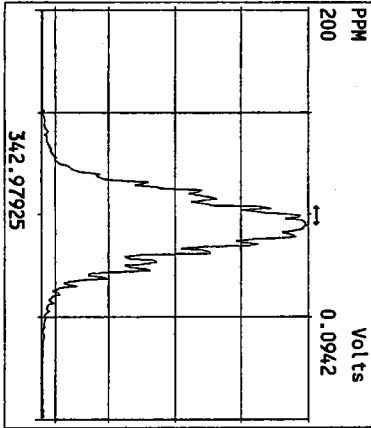
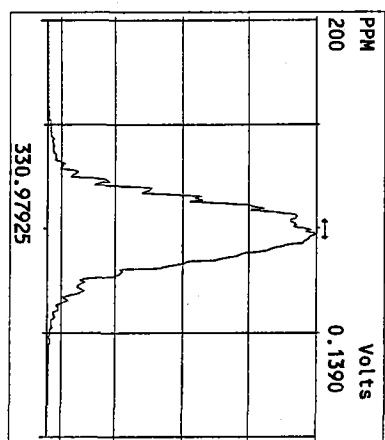
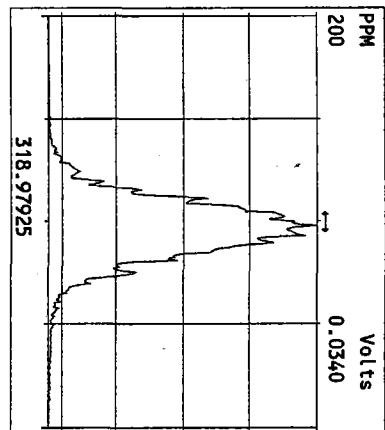
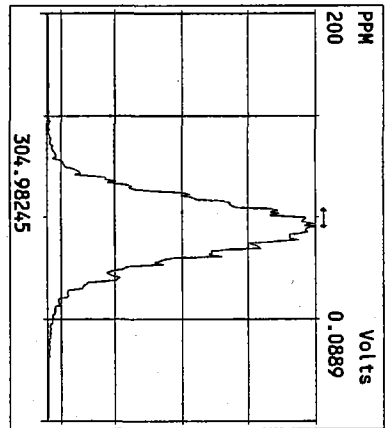
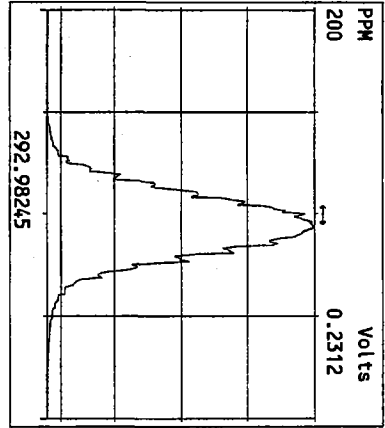
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 455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
 100 %

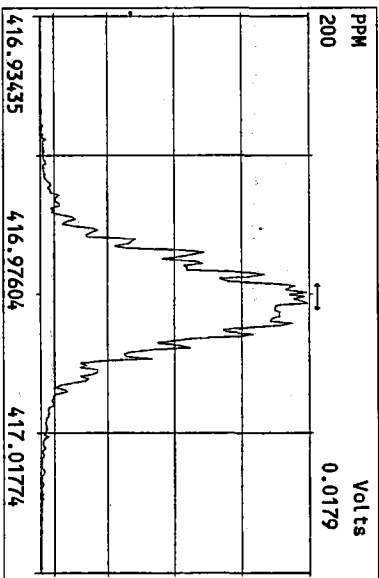
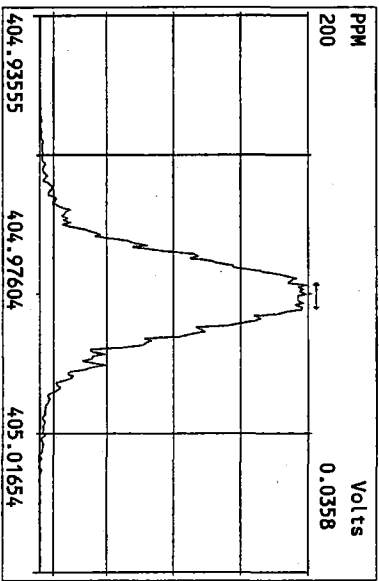
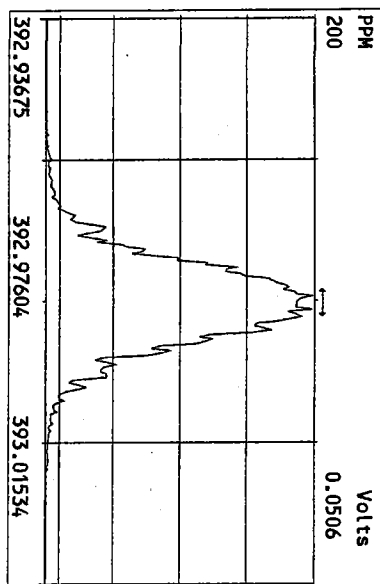
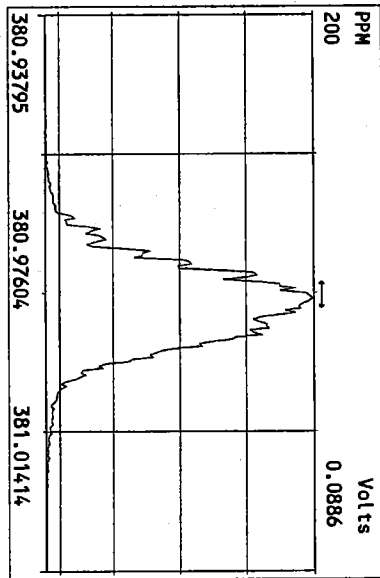
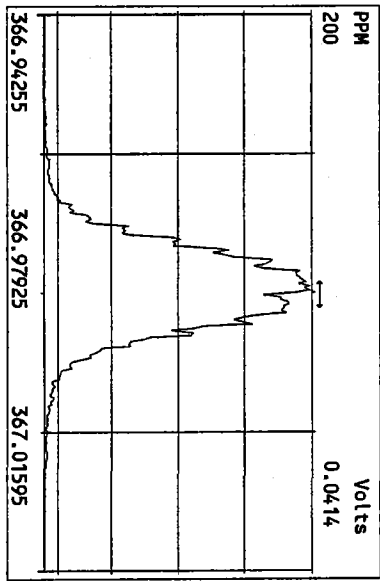
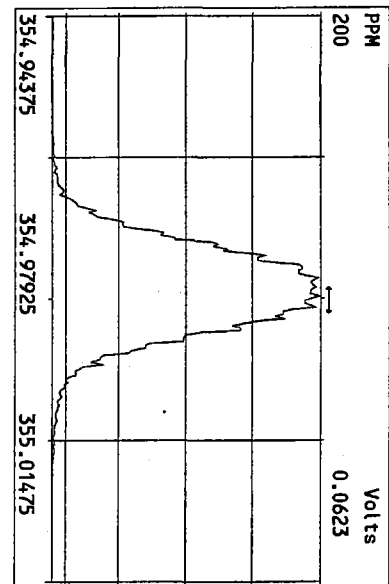
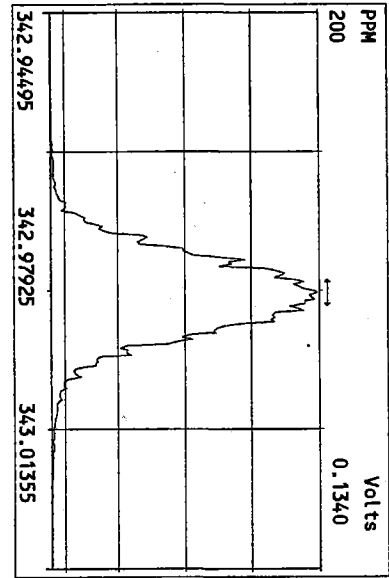
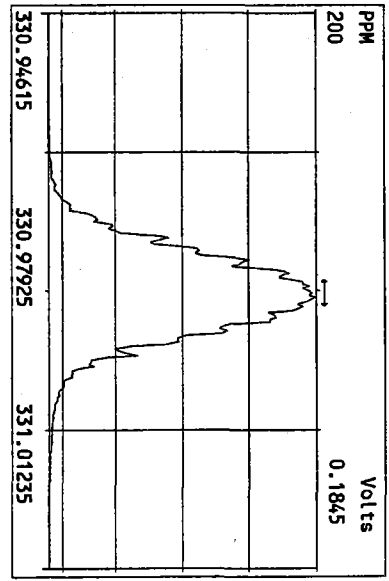


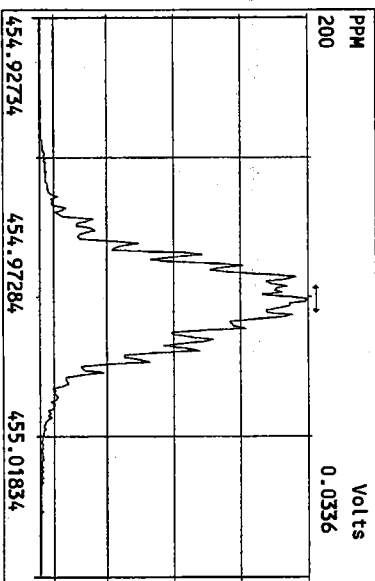
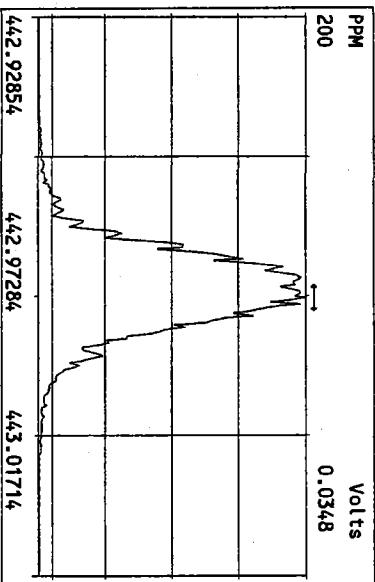
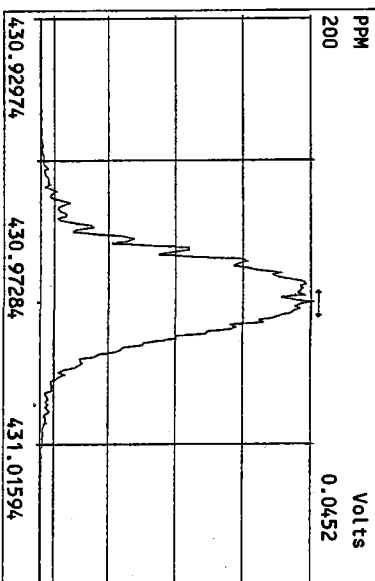
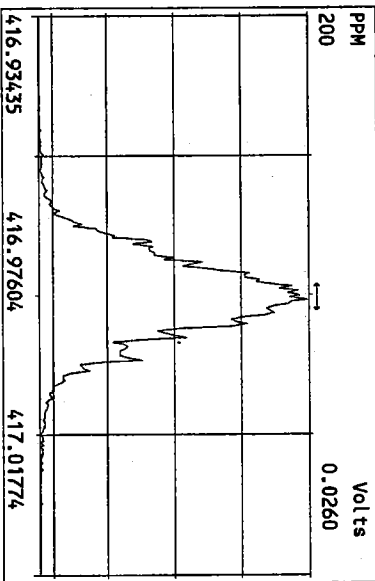
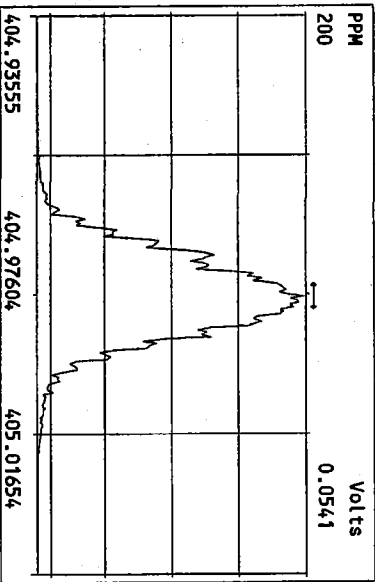
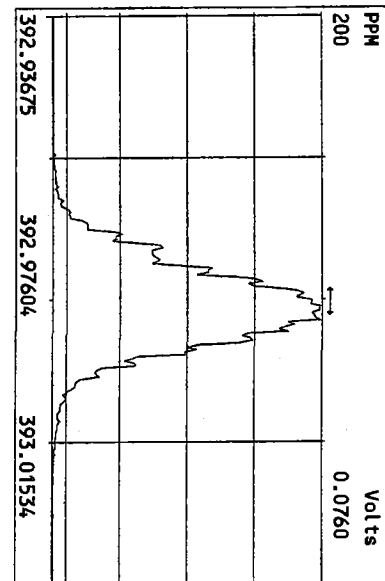
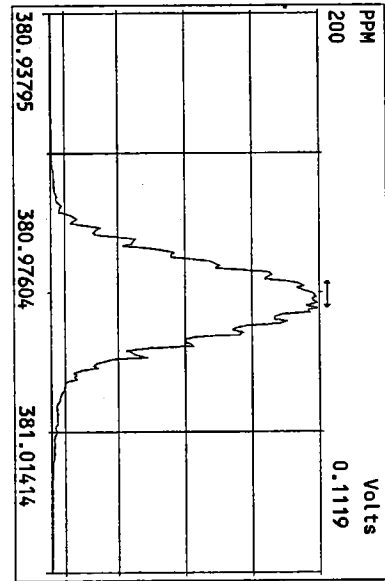
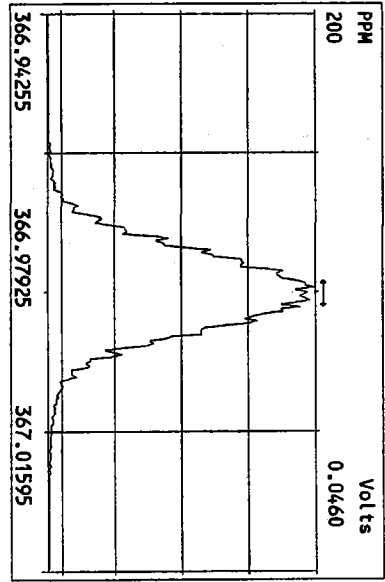
File:14APR10M #1-348 Acq:14-APR-2010 14:38:27 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M5 File Text:Frontier Analytical Laboratory
 100 %

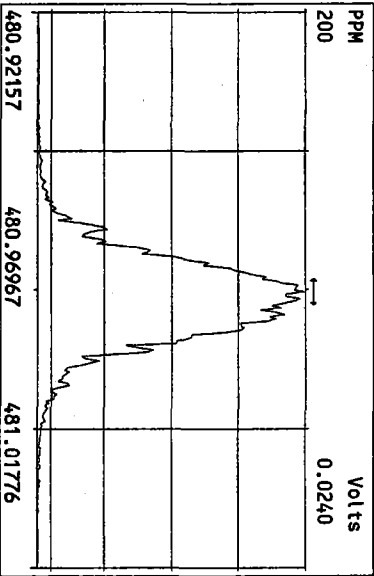
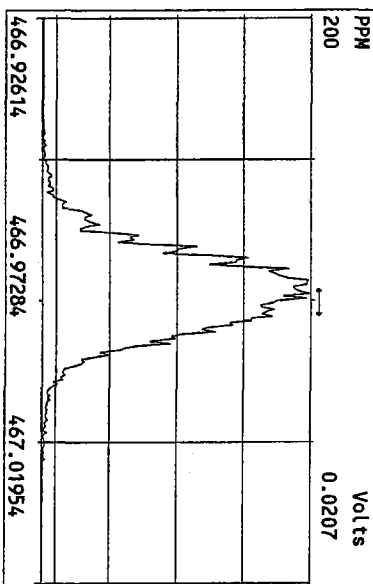
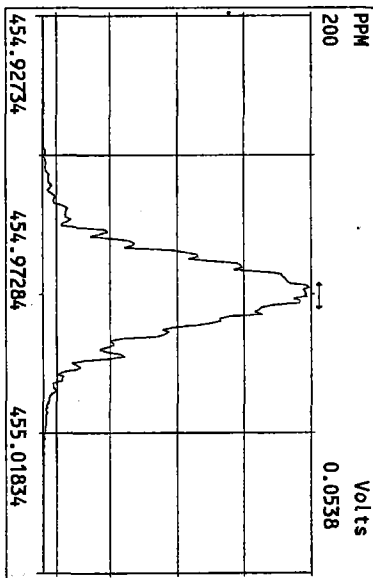
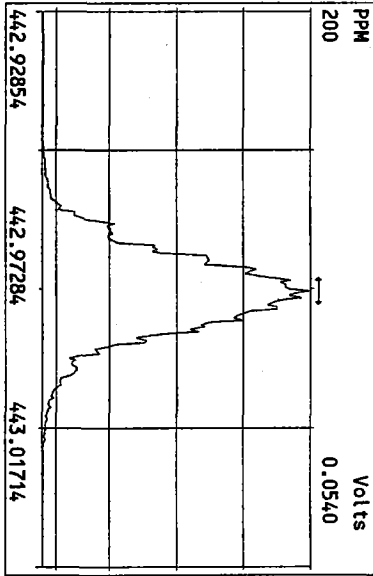
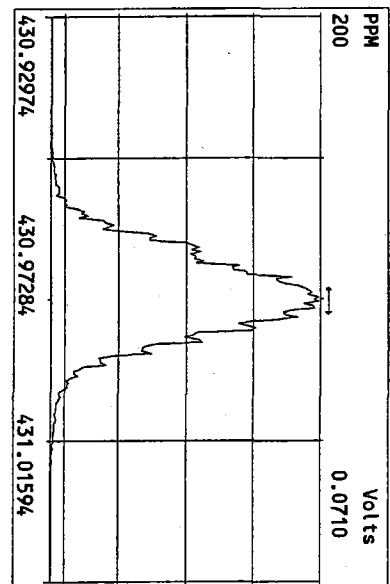
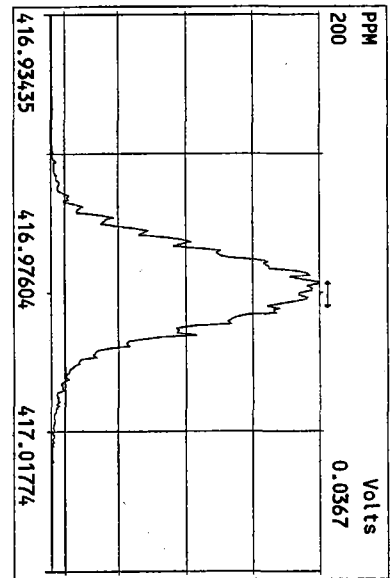
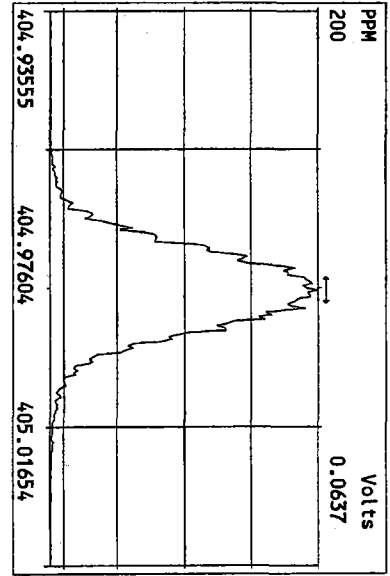


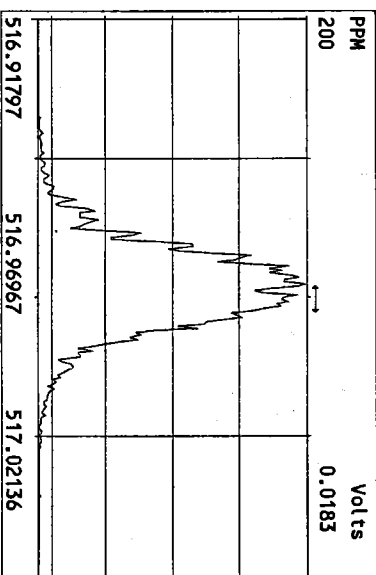
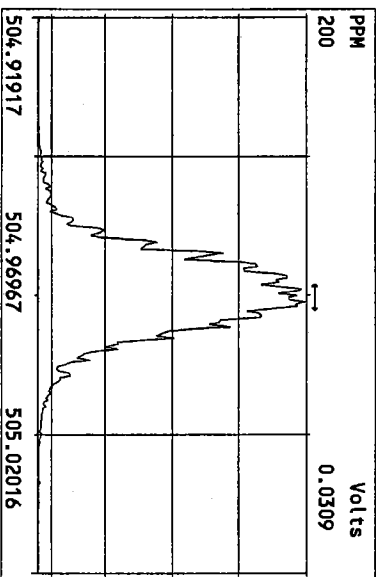
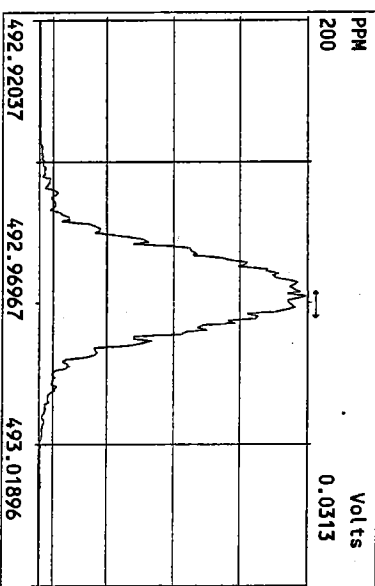
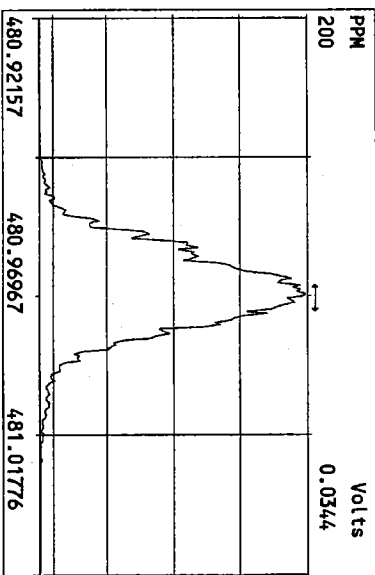
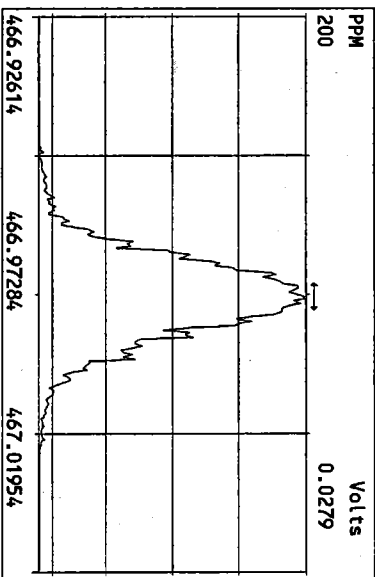
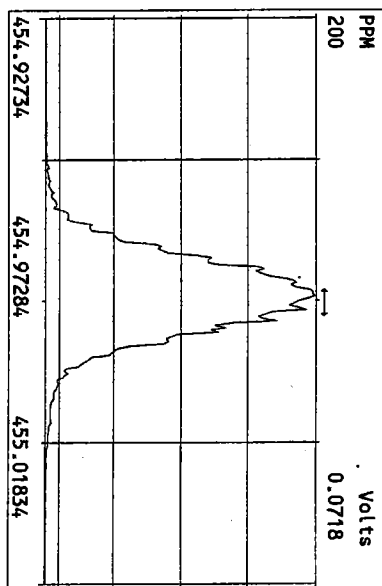
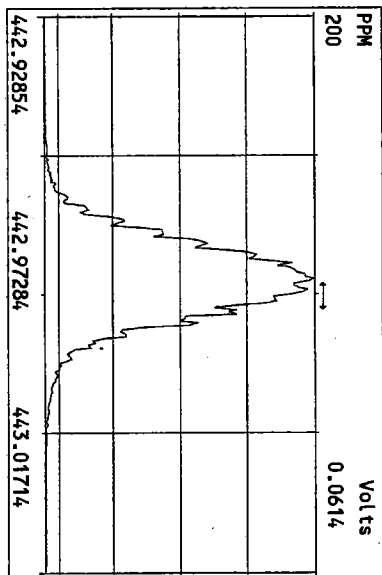
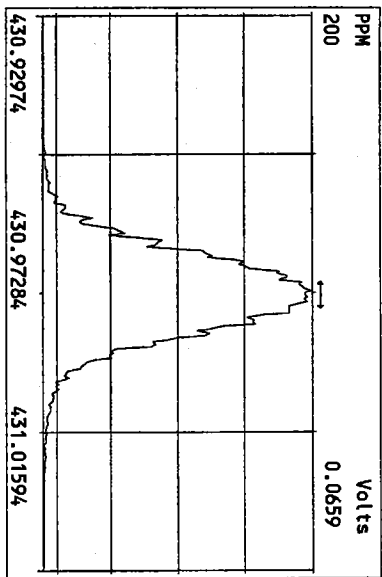
Peak Locate Examination: 15-APR-2010:02:40 File: 14APR10M_RES_CHECK
Experiment: P0DD Function: 1 Reference: PK











Continuing/Ending Calibration Results

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14APR10M Sam:4

Analysis Date: 14-APR-10 12:47:47

| | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | ACCEPT | CONC. FOUND | CONC. RANGE (ng/mL) (3) |
|---------------------|-------------------------------|------------------------|---------------------|--------|----------------|-------------------------------|
| NATIVE ANALYTES | | | | | | |
| 2,3,7,8-TCDD | M/M+2 | 0.82 | 0.65-0.89 | y | 10.2 | 7.80 - 12.9 ✓ |
| 1,2,3,7,8-PeCDD | M+2/M+4 | 1.55 | 1.32-1.78 | y | 50.3 | 39.0 - 65.0 ✓ |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.28 | 1.05-1.43 | y | 49.8 | 39.0 - 64.0 ✓ |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 50.4 | 39.0 - 64.0 ✓ |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 50.2 | 41.0 - 61.0 ✓ |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 0.96 | 0.88-1.20 | y | 50.8 | 43.0 - 58.0 ✓ |
| OCDD | M+2/M+4 | 0.92 | 0.76-1.02 | y | 101 | 79.0 - 126 ✓ |
| 2,3,7,8-TCDF | M/M+2 | 0.67 | 0.65-0.89 | y | 9.73 | 8.40 - 12.0 ✓ |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.68 | 1.32-1.78 | y | 52.2 | 41.0 - 60.0 ✓ |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.69 | 1.32-1.78 | y | 51.7 | 41.0 - 60.0 ✓ |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.3 | 45.0 - 56.0 ✓ |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 51.2 | 44.0 - 57.0 ✓ |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.7 | 44.0 - 57.0 ✓ |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.28 | 1.05-1.43 | y | 50.7 | 45.0 - 56.0 ✓ |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.01 | 0.88-1.20 | y | 51.1 | 45.0 - 55.0 ✓ |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.03 | 0.88-1.20 | y | 50.2 | 43.0 - 58.0 ✓ |
| OCDF | M+2/M+4 | 0.91 | 0.76-1.02 | y | 102 | 63.0 - 159 ✓ |

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

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

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

Analyst: 

Date: 4/15/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14APR10M Sam:4

Analysis Date: 14-APR-10 12:47:47

| LABELLED COMPOUNDS | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | ACCEPT | CONC. FOUND | CONC. RANGE (ng/mL) (3) |
|-------------------------|-------------------------------|------------------------|---------------------|--------|----------------|-------------------------------|
| 13C-2,3,7,8-TCDD | M/M+2 | 0.74 | 0.65-0.89 | y | 97.5 | 82.0 - 121 ✓ |
| 13C-1,2,3,7,8-PeCDD | M+2/M+4 | 1.63 | 1.32-1.78 | y | 98.3 | 62.0 - 160 ✓ |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.31 | 1.05-1.43 | y | 103 | 85.0 - 117 ✓ |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.30 | 1.05-1.43 | y | 100 | 85.0 - 118 ✓ |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.03 | 0.88-1.20 | y | 97.6 | 72.0 - 138 ✓ |
| 13C-OCDD | M+2/M+4 | 0.94 | 0.76-1.02 | y | 194 | 96.0 - 415 ✓ |
| 13C-2,3,7,8-TCDF | M/M+2 | 0.86 | 0.65-0.89 | y | 105 | 71.0 - 140 ✓ |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.65 | 1.32-1.78 | y | 102 | 76.0 - 130 ✓ |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.65 | 1.32-1.78 | y | 101 | 77.0 - 130 ✓ |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 103 | 76.0 - 131 ✓ |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 101 | 70.0 - 143 ✓ |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.48 | 0.43-0.59 | y | 102 | 73.0 - 137 ✓ |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.47 | 0.43-0.59 | y | 99.3 | 74.0 - 135 ✓ |
| 13C-1,2,3,4,6,7,8-HpCDF | M/M+2 | 0.46 | 0.37-0.51 | y | 99.6 | 78.0 - 129 ✓ |
| 13C-1,2,3,4,7,8,9-HpCDF | M/M+2 | 0.46 | 0.37-0.51 | y | 98.5 | 77.0 - 129 ✓ |
| 13C-OCDF | M+2/M+4 | 0.91 | 0.76-1.02 | y | 195 | 96.0 - 415 ✓ |
| CLEANUP STANDARD (4) | | | | | | |
| 37Cl-2,3,7,8-TCDD | | | | | 9.72 | 7.80 - 12.8 ✓ |

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

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

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

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

Analyst: Date: 4/15/10

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QQ59:00651

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 4/14/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 14-APR-10 12:47:47

CS3 or VER Data Filename: 14APR10M

Sam:4

| NATIVE ANALYTES | RETENTION TIME | | RRT | QC LIMITS (1) |
|---------------------|---------------------|--|-------|---------------|
| | REFERENCE | | | |
| 2,3,7,8-TCDD | 13C-2,3,7,8-TCDD | | 1.001 | 0.999-1.002 ✓ |
| 2,3,7,8-TCDF | 13C-2,3,7,8-TCDF | | 1.001 | 0.999-1.003 ✓ |
| 1,2,3,7,8-PeCDD | 13C-1,2,3,7,8-PeCDD | | 1.001 | 0.999-1.002 ✓ |
| 1,2,3,7,8-PeCDF | 13C-1,2,3,7,8-PeCDF | | 1.000 | 0.999-1.002 ✓ |
| 2,3,4,7,8-PeCDF | 13C-2,3,4,7,8-PeCDF | | 1.001 | 0.999-1.002 ✓ |
| LABELED COMPOUNDS | | | | |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | | 1.023 | 0.989-1.052 ✓ |
| 13C-2,3,7,8-TCDD | | | 1.022 | 0.976-1.043 ✓ |
| 13C-2,3,7,8-TCDF | | | 0.994 | 0.923-1.103 ✓ |
| 13C-1,2,3,7,8-PeCDD | | | 1.239 | 1.000-1.567 ✓ |
| 13C-1,2,3,7,8-PeCDF | | | 1.175 | 0.923-1.203 ✓ |
| 13C-2,3,4,7,8-PeCDF | | | 1.224 | 0.923-1.303 ✓ |

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

Analyst: Date: 4/15/10


USEPA - ITD

FORM 68
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:
 Contract No.: SAS No.: Init. Cal. Date: 4/14/10
 Instrument ID: FAL3 GC Column ID: DB5
 Analysis Date: 14-APR-10 12:47:47 CS3 or VER Data Filename: 14APR10M Sam:4

| NATIVE ANALYTES | RETENTION TIME | | RRT | QC LIMITS (1) |
|--------------------------|-------------------------|--|-------|---------------|
| | REFERENCE | | | |
| 1,2,3,4,7,8-HxCDD | 13C-1,2,3,4,7,8-HxCDD | | 1.001 | 0.999-1.001 ✓ |
| 1,2,3,6,7,8-HxCDD | 13C-1,2,3,6,7,8-HxCDD | | 1.000 | 0.998-1.004 ✓ |
| 1,2,3,7,8,9-HxCDD | 13C-1,2,3,6,7,8-HxCDD | | 1.012 | 1.000-1.019 ✓ |
| 1,2,3,4,7,8-HxCDF | 13C-1,2,3,4,7,8-HxCDF | | 1.000 | 0.999-1.001 ✓ |
| 1,2,3,6,7,8-HxCDF | 13C-1,2,3,6,7,8-HxCDF | | 1.001 | 0.997-1.005 ✓ |
| 2,3,4,6,7,8-HxCDF | 13C-2,3,4,6,7,8-HxCDF | | 1.001 | 0.999-1.001 ✓ |
| 1,2,3,7,8,9-HxCDF | 13C-1,2,3,7,8,9-HxCDF | | 1.001 | 0.999-1.001 ✓ |
| 1,2,3,4,6,7,8-HpCDD | 13C-1,2,3,4,6,7,8-HpCDD | | 1.001 | 0.999-1.001 ✓ |
| 1,2,3,4,6,7,8-HpCDF | 13C-1,2,3,4,6,7,8-HpCDF | | 1.000 | 0.999-1.001 ✓ |
| 1,2,3,4,7,8,9-HpCDF | 13C-1,2,3,4,7,8,9-HpCDF | | 1.001 | 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 | | 0.984 | 0.977-1.000 ✓ |
| 13C-1,2,3,6,7,8-HxCDD | | | 0.989 | 0.981-1.003 ✓ |
| 13C-1,2,3,4,7,8-HxCDF | | | 0.949 | 0.944-0.970 ✓ |
| 13C-1,2,3,6,7,8-HxCDF | | | 0.954 | 0.949-0.975 ✓ |
| 13C-2,3,4,6,7,8-HxCDF | | | 0.978 | 0.959-1.021 ✓ |
| 13C-1,2,3,7,8,9-HxCDF | | | 1.015 | 0.977-1.047 ✓ |
| 13C-1,2,3,4,6,7,8-HpCDD | | | 1.127 | 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 | | | 1.268 | 1.032-1.311 ✓ |
| 13C-OCDF | | | 1.278 | 1.000-1.311 ✓ |

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

Analyst:  Date: 4/15/10

FAL ID: ST041410M3 Filename: 14APR10M Sam:4 Acquired: 14-APR-10 12:47:47 ICal: PCDDFAL3-4-14-10
 Client ID: 1613 CS3 090918J ConCal: ST041410M3 EndCal: ST041410M6

| Results: | | GC Column: DB5 | Amount: 1.000 | NATO 1989 Tox: | 102 | WHO 1998 Tox: | 127 | WHO 2005 Tox: | 115 | | |
|--------------------------|----------|----------------|---------------|----------------|------|---------------|-------------|---------------|------|-------|----|
| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | | |
| 2,3,7,8-TCDD | 1.98e+06 | 0.82 y | 27:19 | 1.12 | 10.2 | | 2.50 | - | * | | |
| 1,2,3,7,8-PeCDD | 1.08e+07 | 1.55 y | 33:07 | 1.07 | 50.3 | | 2.50 | - | * | | |
| 1,2,3,4,7,8-HxCDD | 1.15e+07 | 1.28 y | 38:29 | 1.39 | 49.8 | | 2.50 | - | * | | |
| 1,2,3,6,7,8-HxCDD | 9.78e+06 | 1.30 y | 38:38 | 1.36 | 50.4 | | 2.50 | - | * | | |
| 1,2,3,7,8,9-HxCDD | 1.09e+07 | 1.30 y | 39:05 | 1.40 | 50.2 | | 2.50 | - | * | | |
| 1,2,3,4,6,7,8-HpCDD | 9.14e+06 | 0.96 y | 44:04 | 1.14 | 50.8 | | 2.50 | - | * | | |
| OCDD | 1.43e+07 | 0.92 y | 49:35 | 1.22 | 101 | | 2.50 | - | * | | |
| 2,3,7,8-TCDF | 4.48e+06 | 0.67 y | 26:34 | 1.29 | 9.73 | | 2.50 | - | * | | |
| 1,2,3,7,8-PeCDF | 1.68e+07 | 1.68 y | 31:23 | 0.93 | 52.2 | | 2.50 | - | * | | |
| 2,3,4,7,8-PeCDF | 1.57e+07 | 1.69 y | 32:43 | 0.93 | 51.7 | | 2.50 | - | * | | |
| 1,2,3,4,7,8-HxCDF | 1.61e+07 | 1.25 y | 37:05 | 1.07 | 50.3 | | 2.50 | - | * | | |
| 1,2,3,6,7,8-HxCDF | 1.62e+07 | 1.25 y | 37:17 | 0.97 | 51.2 | | 2.50 | - | * | | |
| 2,3,4,6,7,8-HxCDF | 1.54e+07 | 1.25 y | 38:13 | 1.04 | 50.7 | | 2.50 | - | * | | |
| 1,2,3,7,8,9-HxCDF | 1.45e+07 | 1.28 y | 39:39 | 1.15 | 50.7 | | 2.50 | - | * | | |
| 1,2,3,4,6,7,8-HpCDF | 1.39e+07 | 1.01 y | 42:09 | 1.37 | 51.1 | | 2.50 | - | * | | |
| 1,2,3,4,7,8,9-HpCDF | 1.27e+07 | 1.03 y | 44:59 | 1.62 | 50.2 | | 2.50 | - | * | | |
| OCDF | 1.77e+07 | 0.91 y | 49:56 | 0.85 | 102 | | 2.50 | - | * | | |
| | | | | | | | | | Rec | | |
| 13C-2,3,7,8-TCDD | 1.73e+07 | 0.74 y | 27:18 | 0.98 | 97.5 | | | | 97.5 | | |
| 13C-1,2,3,7,8-PeCDD | 2.02e+07 | 1.63 y | 33:06 | 1.14 | 98.3 | | | | 98.3 | | |
| 13C-1,2,3,4,7,8-HxCDD | 1.65e+07 | 1.31 y | 38:27 | 1.00 | 103 | | | | 103 | | |
| 13C-1,2,3,6,7,8-HxCDD | 1.43e+07 | 1.30 y | 38:37 | 0.89 | 100 | | | | 100 | | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.58e+07 | 1.03 y | 44:02 | 1.01 | 97.6 | | | | 97.6 | | |
| 13C-OCDD | 2.33e+07 | 0.94 y | 49:33 | 0.75 | 194 | | | | 96.9 | | |
| 13C-2,3,7,8-TCDF | 3.58e+07 | 0.86 y | 26:33 | 0.93 | 105 | | | | 105 | | |
| 13C-1,2,3,7,8-PeCDF | 3.48e+07 | 1.65 y | 31:22 | 0.93 | 102 | | | | 102 | | |
| 13C-2,3,4,7,8-PeCDF | 3.25e+07 | 1.65 y | 32:41 | 0.87 | 101 | | | | 101 | | |
| 13C-1,2,3,4,7,8-HxCDF | 3.00e+07 | 0.47 y | 37:04 | 1.82 | 103 | | | | 103 | | |
| 13C-1,2,3,6,7,8-HxCDF | 3.26e+07 | 0.47 y | 37:15 | 2.01 | 101 | | | | 101 | | |
| 13C-2,3,4,6,7,8-HxCDF | 2.91e+07 | 0.48 y | 38:12 | 1.77 | 102 | | | | 102 | | |
| 13C-1,2,3,7,8,9-HxCDF | 2.49e+07 | 0.47 y | 39:38 | 1.57 | 99.3 | | | | 99.3 | | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.98e+07 | 0.46 y | 42:08 | 1.24 | 99.6 | | | | 99.6 | | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.57e+07 | 0.46 y | 44:57 | 0.99 | 98.5 | | | | 98.5 | | |
| 13C-OCDF | 4.11e+07 | 0.91 y | 49:55 | 1.32 | 195 | | | | 97.3 | | |
| 37Cl-2,3,7,8-TCDD | 1.93e+06 | | 27:19 | 1.10 | 9.72 | | | | 97.2 | | |
| 13C-1,2,3,4-TCDD | 1.81e+07 | 0.75 y | 26:42 | - | 103 | | | | | | |
| 13C-1,2,3,4-TCDF | 3.69e+07 | 0.88 y | 25:27 | - | 99.4 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.60e+07 | 1.32 y | 39:04 | - | 98.0 | | | | | | |
| Total Tetra-Dioxins | 1.08e+07 | | 24:19 | 1.12 | 55.8 | | 2.50 | - | * | #Hom | 17 |
| Total Penta-Dioxins | 2.34e+07 | | 30:09 | 1.07 | 108 | | 2.50 | - | * | | 7 |
| Total Hexa-Dioxins | 3.65e+07 | | 36:00 | 1.38 | 171 | | 2.50 | - | * | | 8 |
| Total Hepta-Dioxins | 1.94e+07 | | 42:41 | 1.14 | 108 | | 2.50 | - | * | | 8 |
| Total Tetra-Furans | 1.90e+07 | | 22:59 | 1.29 | 41.3 | | 2.50 | - | * | | 18 |
| 1st Fn. Tot Penta-Furans | 1.22e+07 | | 28:19 | 0.93 | 39.0 | | 2.50 | - | * | PeCDF | 1 |
| Total Penta-Furans | 4.74e+07 | | 30:06 | 0.93 | 151 | | 2.50 | - | * | 190 | 12 |
| Total Hexa-Furans | 7.09e+07 | | 35:08 | 1.05 | 231 | | 2.50 | - | * | | 11 |
| Total Hepta-Furans | 2.70e+07 | | 42:09 | 1.48 | 103 | | 2.50 | - | * | | 4 |

Analyst: 

Date: 4/15/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:14APR10M

Instrument: FAL3

GC: DB5

Experiment:PCDD

| Data File S | FAL ID | Client ID | Acquired | ConCal | EndCal | Analyst | |
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| 14APR10M | 3 | ST041410M2 | 1613 CS2 090918I | 14-APR-10 11:52:28 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 4 | ST041410M3 | 1613 CS3 090918J | 14-APR-10 12:47:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 5 | ST041410M4 | 1613 CS4 090918K | 14-APR-10 13:43:05 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 6 | ST041410M5 | 1613 CS5 090918L | 14-APR-10 14:38:27 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 7 | SB041410M1 | Solvent Blank | 14-APR-10 15:33:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 8 | 1987-001-0001-OPR | OPR | 14-APR-10 16:29:08 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 9 | 1987-001-0001-MB | Method Blank | 14-APR-10 17:24:28 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 10 | 6016-005-0002-DUP | MW-107A | 14-APR-10 18:19:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 11 | 6077-001-0001-SA | E-001 | 14-APR-10 19:15:06 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 12 | 6074-001-0001-SA | 31983 SPENT CAUST | 14-APR-10 20:10:24 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 13 | 6076-001-0001-SA | CB31A032910COMP | 14-APR-10 21:05:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 14 | 6076-002-0001-SA | CB4857032910COMP | 14-APR-10 22:01:10 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 15 | 6076-003-0001-SA | CB1032910COMP | 14-APR-10 22:56:33 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 16 | 6076-004-0001-SA | CB100032910COMP | 14-APR-10 23:51:58 | ST041410M3 | ST041410M6 | TC |
| 14APR10M | 17 | SB041410M2 | Solvent Blank | 15-APR-10 00:47:21 | ST041410M3 | ST041410M6 | TC |
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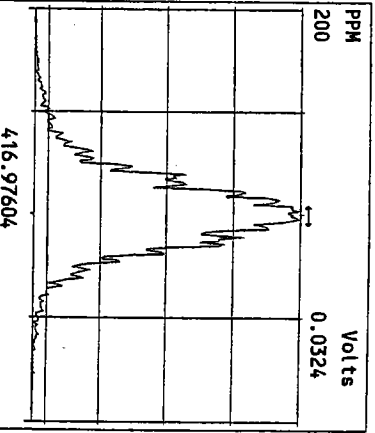
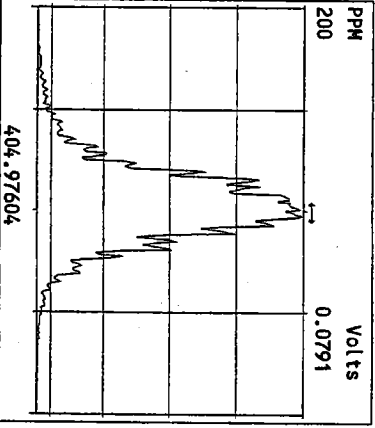
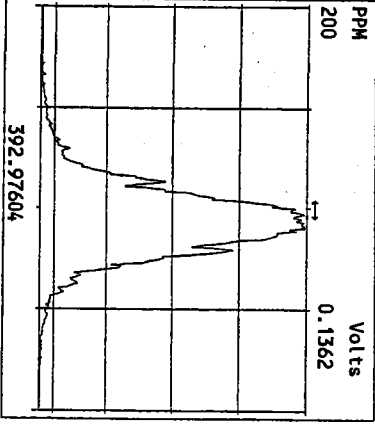
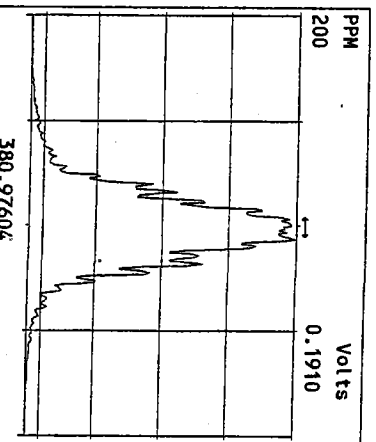
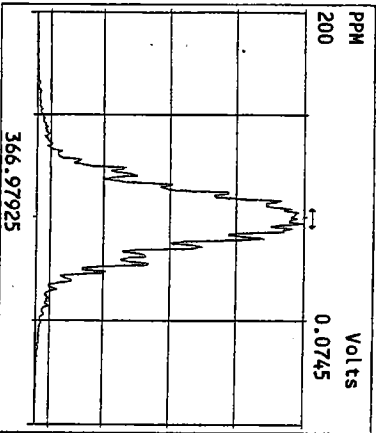
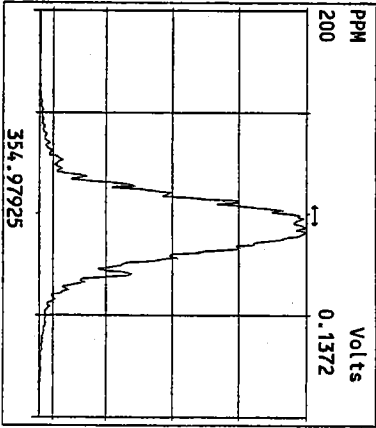
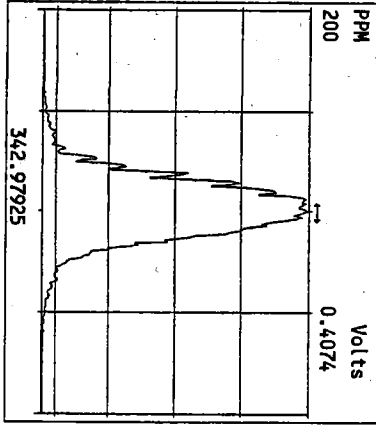
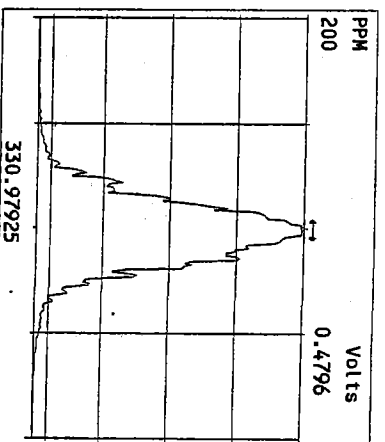
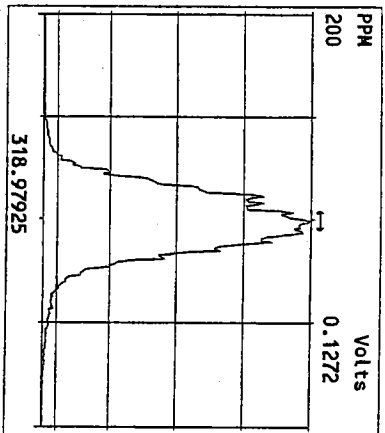
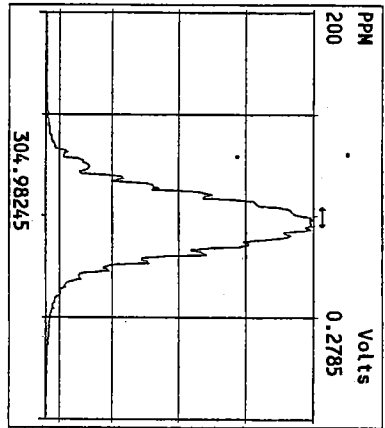
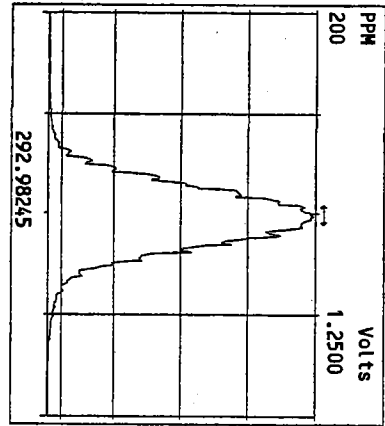
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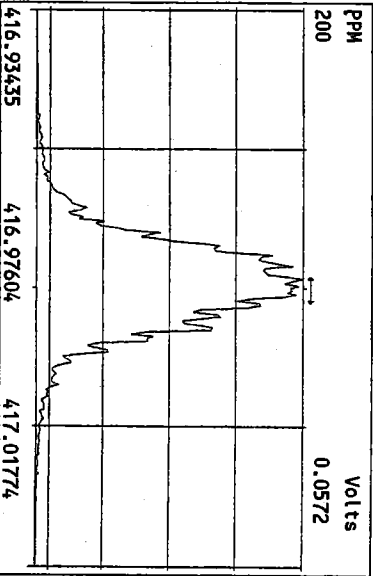
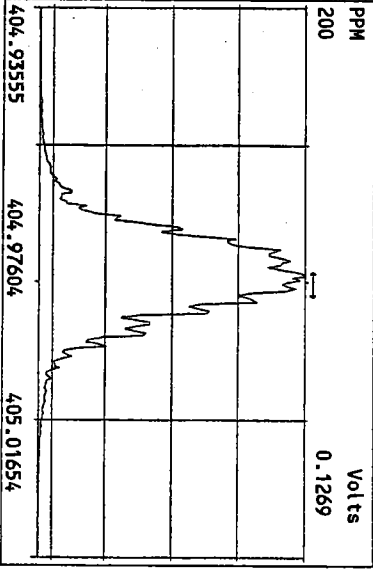
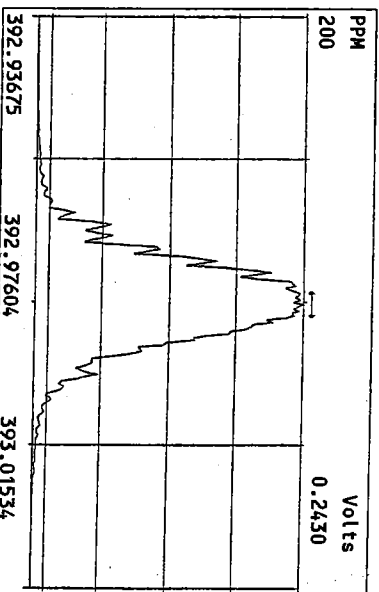
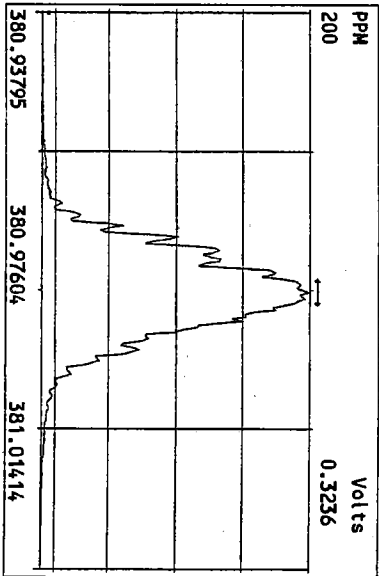
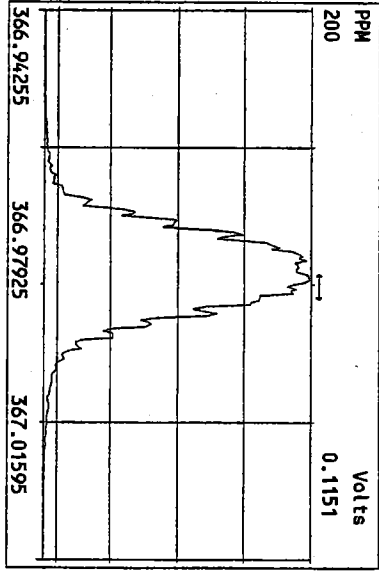
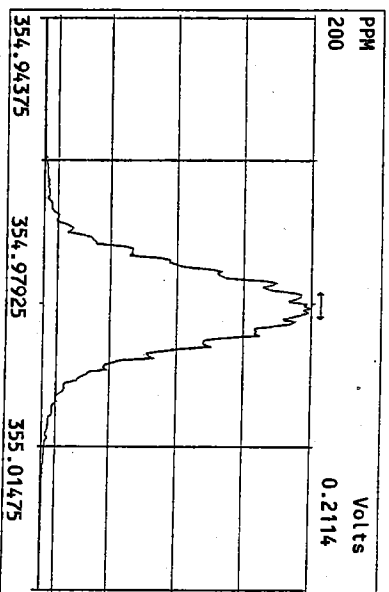
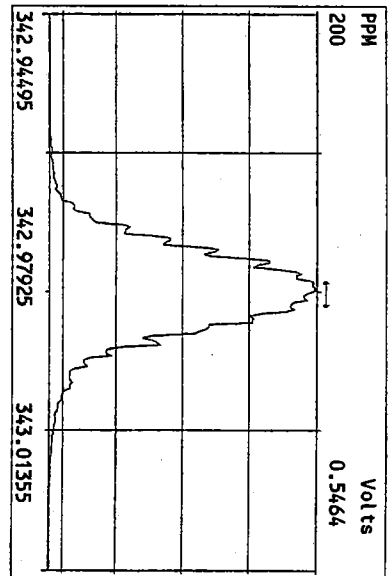
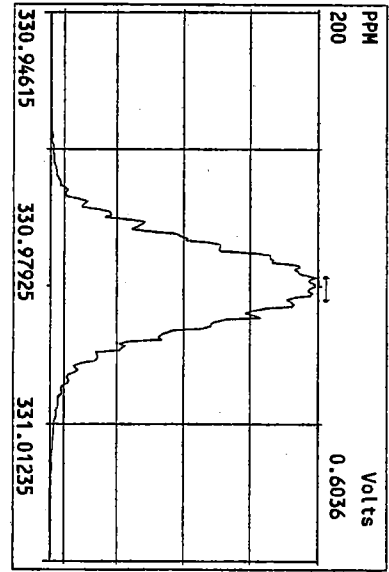
A/15/10

Data Backed Up: _____

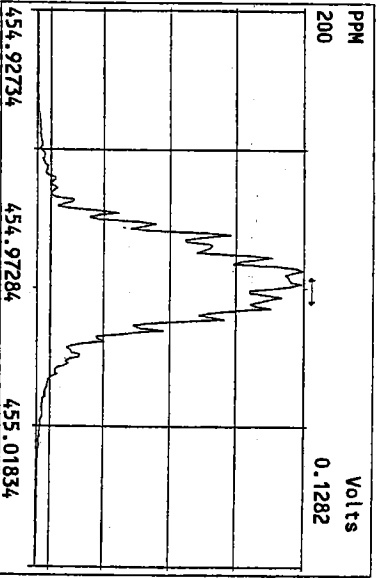
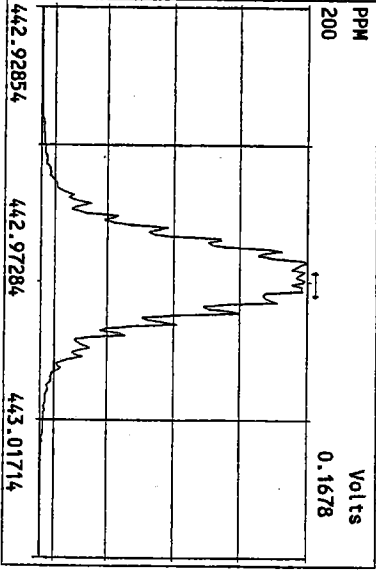
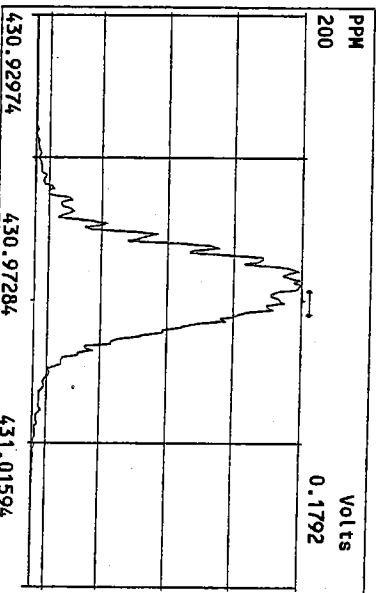
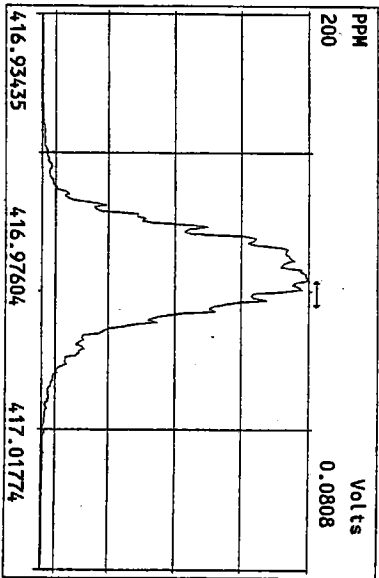
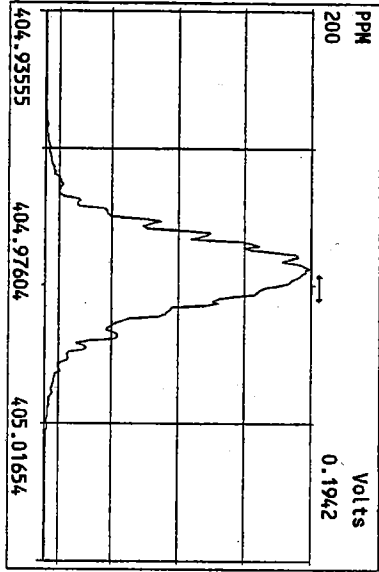
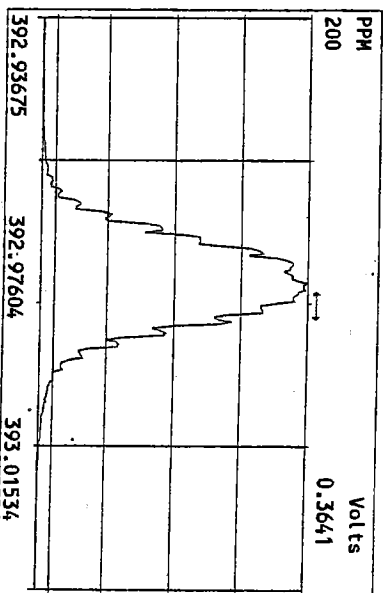
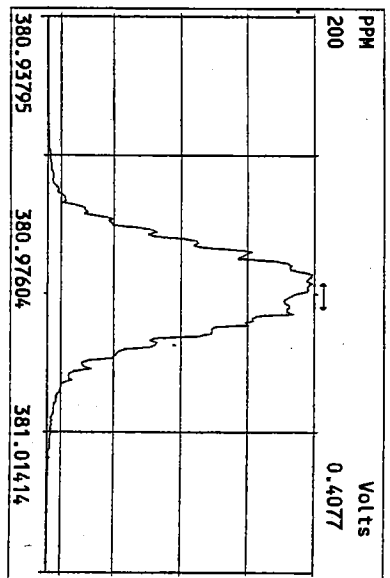
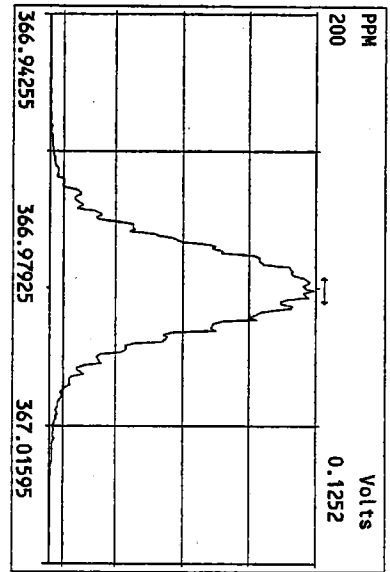
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Peak Locate Examination: 14-APR-2010:10:00 File: 14APR10M
Experiment: PCDJ Function: 1 Reference: PFK

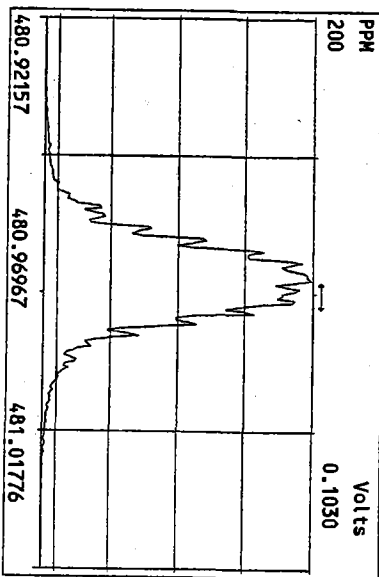
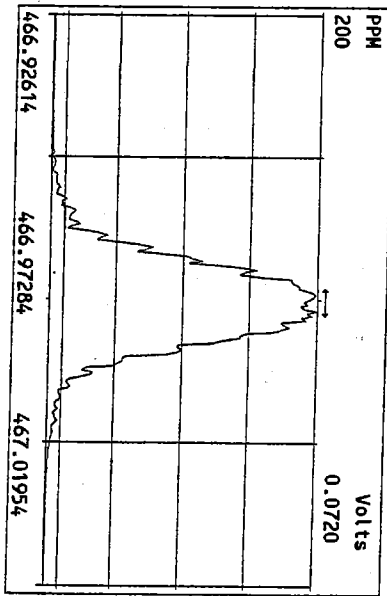
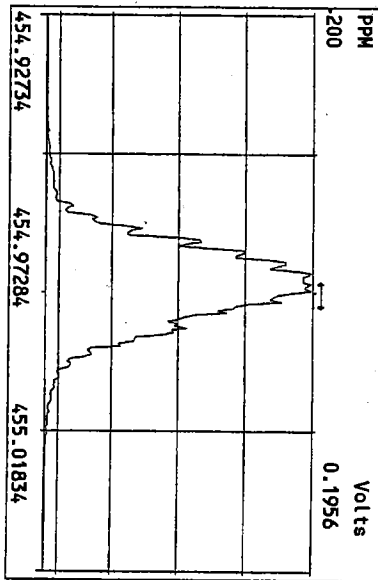
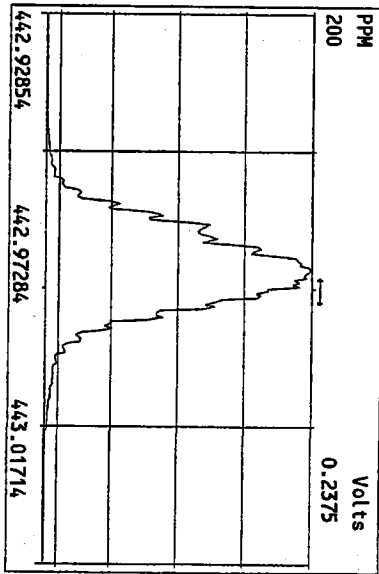
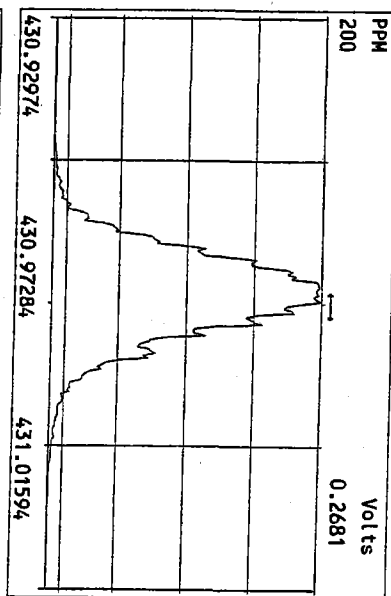
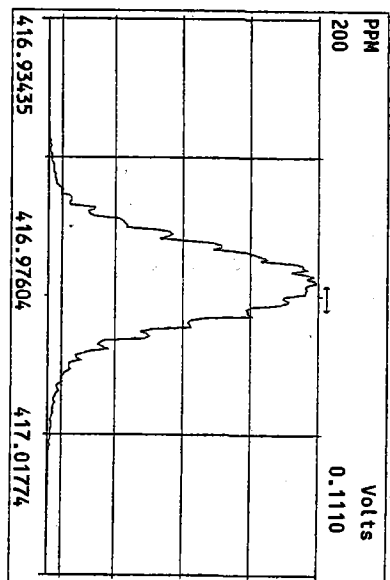
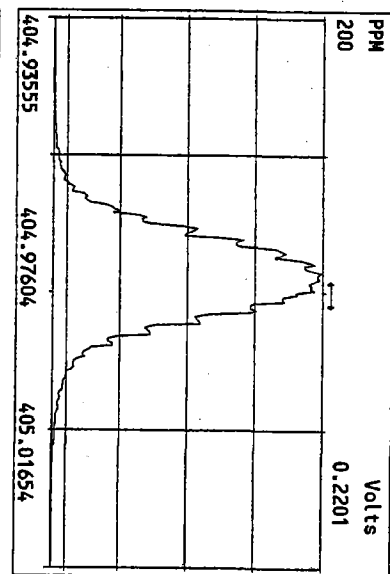




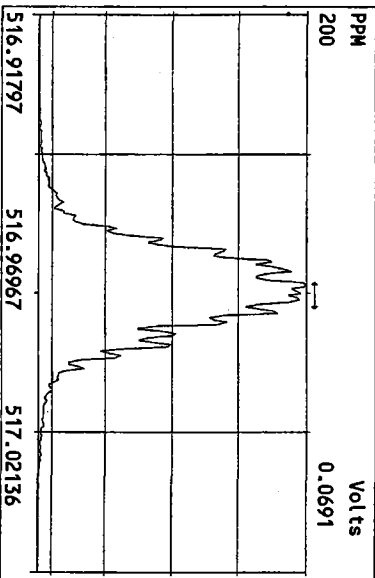
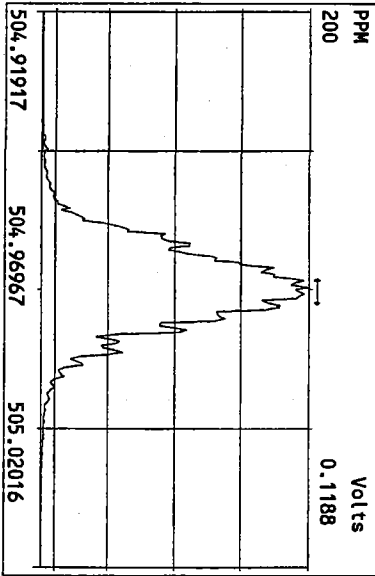
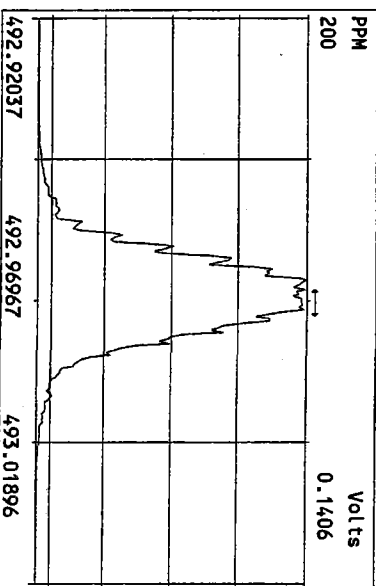
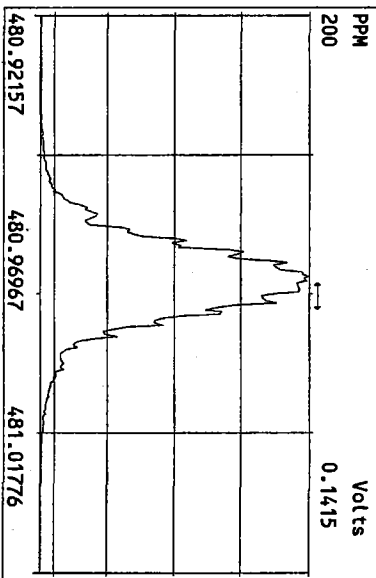
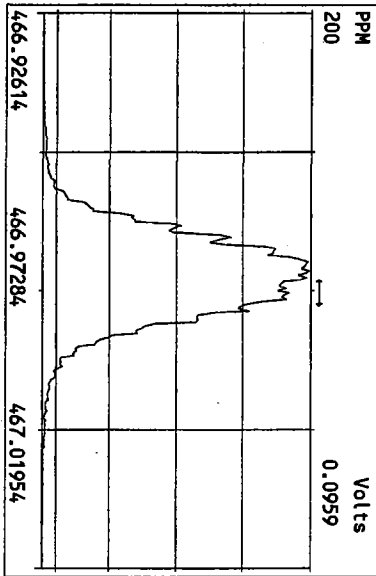
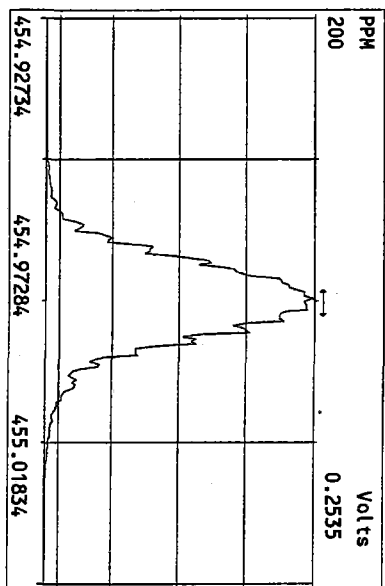
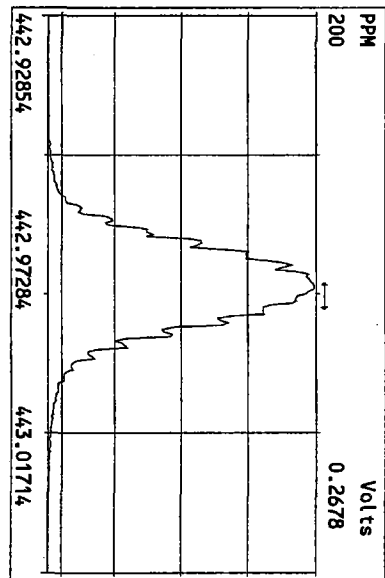
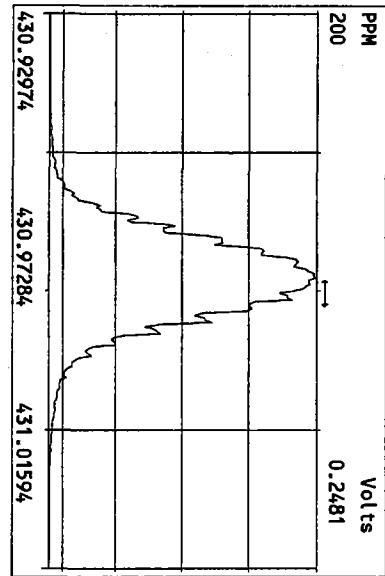
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Experiment: PCDD Function: 3 Reference: PFK



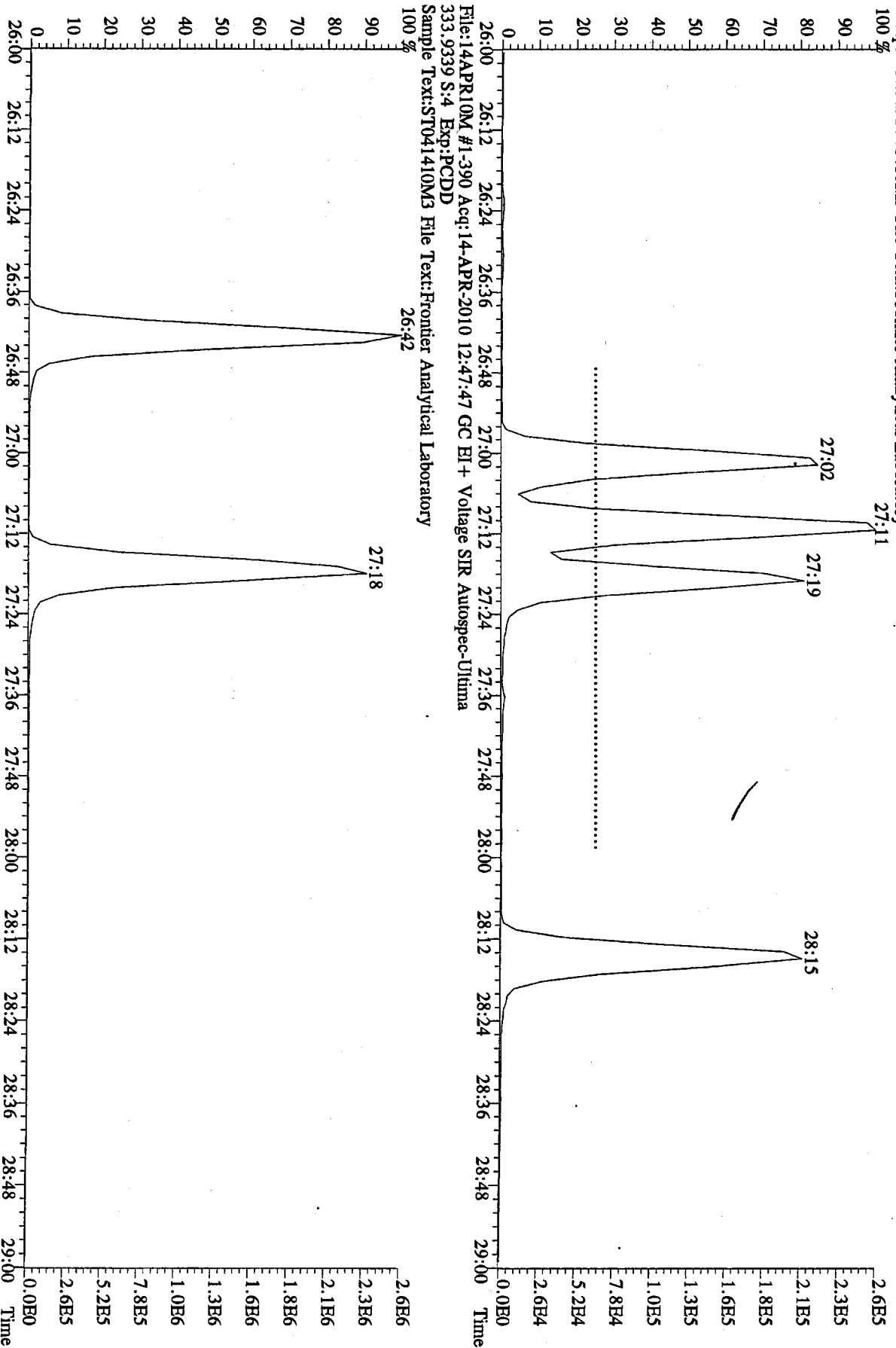
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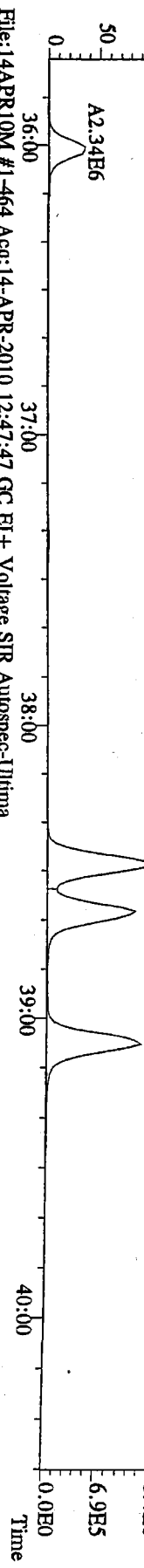
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 Experiment::PCDD Function:5 Reference:PFK



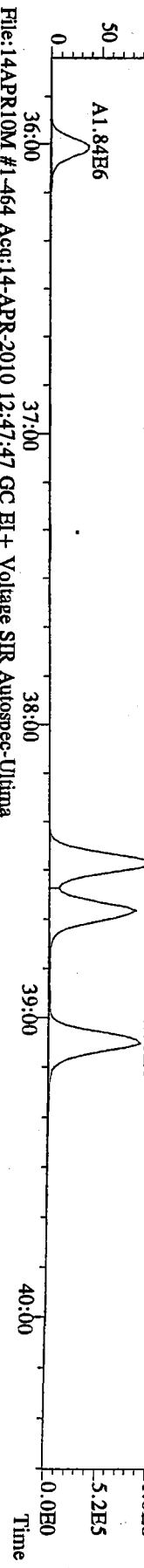
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319.8965 S:4 Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



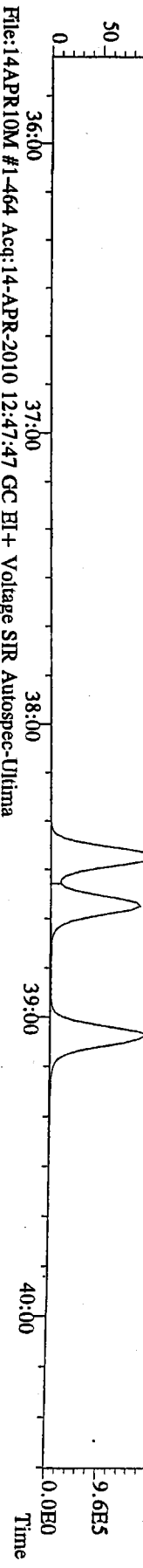
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 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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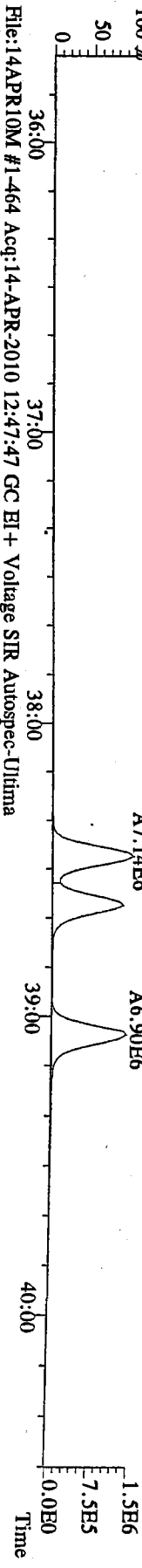
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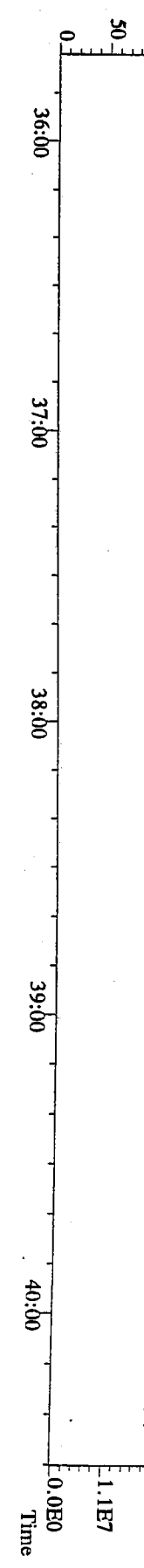
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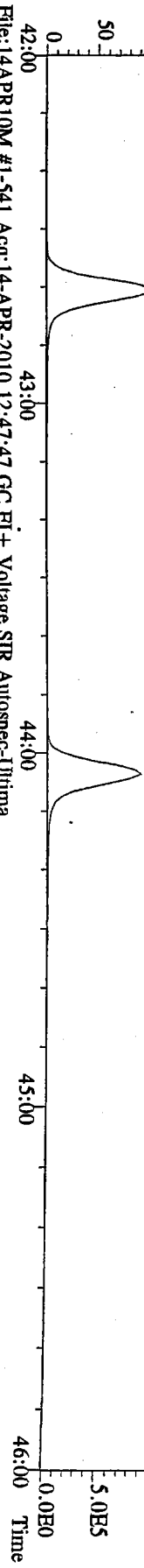
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 403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



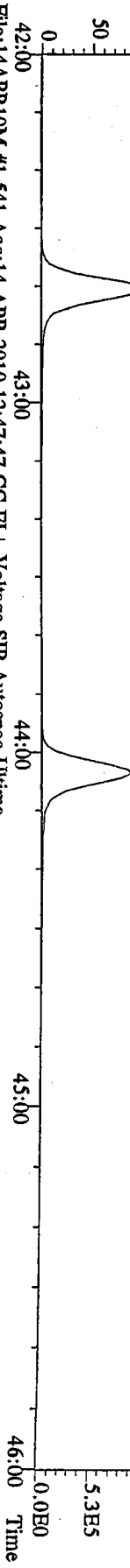
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 380.9760 S:4 F:3 Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



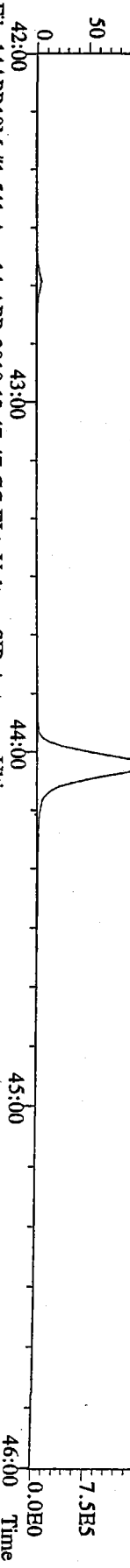
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



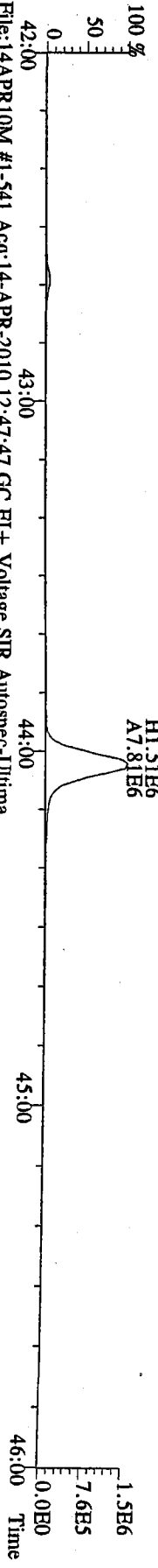
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425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



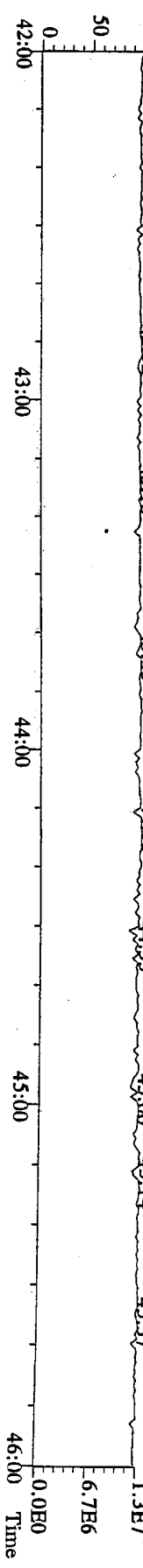
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Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 %



File:14APR10M #1-541 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory

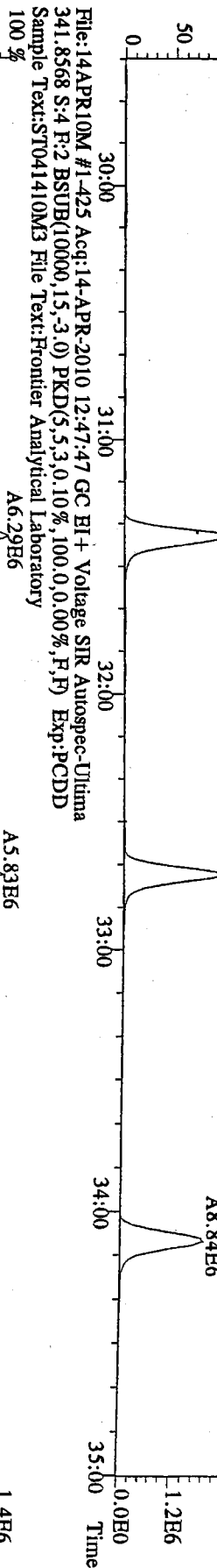


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430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory

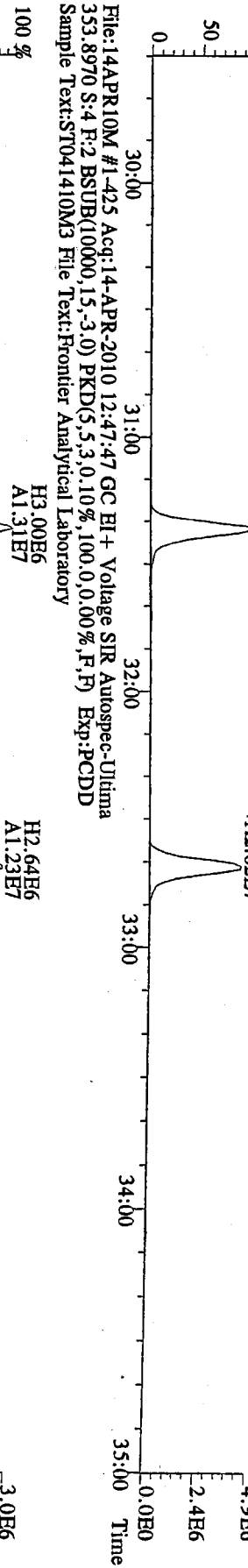


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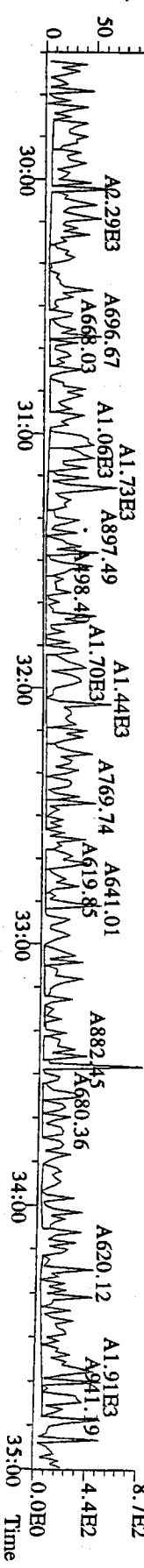
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 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



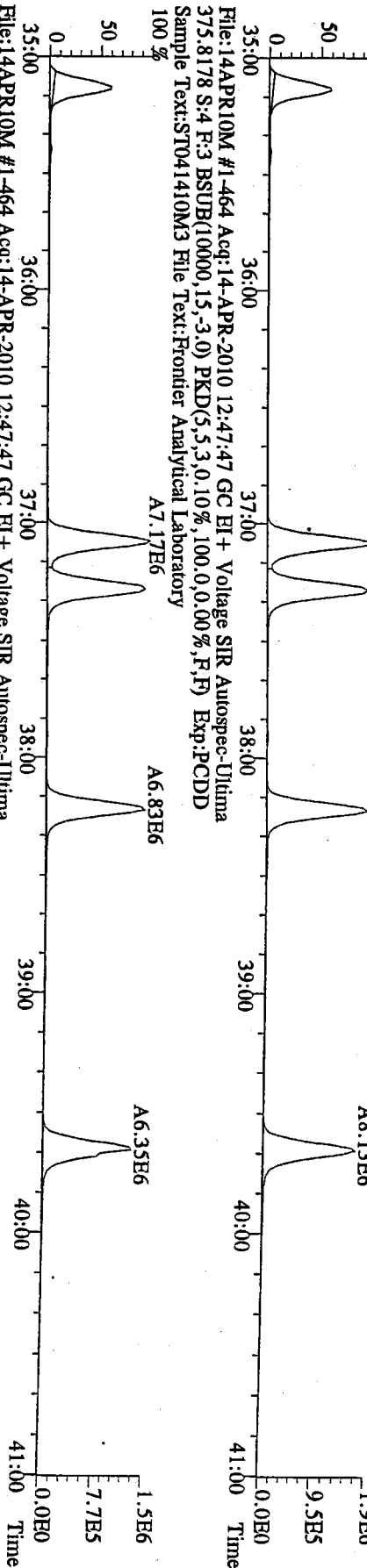
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 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



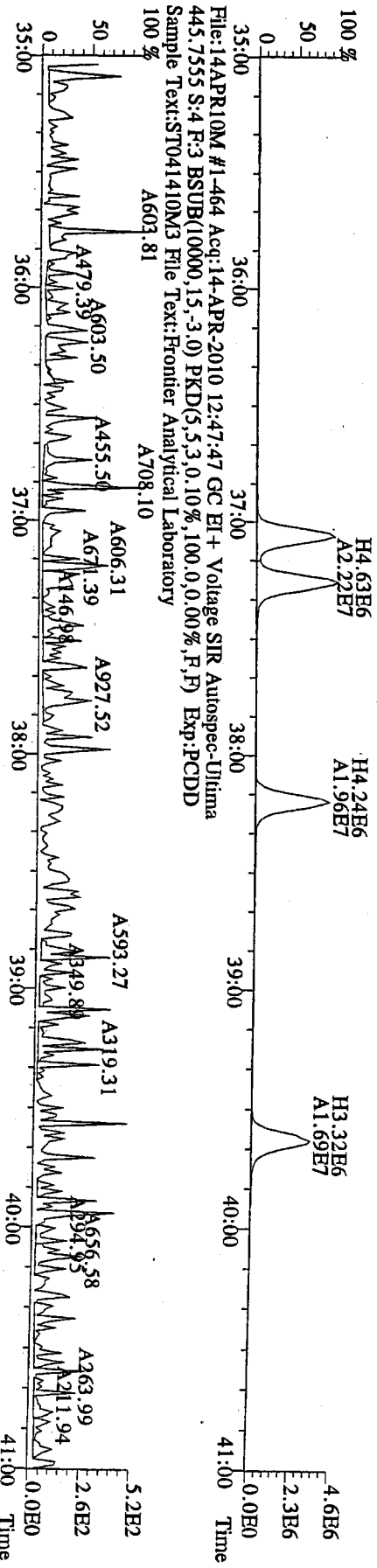
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 409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



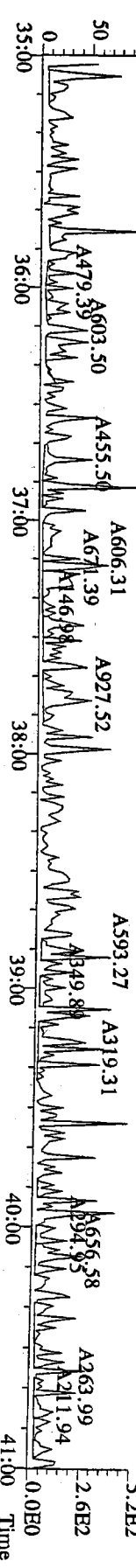
File:14APR10M #1-464 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



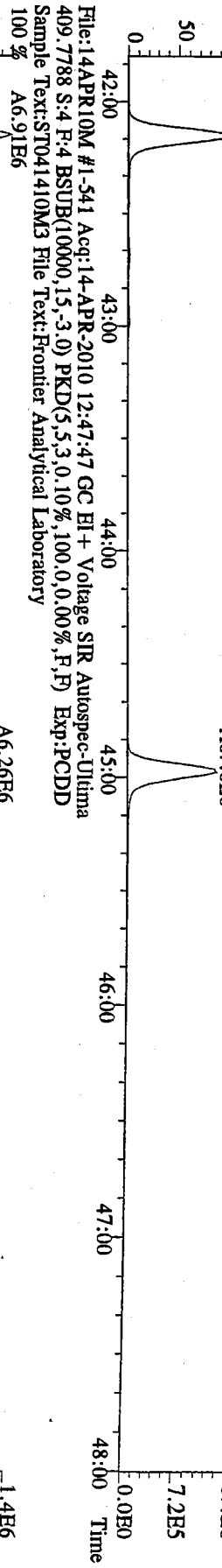
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 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



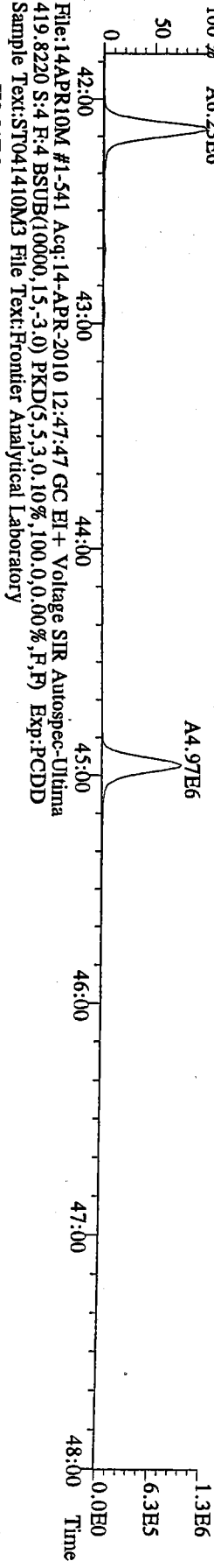
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 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory



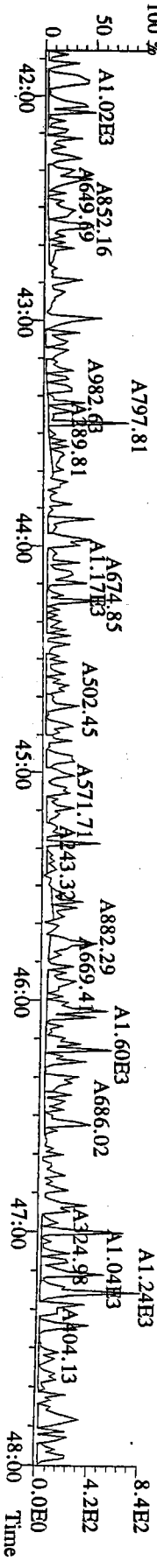
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407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 % A6.96E6



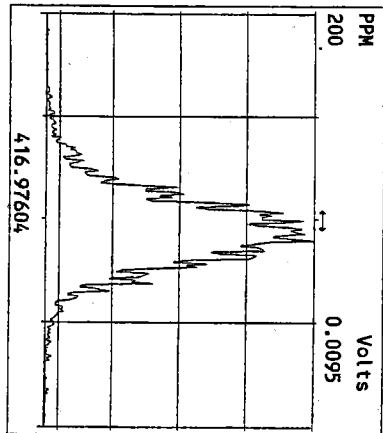
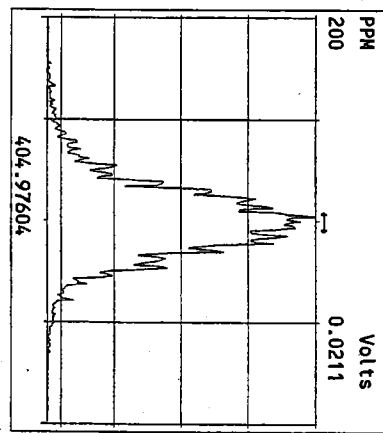
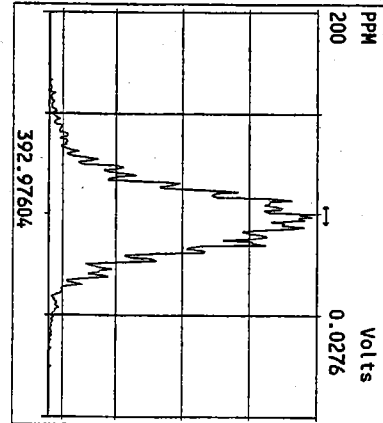
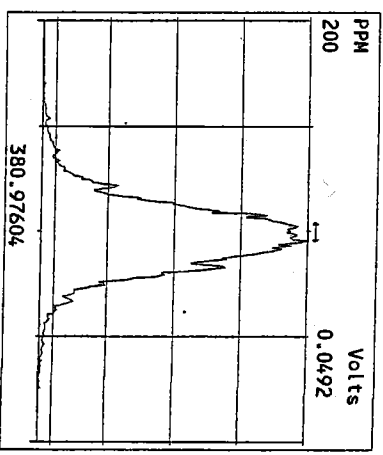
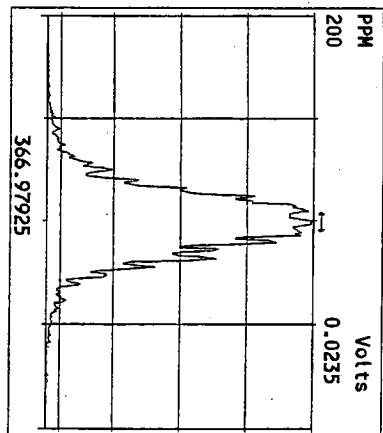
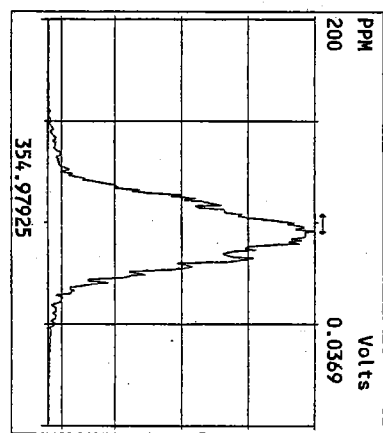
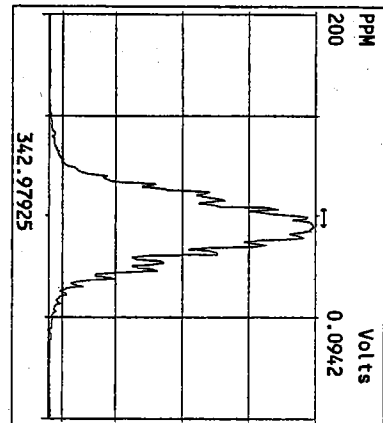
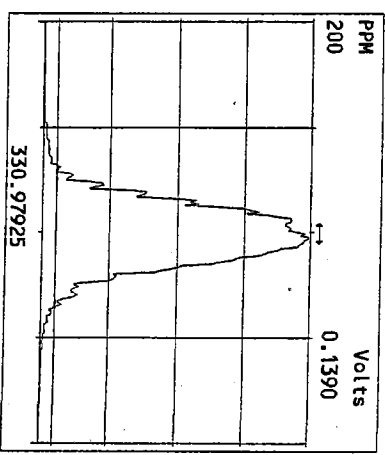
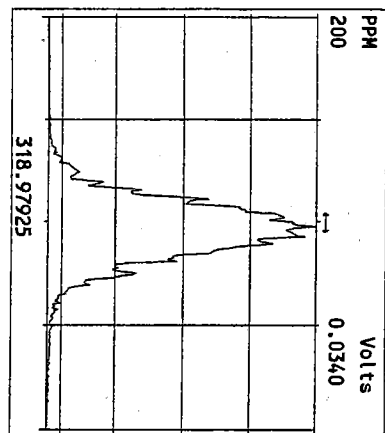
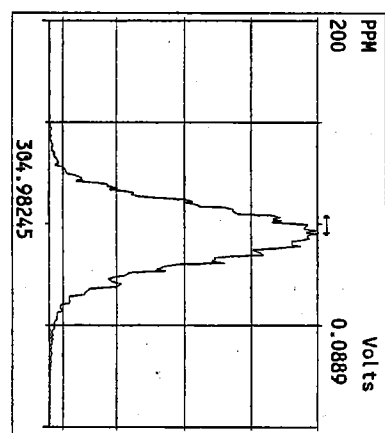
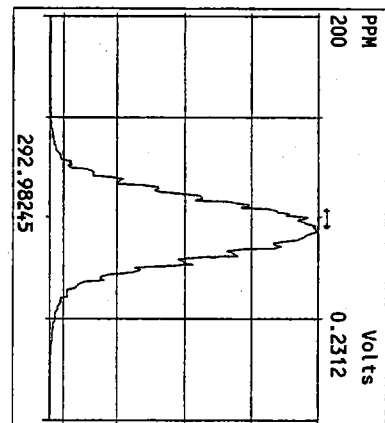
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417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
100 % A6.23E6

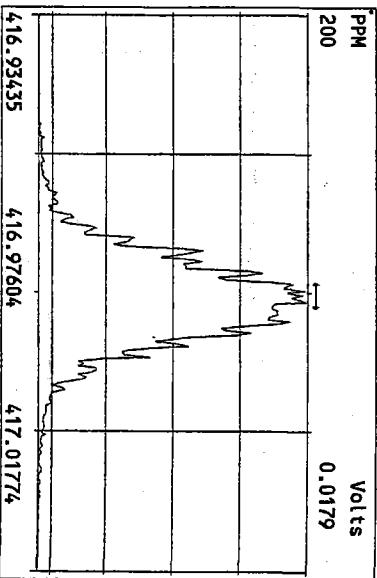
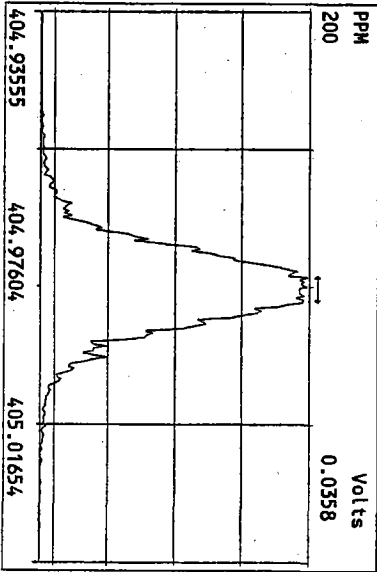
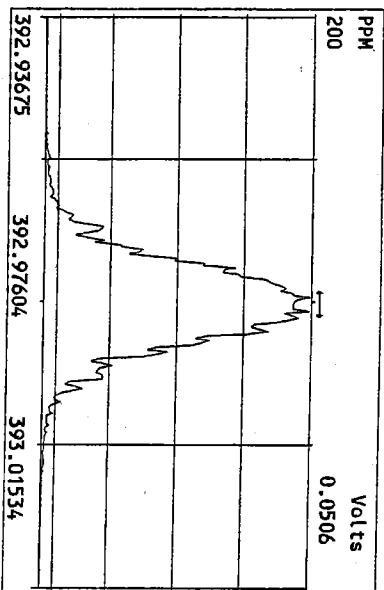
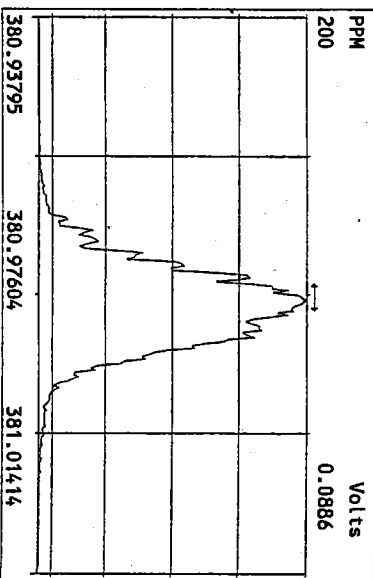
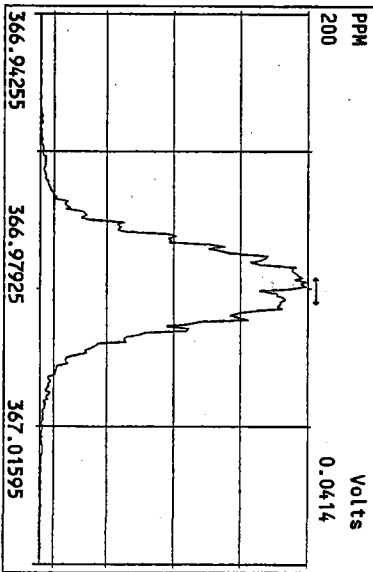
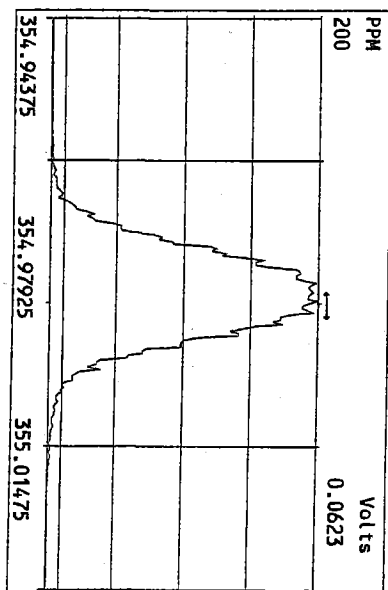
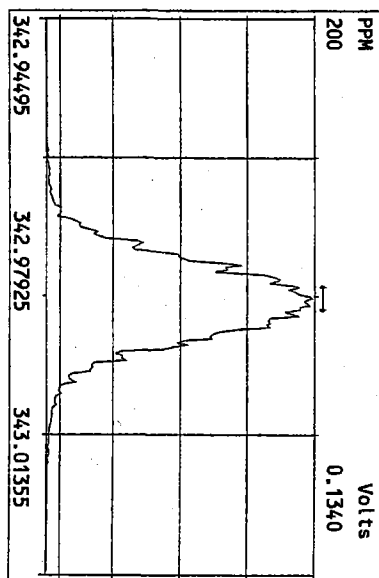
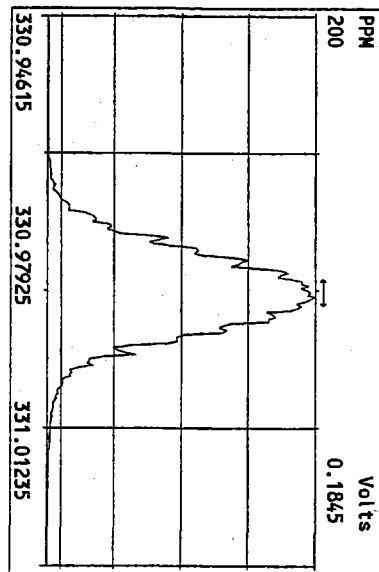


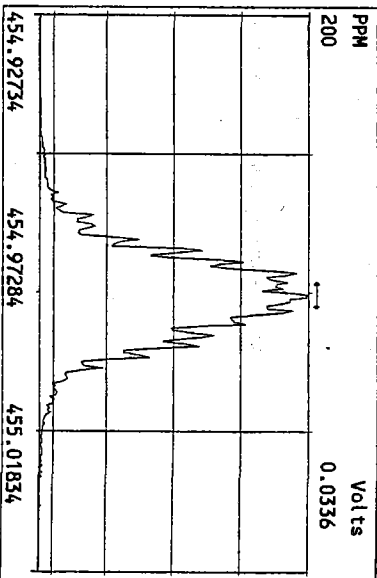
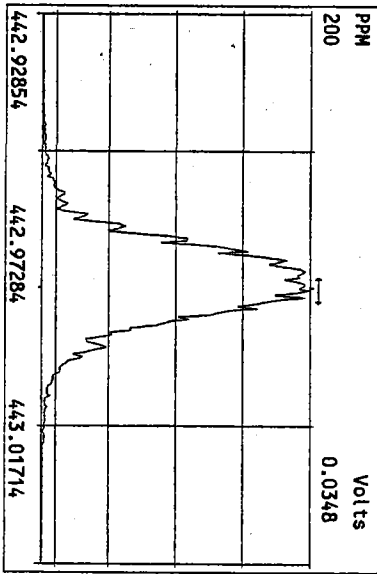
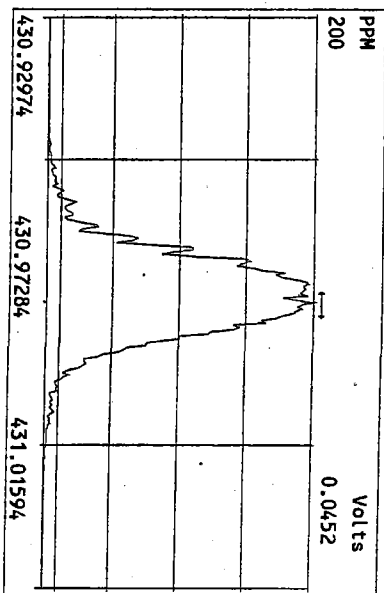
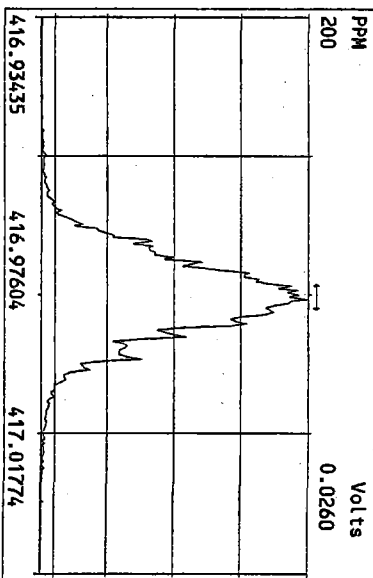
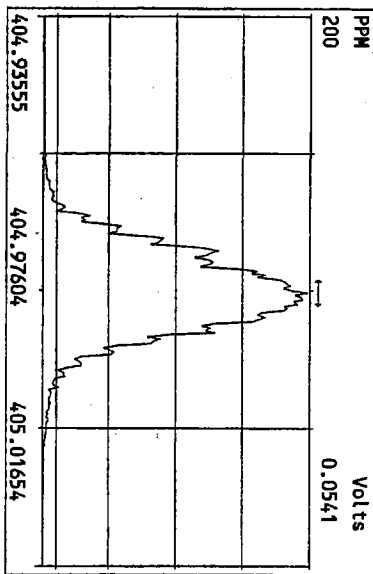
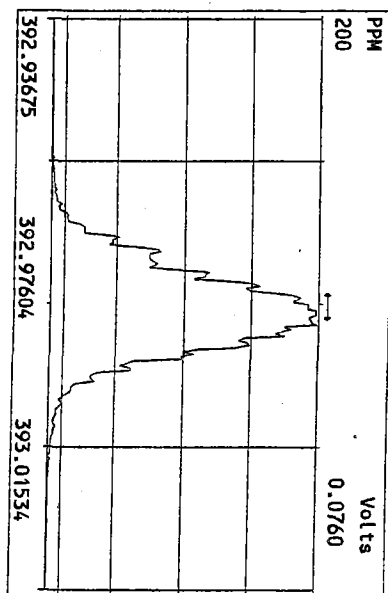
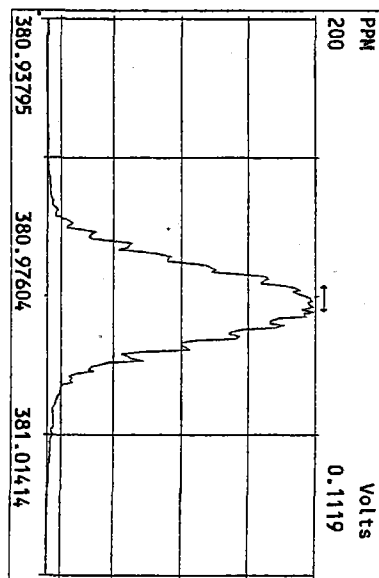
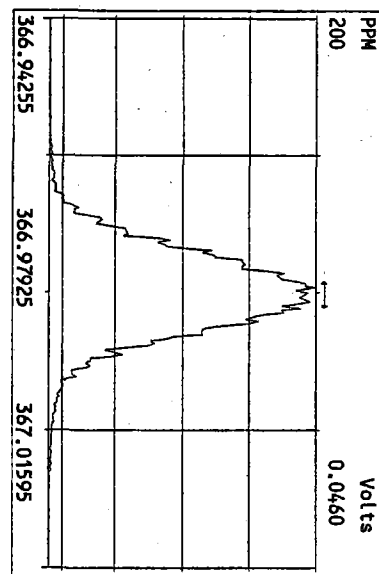
File:14APR10M #1-541 Acq:14-APR-2010 12:47:47 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST041410M3 File Text:Frontier Analytical Laboratory
H2.81E6
100 % A1.36E7

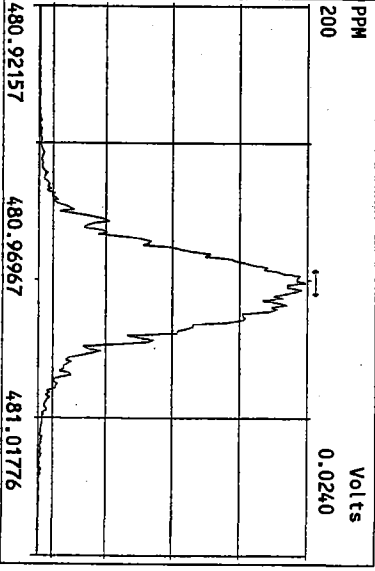
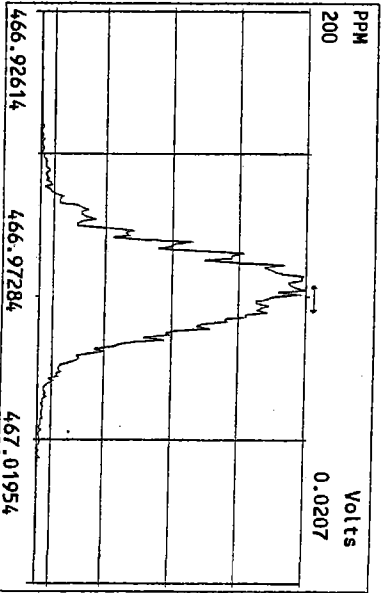
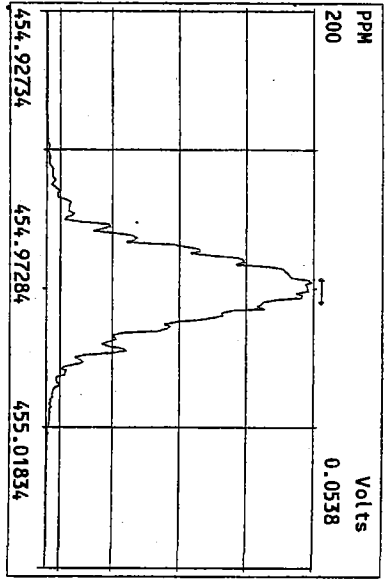
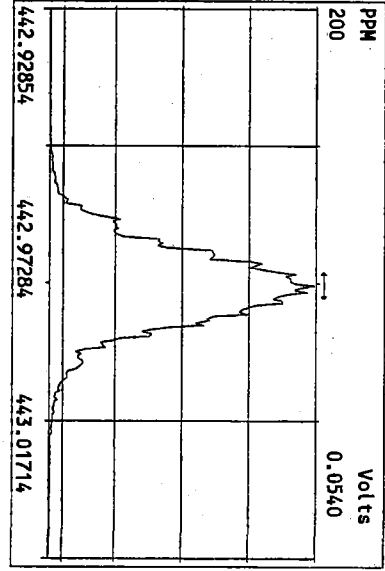
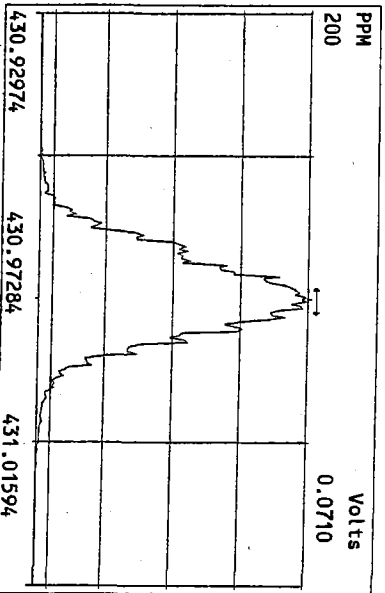
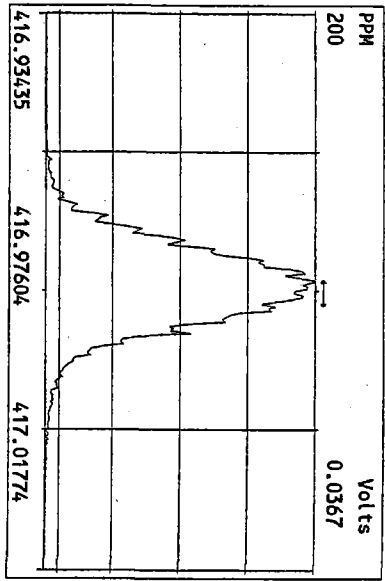
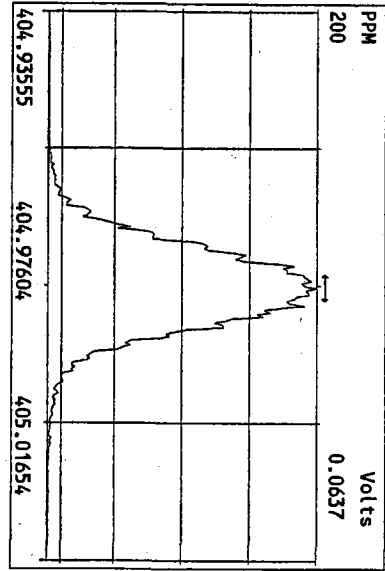


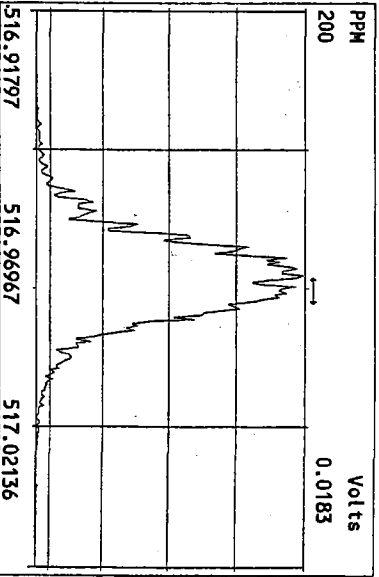
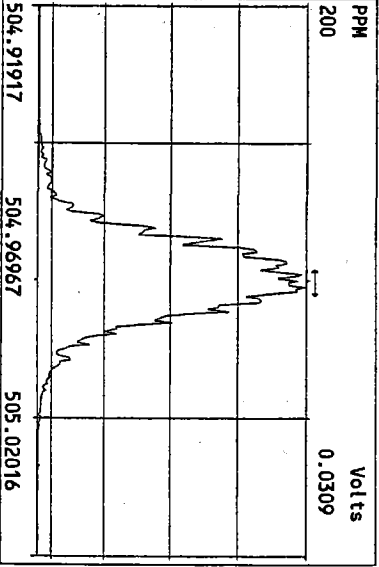
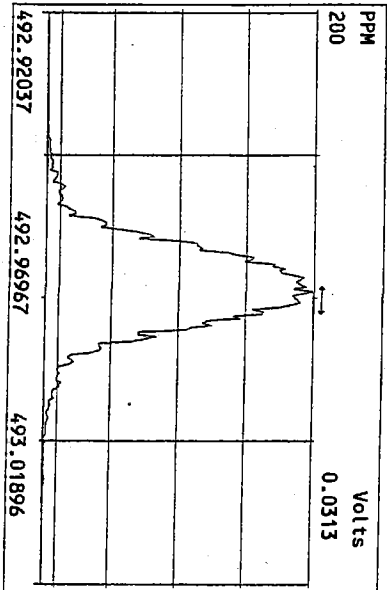
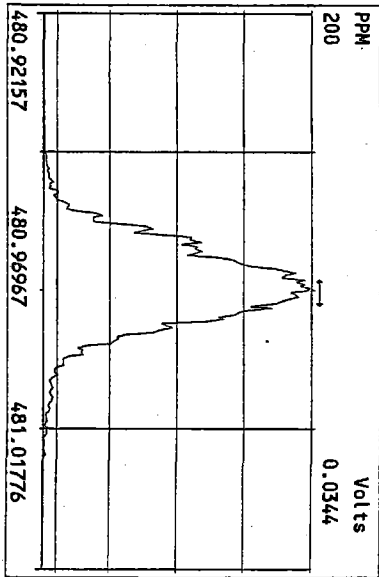
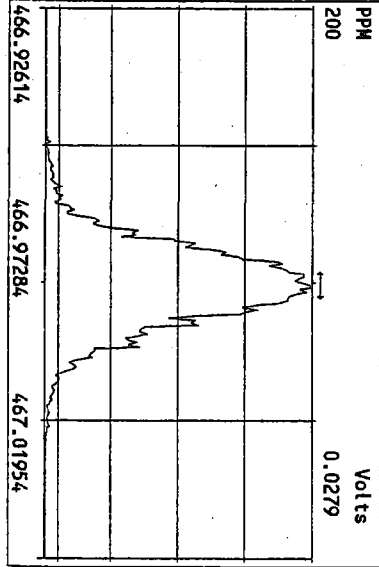
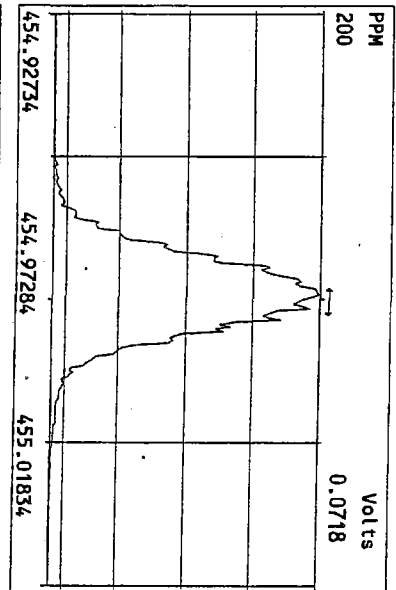
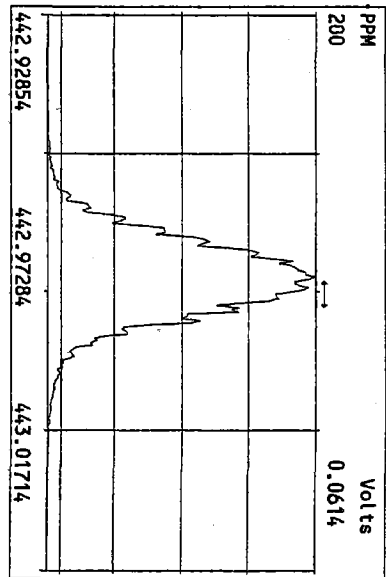
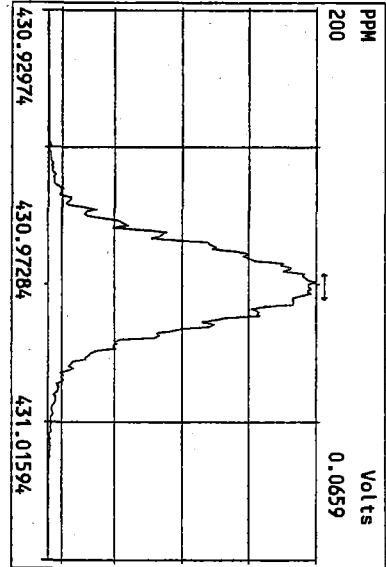
Peak Locate Examination:15-APR-2010:02:40 File:14APR10M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK











USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4/14/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14APR10M Sam:18

Analysis Date: 15-APR-10 01:42:40

| | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | ACCEPT | CONC. FOUND | CONC. RANGE (ng/mL) (3) |
|---------------------|-------------------------------|------------------------|---------------------|--------|----------------|-------------------------------|
| NATIVE ANALYTES | | | | | | |
| 2,3,7,8-TCDD | M/M+2 | 0.82 | 0.65-0.89 | y | 9.76 | 7.80 - 12.9 ✓ |
| 1,2,3,7,8-PeCDD | M+2/M+4 | 1.53 | 1.32-1.78 | y | 49.3 | 39.0 - 65.0 ✓ |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.27 | 1.05-1.43 | y | 49.6 | 39.0 - 64.0 ✓ |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.27 | 1.05-1.43 | y | 51.1 | 39.0 - 64.0 ✓ |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.28 | 1.05-1.43 | y | 51.7 | 41.0 - 61.0 ✓ |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 0.94 | 0.88-1.20 | y | 49.0 | 43.0 - 58.0 ✓ |
| OCDD | M+2/M+4 | 0.92 | 0.76-1.02 | y | 99.3 | 79.0 - 126 ✓ |
| 2,3,7,8-TCDF | M/M+2 | 0.66 | 0.65-0.89 | y | 9.62 | 8.40 - 12.0 ✓ |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.68 | 1.32-1.78 | y | 51.9 | 41.0 - 60.0 ✓ |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.67 | 1.32-1.78 | y | 50.8 | 41.0 - 60.0 ✓ |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.24 | 1.05-1.43 | y | 50.8 | 45.0 - 56.0 ✓ |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.6 | 44.0 - 57.0 ✓ |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.23 | 1.05-1.43 | y | 50.3 | 44.0 - 57.0 ✓ |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.25 | 1.05-1.43 | y | 50.6 | 45.0 - 56.0 ✓ |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.03 | 0.88-1.20 | y | 50.7 | 45.0 - 55.0 ✓ |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.02 | 0.88-1.20 | y | 50.3 | 43.0 - 58.0 ✓ |
| OCDF | M+2/M+4 | 0.90 | 0.76-1.02 | y | 98.4 | 63.0 - 159 ✓ |

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

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

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

Analyst: 

Date: 4/15/10

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 4/14/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 15-APR-10 01:42:40

CS3 or VER Data Filename: 14APR10M

Sam:18

| NATIVE ANALYTES | RETENTION TIME REFERENCE | RRT | RRT QC LIMITS (1) |
|---------------------|-----------------------------|-------|----------------------|
| 2,3,7,8-TCDD | 13C-2,3,7,8-TCDD | 1.001 | 0.999-1.002 ✓ |
| 2,3,7,8-TCDF | 13C-2,3,7,8-TCDF | 1.001 | 0.999-1.003 ✓ |
| 1,2,3,7,8-PeCDD | 13C-1,2,3,7,8-PeCDD | 1.001 | 0.999-1.002 ✓ |
| 1,2,3,7,8-PeCDF | 13C-1,2,3,7,8-PeCDF | 1.001 | 0.999-1.002 ✓ |
| 2,3,4,7,8-PeCDF | 13C-2,3,4,7,8-PeCDF | 1.000 | 0.999-1.002 ✓ |
| LABELED COMPOUNDS | | | |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | 1.023 | 0.989-1.052 ✓ |
| 13C-2,3,7,8-TCDD | | 1.022 | 0.976-1.043 ✓ |
| 13C-2,3,7,8-TCDF | | 0.993 | 0.923-1.103 ✓ |
| 13C-1,2,3,7,8-PeCDD | | 1.240 | 1.000-1.567 ✓ |
| 13C-1,2,3,7,8-PeCDF | | 1.175 | 0.923-1.203 ✓ |
| 13C-2,3,4,7,8-PeCDF | | 1.224 | 0.923-1.303 ✓ |

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

Analyst: Date: 4/15/10

FAL ID: ST041410M6 Filename: 14APR10M Sam:18 Acquired: 15-APR-10 01:42:40 ICAL: PCDDFAL3-4-14-10
 Client ID: 1613 CS3 (090918J) ConCal: ST041410M3 EndCal: ST041410M6

Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 101 WHO 1998 Tox: 125 WHO 2005 Tox: 114

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|-------|------|------|------|-------------|---------|----|-------|------|
| 2,3,7,8-TCDD | 2.26e+06 | 0.82 y | 27:18 | 1.12 | 9.76 | | 2.50 | - | * | 104 | 21 |
| 1,2,3,7,8-PeCDD | 1.19e+07 | 1.53 y | 33:06 | 1.07 | 49.3 | | 2.50 | - | * | 98.6 | 9 |
| 1,2,3,4,7,8-HxCDD | 1.24e+07 | 1.27 y | 38:27 | 1.39 | 49.6 | | 2.50 | - | * | 99.8 | 12 |
| 1,2,3,6,7,8-HxCDD | 1.08e+07 | 1.27 y | 38:37 | 1.36 | 51.1 | | 2.50 | - | * | 97.0 | 4 |
| 1,2,3,7,8,9-HxCDD | 1.22e+07 | 1.28 y | 39:04 | 1.40 | 51.7 | | 2.50 | - | * | | |
| 1,2,3,4,6,7,8-HpCDD | 1.06e+07 | 0.94 y | 44:02 | 1.14 | 49.0 | | 2.50 | - | * | 104 | |
| OCDD | 1.63e+07 | 0.92 y | 49:32 | 1.22 | 99.3 | | 2.50 | - | * | 100 | |
| 2,3,7,8-TCDF | 4.82e+06 | 0.66 y | 26:32 | 1.29 | 9.62 | | 2.50 | - | * | 104 | |
| 1,2,3,7,8-PeCDF | 1.86e+07 | 1.68 y | 31:22 | 0.93 | 51.9 | | 2.50 | - | * | 103 | |
| 2,3,4,7,8-PeCDF | 1.71e+07 | 1.67 y | 32:41 | 0.93 | 50.8 | | 2.50 | - | * | 102 | |
| 1,2,3,4,7,8-HxCDF | 1.72e+07 | 1.24 y | 37:04 | 1.07 | 50.8 | | 2.50 | - | * | 97.4 | |
| 1,2,3,6,7,8-HxCDF | 1.72e+07 | 1.25 y | 37:15 | 0.97 | 50.6 | | 2.50 | - | * | 96.8 | |
| 2,3,4,6,7,8-HxCDF | 1.65e+07 | 1.23 y | 38:12 | 1.04 | 50.3 | | 2.50 | - | * | 98.6 | |
| 1,2,3,7,8,9-HxCDF | 1.67e+07 | 1.25 y | 39:38 | 1.15 | 50.6 | | 2.50 | - | * | 102 | |
| 1,2,3,4,6,7,8-HpCDF | 1.50e+07 | 1.03 y | 42:08 | 1.37 | 50.7 | | 2.50 | - | * | 96.8 | |
| 1,2,3,4,7,8,9-HpCDF | 1.45e+07 | 1.02 y | 44:57 | 1.62 | 50.3 | | 2.50 | - | * | 100 | |
| OCDF | 1.90e+07 | 0.90 y | 49:55 | 0.85 | 98.4 | | 2.50 | - | * | 96.4 | |
| 13C-2,3,7,8-TCDD | 2.07e+07 | 0.73 y | 27:16 | 0.98 | 104 | | | | | 104 | |
| 13C-1,2,3,7,8-PeCDD | 2.26e+07 | 1.61 y | 33:05 | 1.14 | 98.6 | | | | | 98.6 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.80e+07 | 1.29 y | 38:26 | 1.00 | 99.8 | | | | | 99.8 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.56e+07 | 1.28 y | 38:36 | 0.89 | 97.0 | | | | | 97.0 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.89e+07 | 1.03 y | 44:01 | 1.01 | 104 | | | | | 104 | |
| 13C-OCDD | 2.70e+07 | 0.96 y | 49:31 | 0.75 | 200 | | | | | 100 | |
| 13C-2,3,7,8-TCDF | 3.89e+07 | 0.86 y | 26:30 | 0.93 | 104 | | | | | 104 | |
| 13C-1,2,3,7,8-PeCDF | 3.87e+07 | 1.62 y | 31:20 | 0.93 | 103 | | | | | 103 | |
| 13C-2,3,4,7,8-PeCDF | 3.60e+07 | 1.63 y | 32:40 | 0.87 | 102 | | | | | 102 | |
| 13C-1,2,3,4,7,8-HxCDF | 3.18e+07 | 0.47 y | 37:03 | 1.82 | 97.4 | | | | | 97.4 | |
| 13C-1,2,3,6,7,8-HxCDF | 3.49e+07 | 0.47 y | 37:14 | 2.01 | 96.8 | | | | | 96.8 | |
| 13C-2,3,4,6,7,8-HxCDF | 3.14e+07 | 0.47 y | 38:11 | 1.77 | 98.6 | | | | | 98.6 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.87e+07 | 0.47 y | 39:36 | 1.57 | 102 | | | | | 102 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 2.16e+07 | 0.47 y | 42:07 | 1.24 | 96.8 | | | | | 96.8 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.79e+07 | 0.46 y | 44:56 | 0.99 | 100 | | | | | 100 | |
| 13C-OCDF | 4.56e+07 | 0.90 y | 49:55 | 1.32 | 193 | | | | | 96.4 | |
| 37Cl-2,3,7,8-TCDD | 2.26e+06 | | 27:18 | 1.10 | 10.2 | | | | | 102 | |
| 13C-1,2,3,4-TCDD | 2.02e+07 | 0.75 y | 26:41 | - | 115 | | | | | | |
| 13C-1,2,3,4-TCDF | 4.04e+07 | 0.88 y | 25:26 | - | 109 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.80e+07 | 1.32 y | 39:03 | - | 110 | | | | | | |
| Total Tetra-Dioxins | 1.22e+07 | | 24:17 | 1.12 | 52.6 | | 2.50 | - | * | | |
| Total Penta-Dioxins | 2.62e+07 | | 30:08 | 1.07 | 108 | | 2.50 | - | * | | |
| Total Hexa-Dioxins | 4.02e+07 | | 35:59 | 1.38 | 173 | | 2.50 | - | * | | |
| Total Hepta-Dioxins | 2.22e+07 | | 42:39 | 1.14 | 103 | | 2.50 | - | * | | |
| Total Tetra-Furans | 2.04e+07 | | 22:56 | 1.29 | 40.8 | | 2.50 | - | * | | 18 |
| 1st Fn. Tot Penta-Furans | 1.43e+07 | | 28:18 | 0.93 | 41.2 | | 2.50 | - | * | PeCDF | 1 |
| Total Penta-Furans | 5.22e+07 | | 30:04 | 0.93 | 150 | | 2.50 | - | * | | 13 |
| Total Hexa-Furans | 7.54e+07 | | 35:07 | 1.05 | 226 | | 2.50 | - | * | | 9 |
| Total Hepta-Furans | 3.01e+07 | | 42:08 | 1.48 | 103 | | 2.50 | - | * | | 5 |

Analyst: 

Date: 4/15/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:14APR10M

Instrument: FAL3

GC: DB5

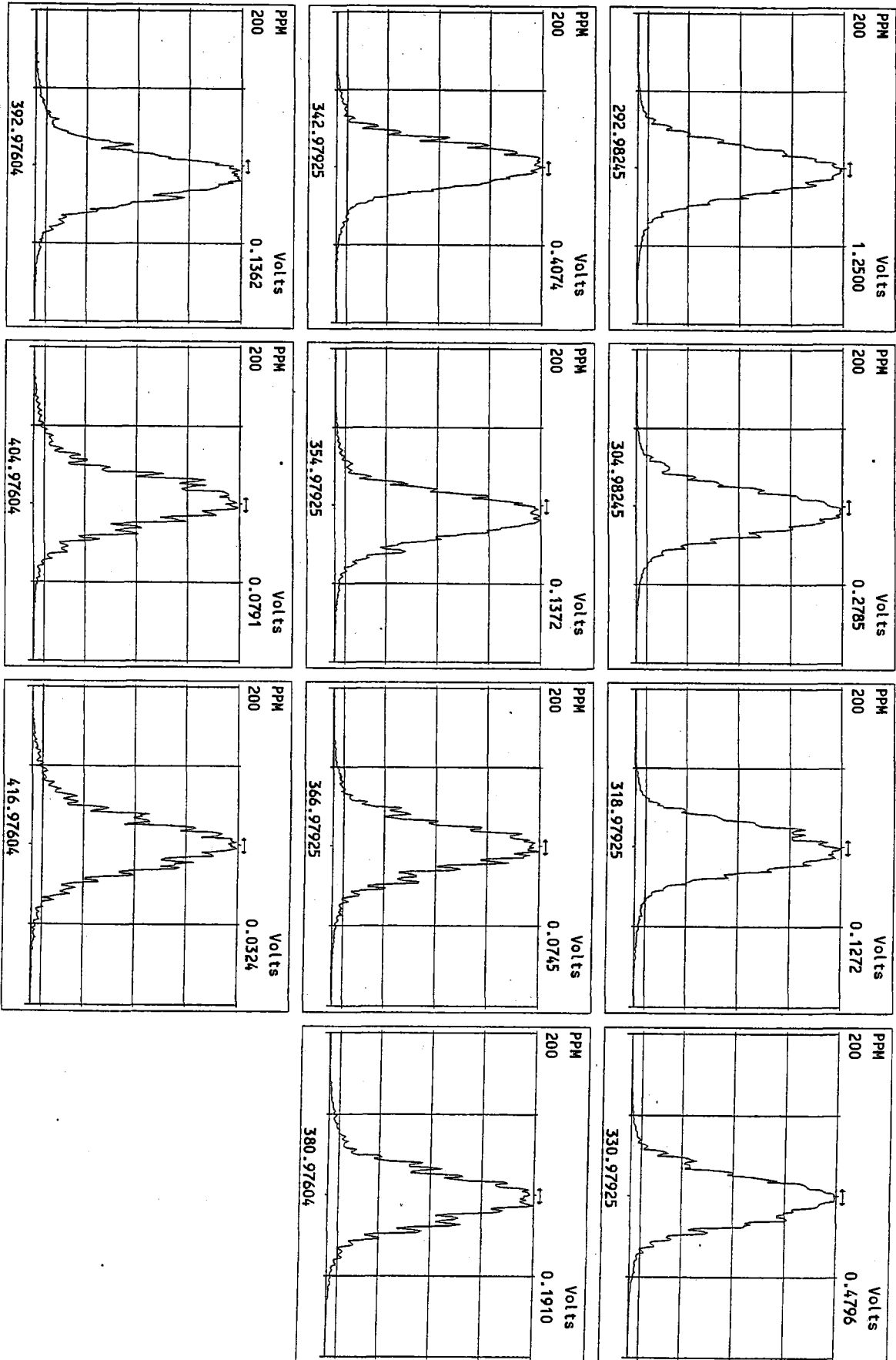
Experiment:PCDD

| Data File S | FAL ID | Client ID | Acquired | ConCal | EndCal | Analyst |
|-------------|-------------------|--------------------|--------------------|------------|------------|---------|
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| 14APR10M 2 | ST041410M1 | 1613 CS1 090918H | 14-APR-10 10:57:09 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 3 | ST041410M2 | 1613 CS2 090918I | 14-APR-10 11:52:28 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 4 | ST041410M3 | 1613 CS3 090918J | 14-APR-10 12:47:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 5 | ST041410M4 | 1613 CS4 090918K | 14-APR-10 13:43:05 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 6 | ST041410M5 | 1613 CS5 090918L | 14-APR-10 14:38:27 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 7 | SB041410M1 | Solvent Blank | 14-APR-10 15:33:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 8 | 1987-001-0001-OPR | OPR | 14-APR-10 16:29:08 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 9 | 1987-001-0001-MB | Method Blank | 14-APR-10 17:24:28 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 10 | 6016-005-0002-DUP | MW-107A | 14-APR-10 18:19:50 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 11 | 6077-001-0001-SA | E-001 | 14-APR-10 19:15:06 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 12 | 6074-001-0001-SA | 31983 SPENT CAUST | 14-APR-10 20:10:24 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 13 | 6076-001-0001-SA | CB31A032910COMP | 14-APR-10 21:05:47 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 14 | 6076-002-0001-SA | CB4857032910COMP | 14-APR-10 22:01:10 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 15 | 6076-003-0001-SA | CB1032910COMP | 14-APR-10 22:56:33 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 16 | 6076-004-0001-SA | CB100032910COMP | 14-APR-10 23:51:58 | ST041410M3 | ST041410M6 | TC |
| 14APR10M 17 | SB041410M2 | Solvent Blank | 15-APR-10 00:47:21 | ST041410M3 | ST041410M6 | TC |
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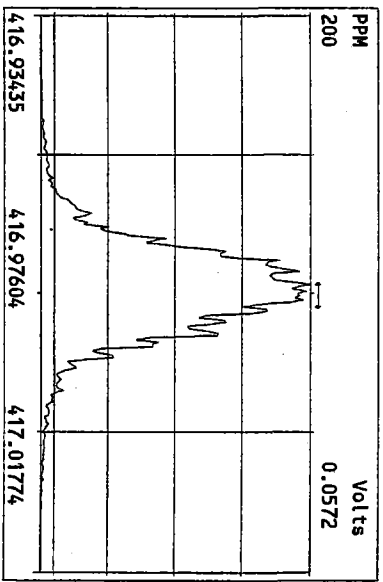
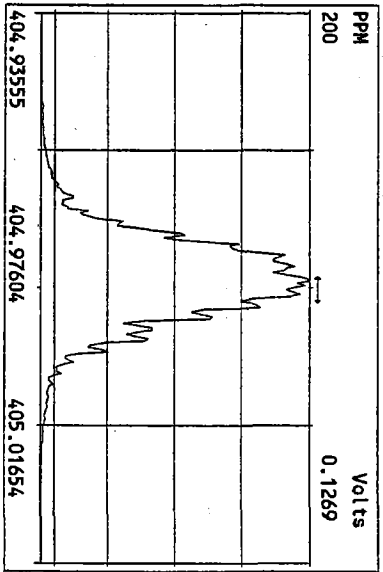
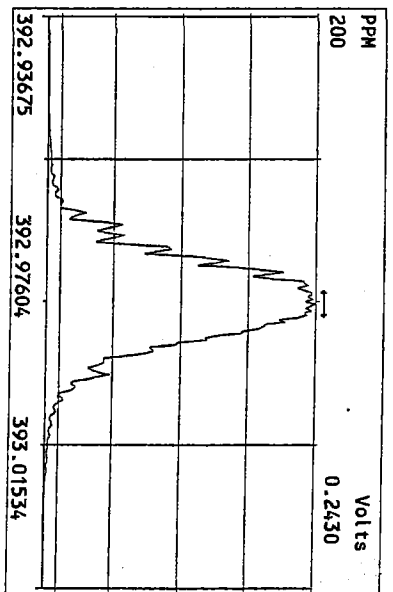
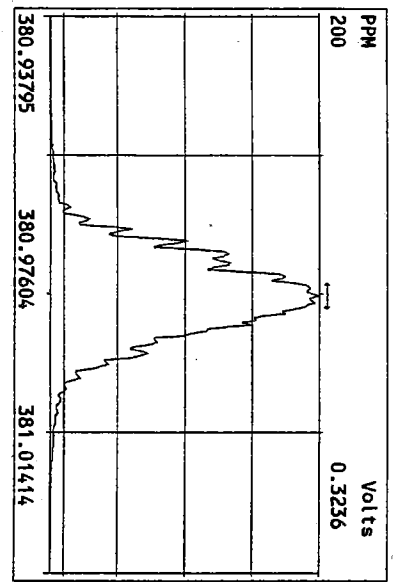
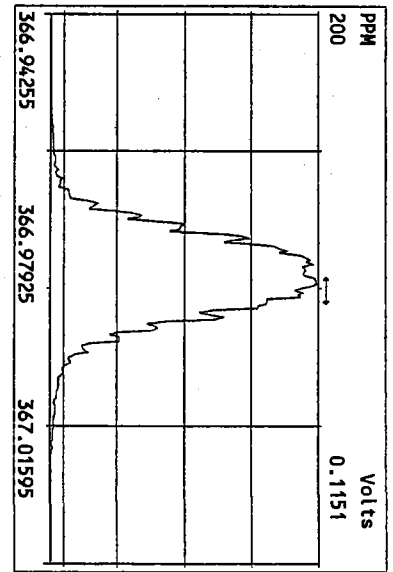
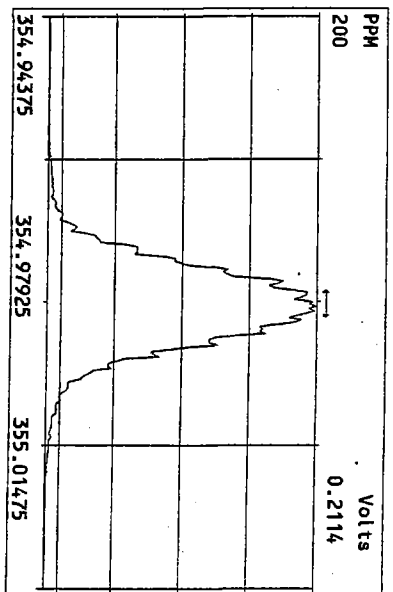
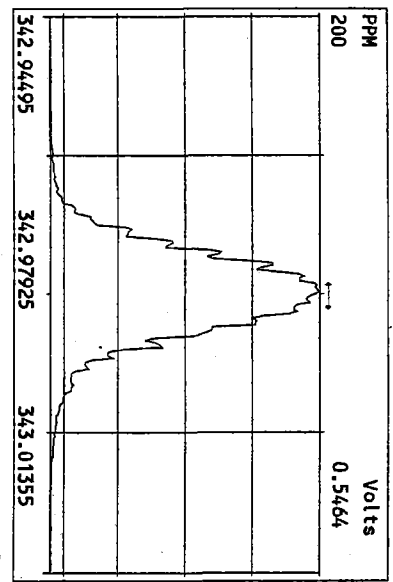
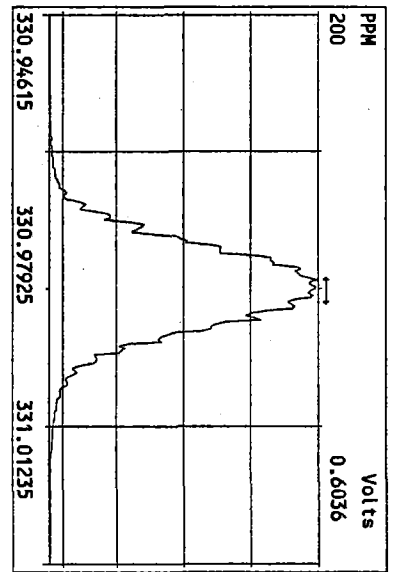
Data Backed Up: _____

Date: _____

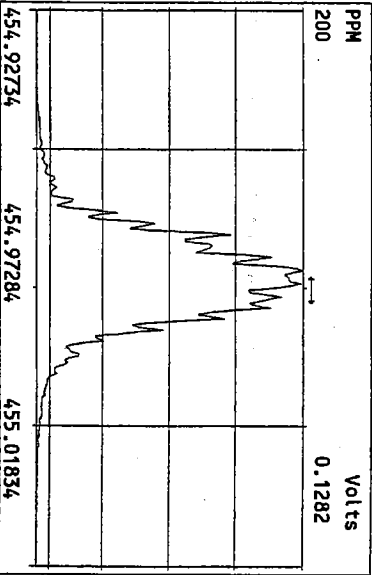
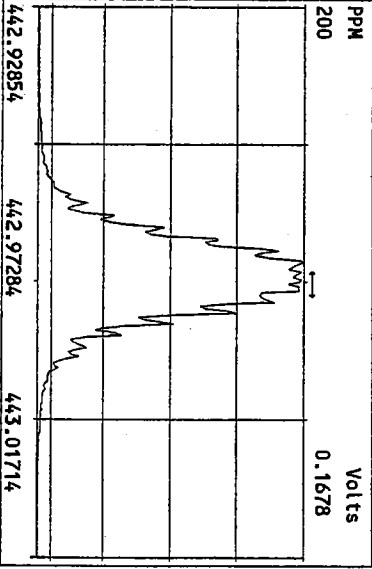
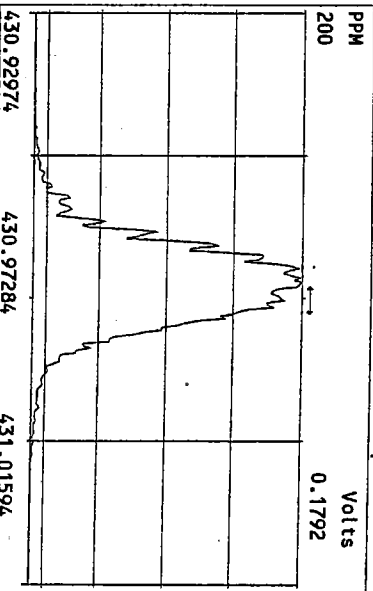
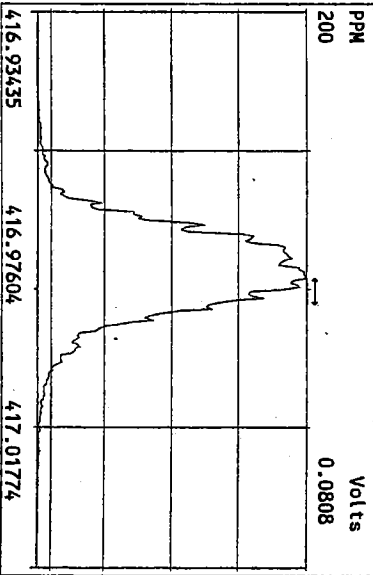
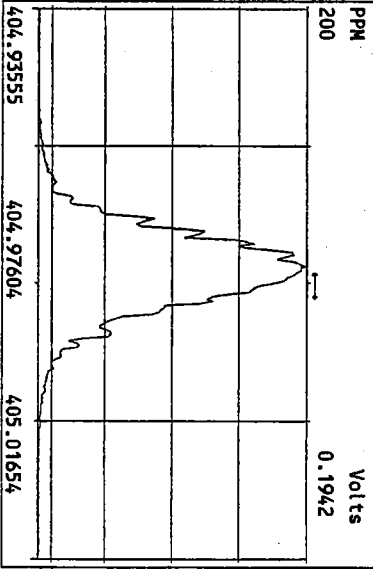
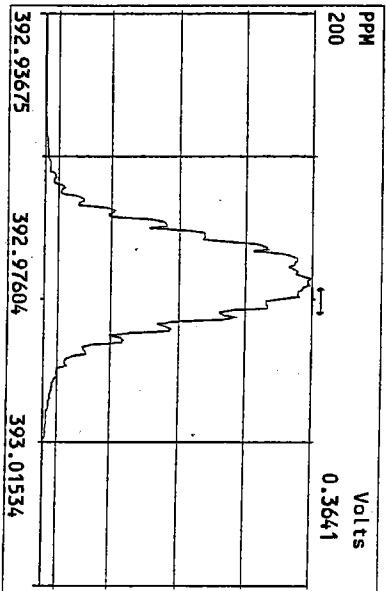
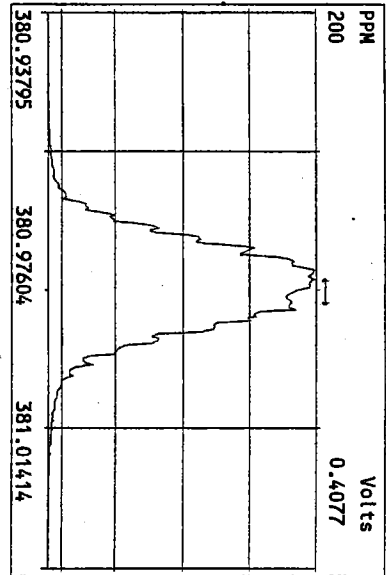
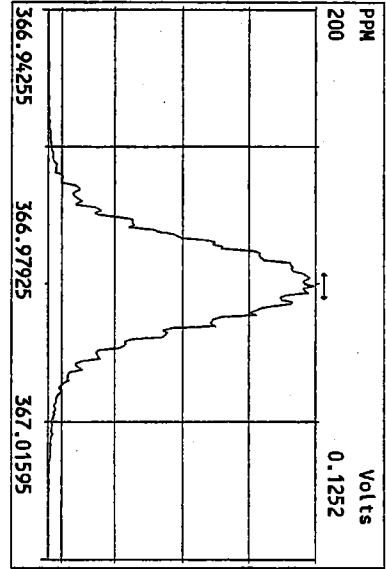
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Experiment: PDD Function: 1 Reference: PK



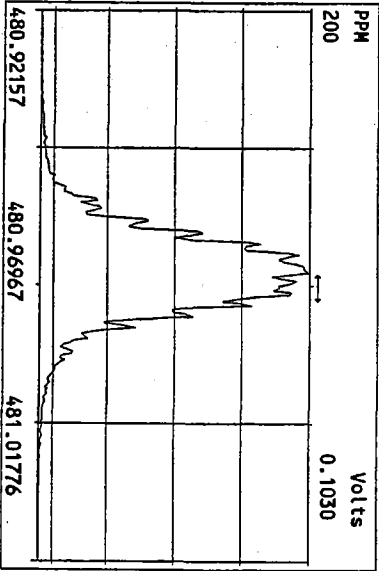
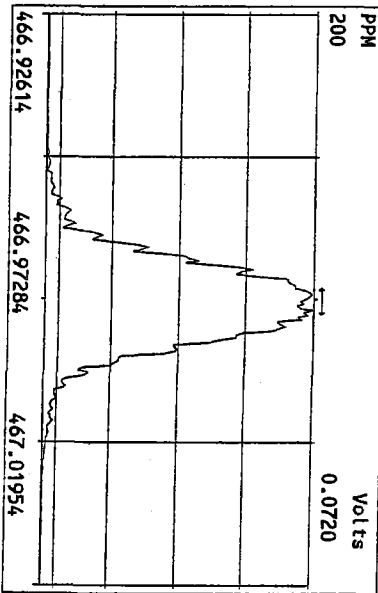
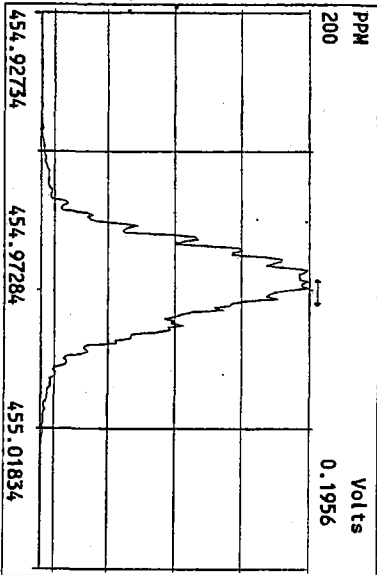
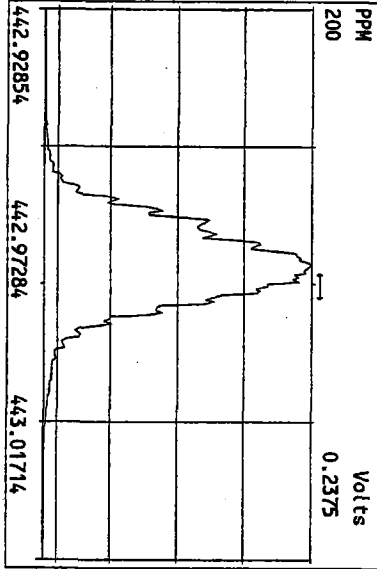
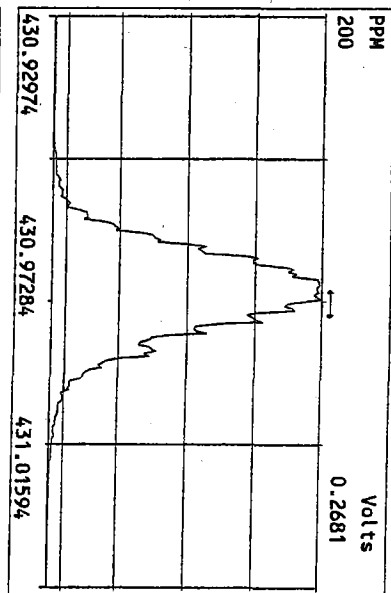
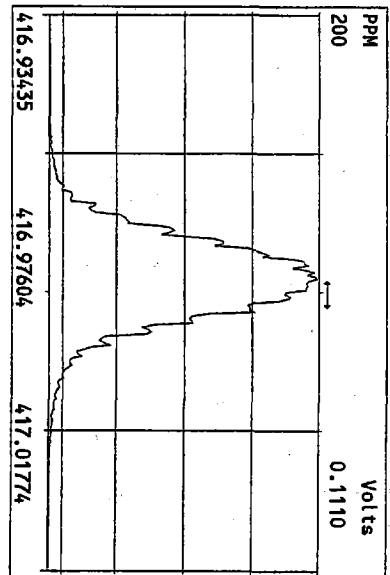
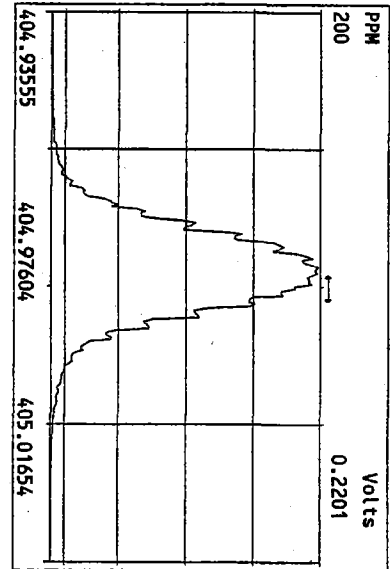
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 Experiment: PCD Function: 2 Reference: PFK



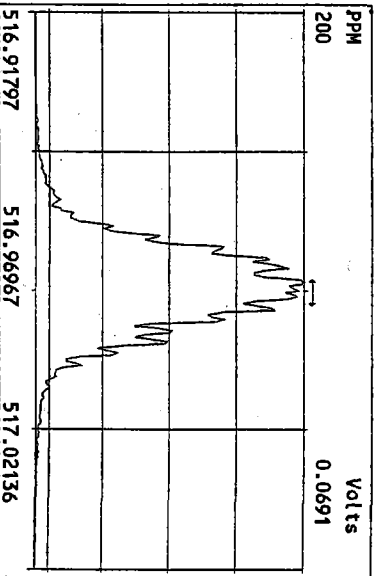
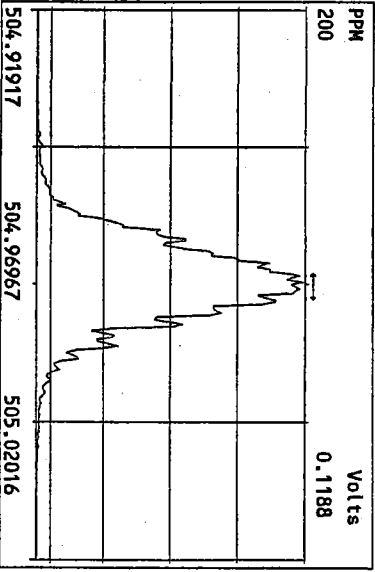
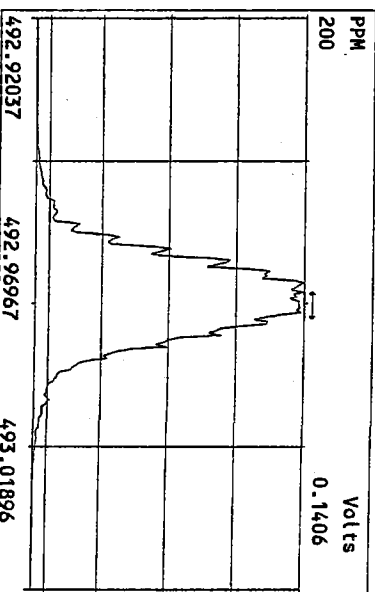
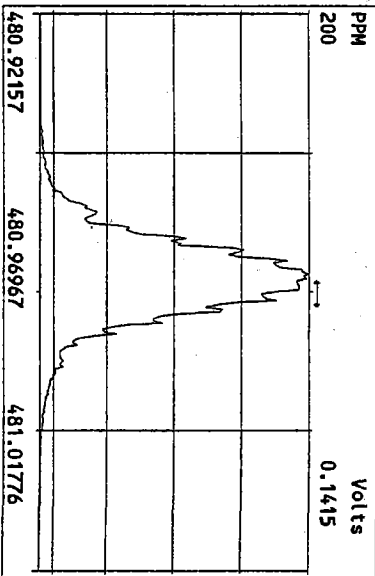
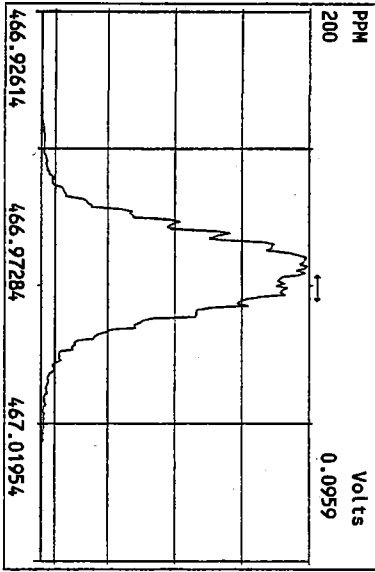
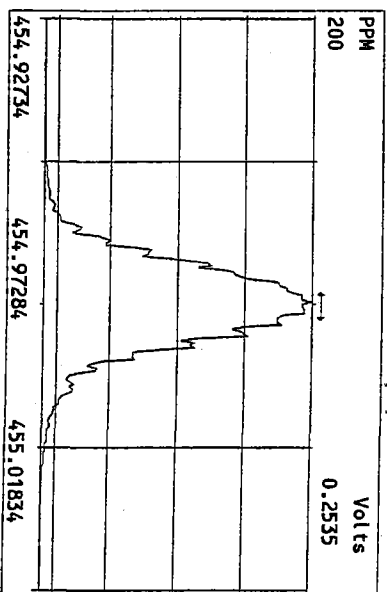
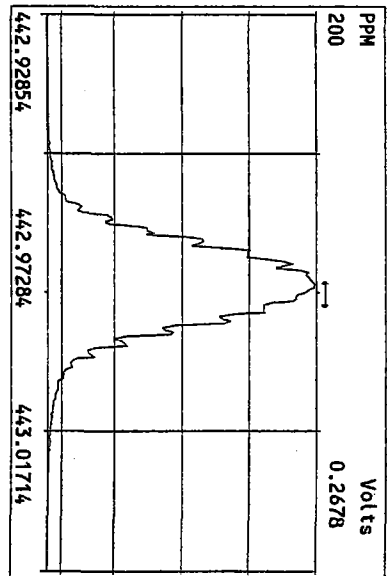
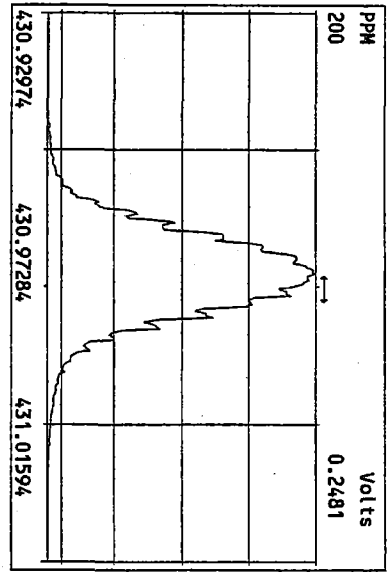
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Experiment:P/CDD Function:3 Reference:PFK



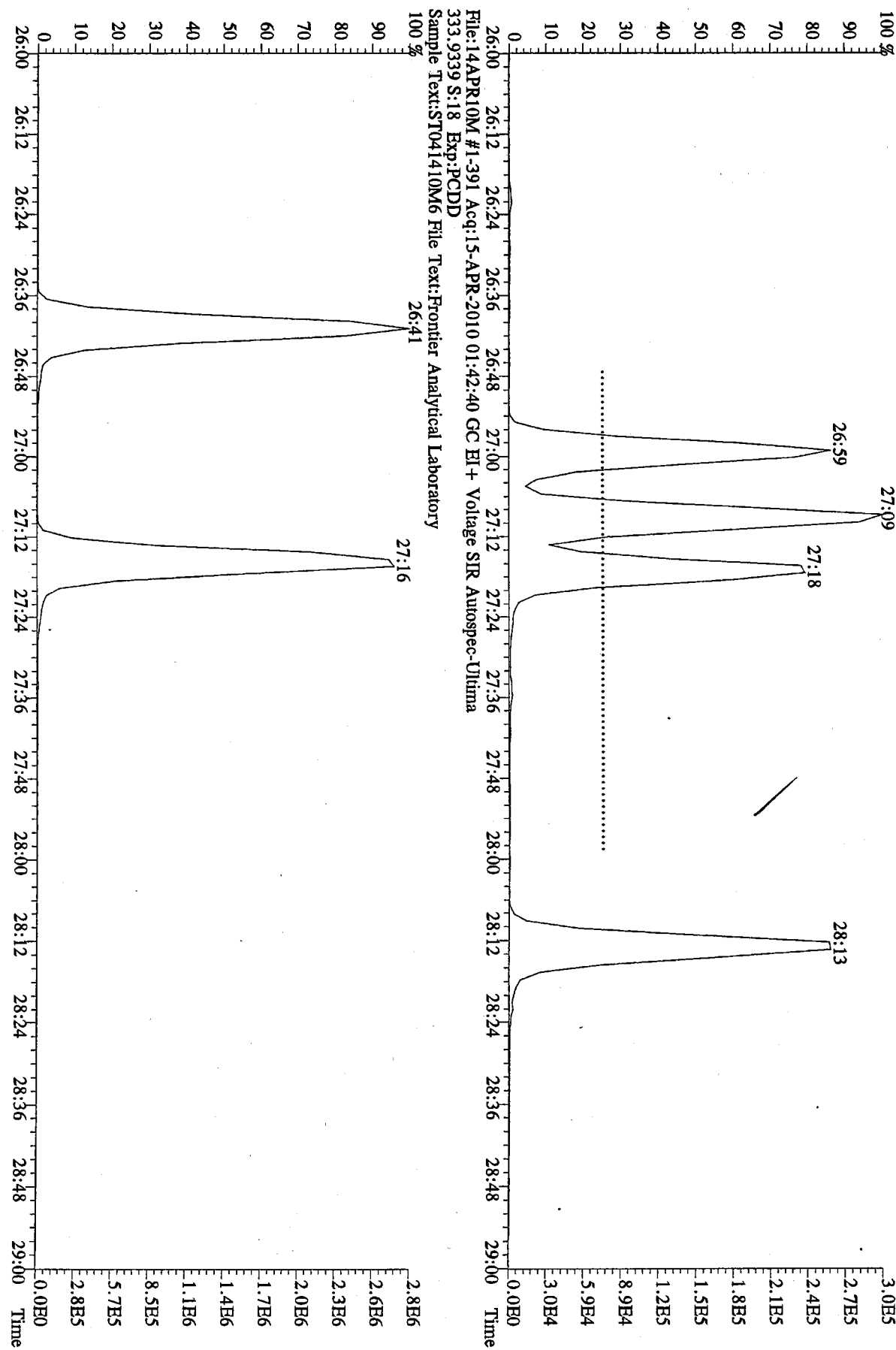
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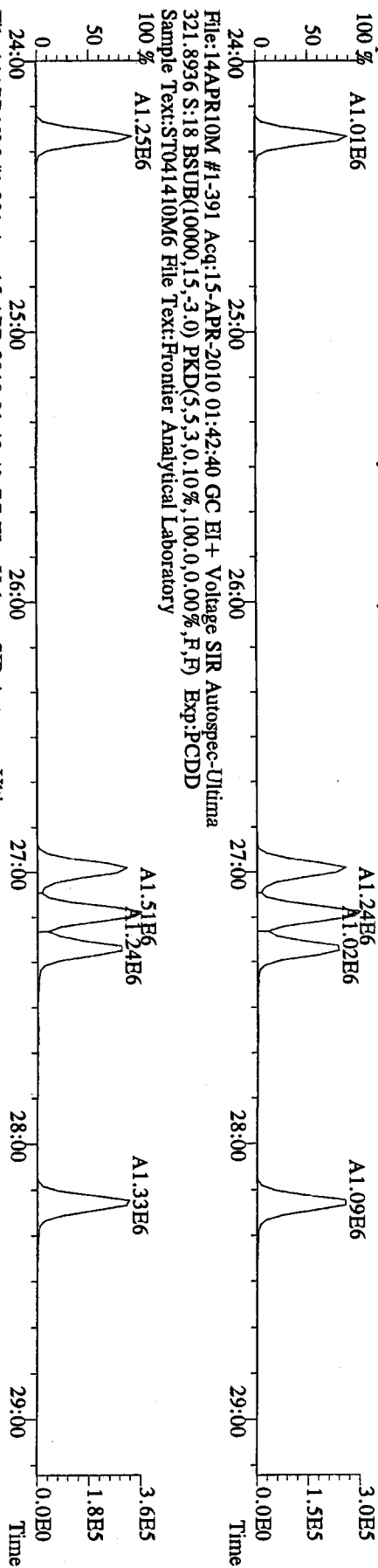


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319.8965 S:18 Exp:PCDD
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100%

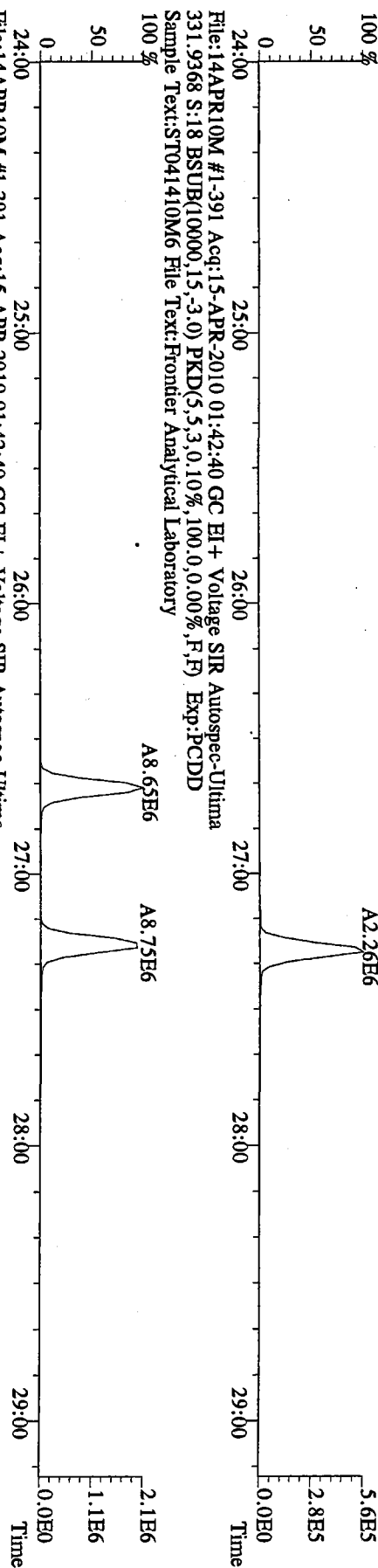


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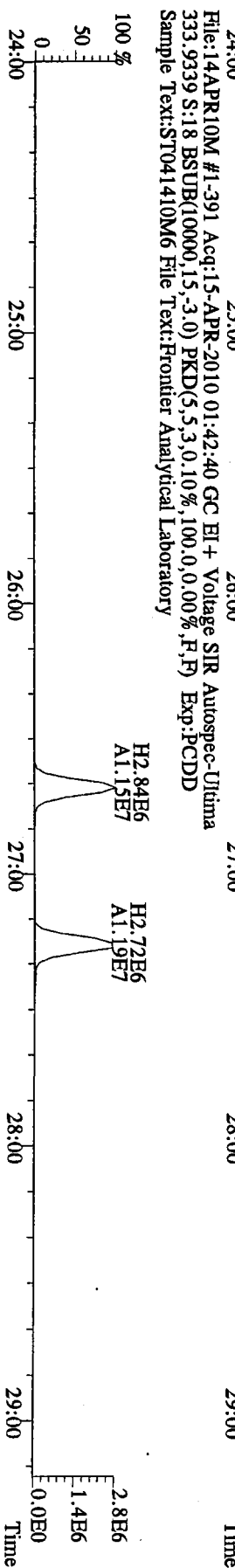
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Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



File:14APR10M #1-391 Acq:15-APR-2010 01:42:40 GC EI+ Voltage SIR Autospec-Ultima
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Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

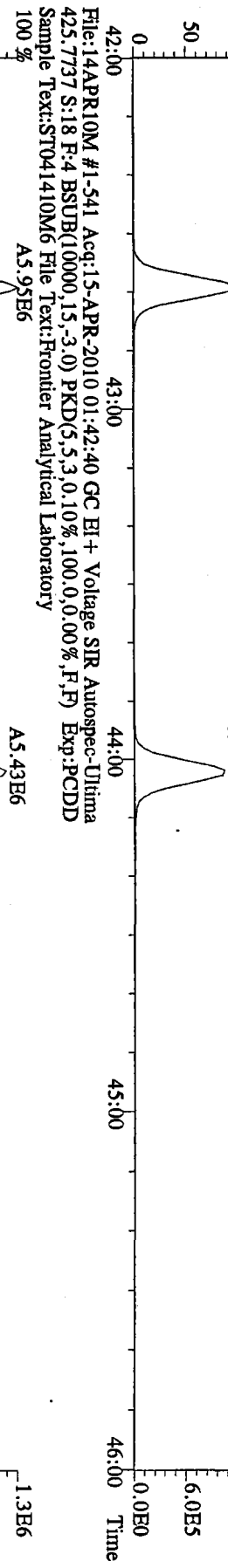


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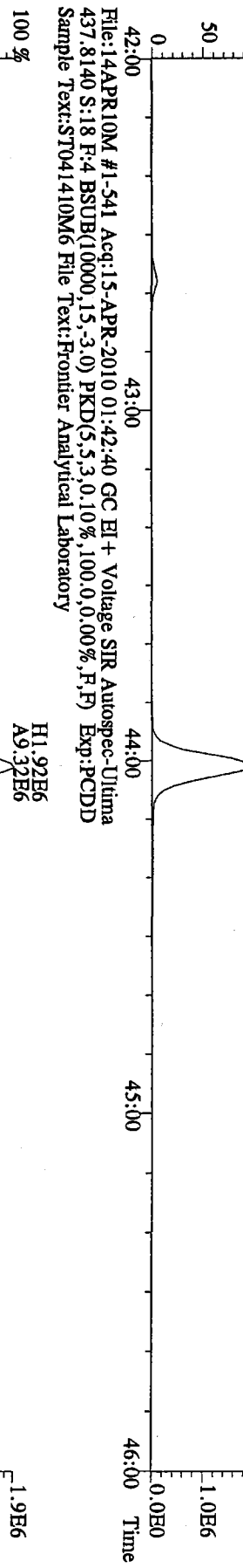


000263 of 000278

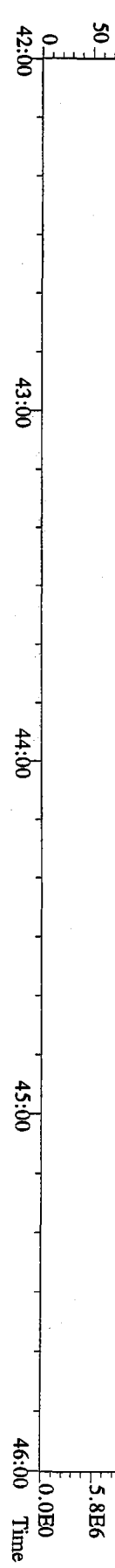
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 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



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 435.8169 S:18 F:4 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

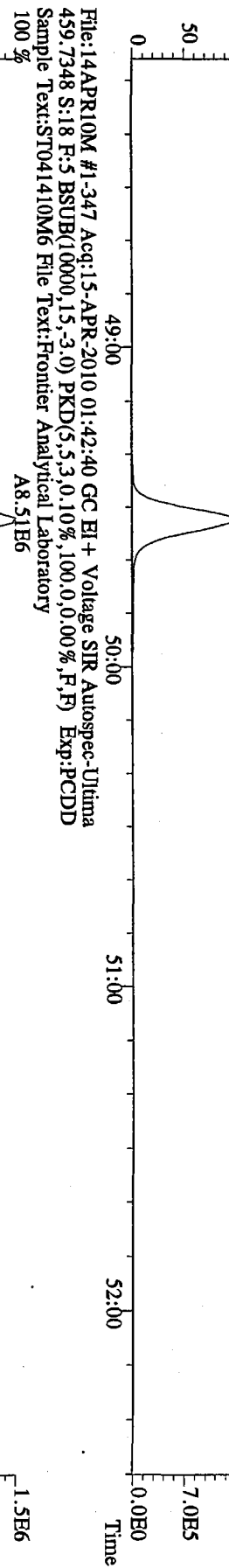


File:14APR10M #1-541 Acq:15-APR-2010 01:42:40 GC EI + Voltage SIR Autospec-Ultima
 430.9728 S:18 F:4 Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

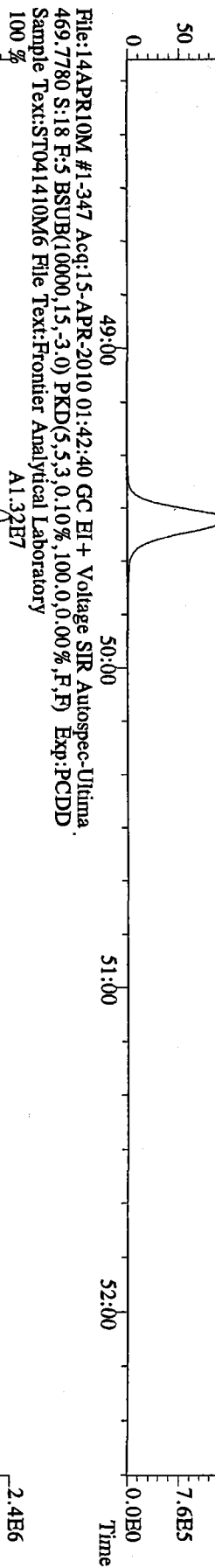


50000 : 00000

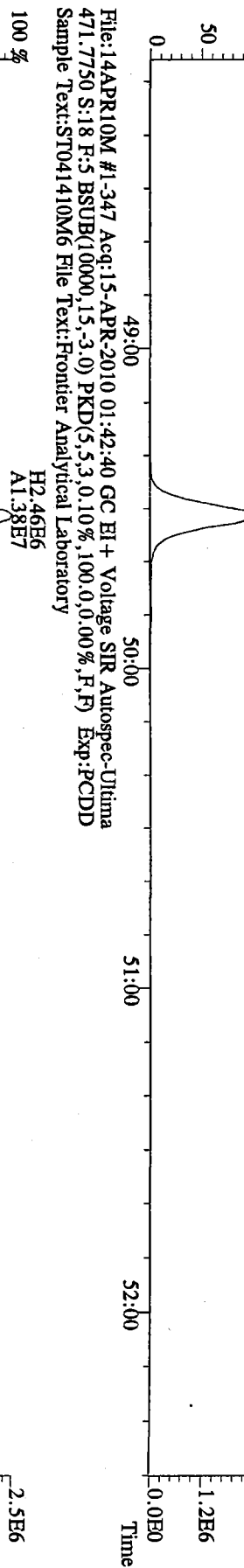
File:14APR10M #1-347 Acq:15-APR-2010 01:42:40 GC EI + Voltage SIR Autospec-Ultima
 457.7377 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



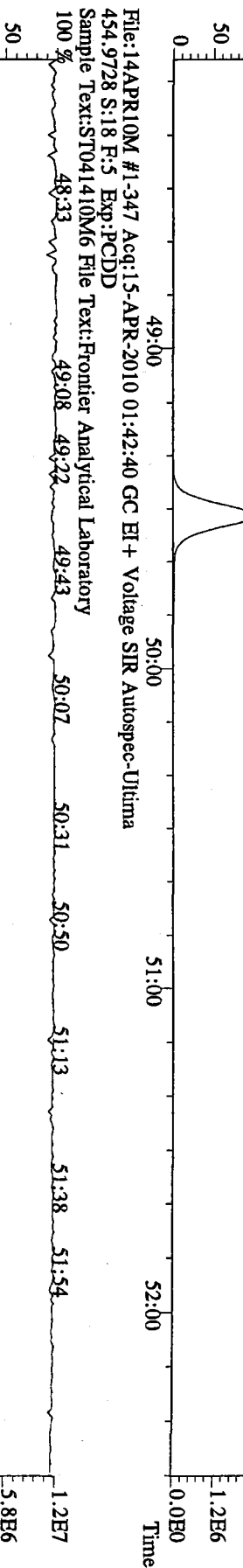
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 459.7348 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:15-APR-2010 01:42:40 GC EI + Voltage SIR Autospec-Ultima
 469.7780 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



File:14APR10M #1-347 Acq:15-APR-2010 01:42:40 GC EI + Voltage SIR Autospec-Ultima
 471.7750 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



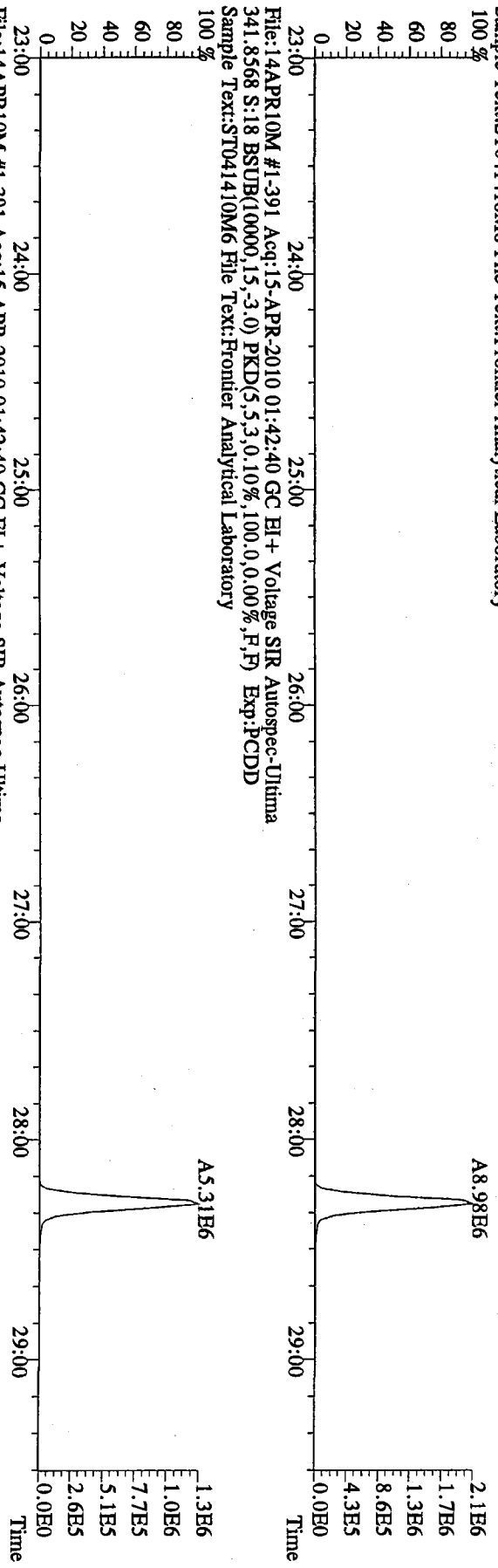
File:14APR10M #1-347 Acq:15-APR-2010 01:42:40 GC EI + Voltage SIR Autospec-Ultima
 454.9728 S:18 F:5 Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



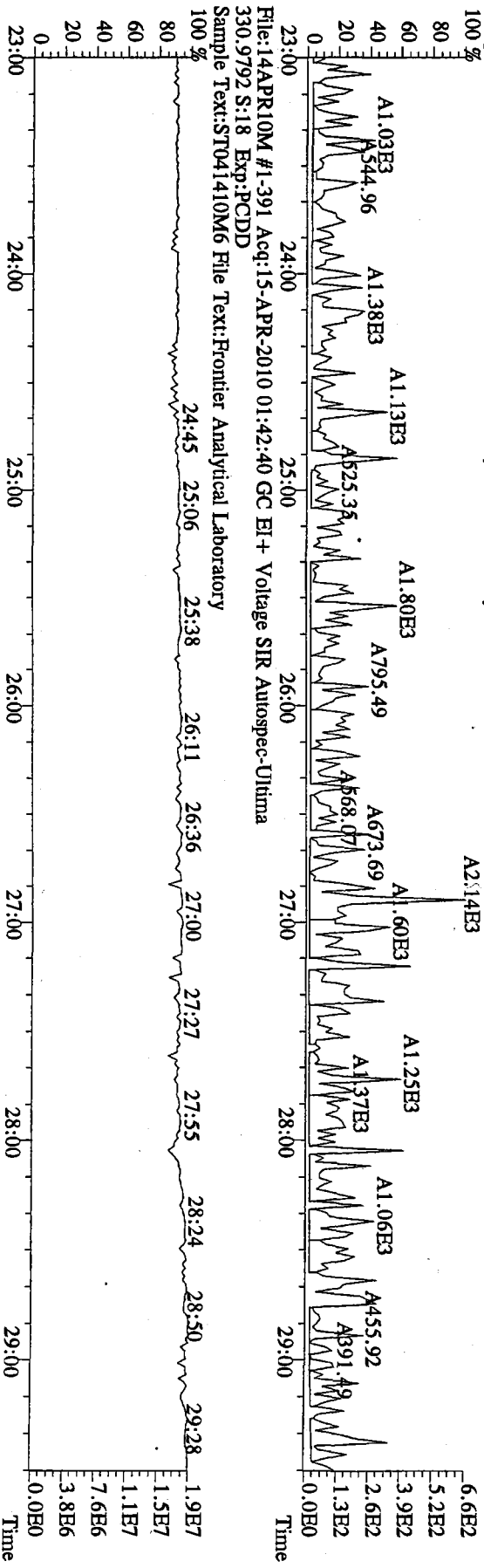
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 454.9728 S:18 F:5 Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

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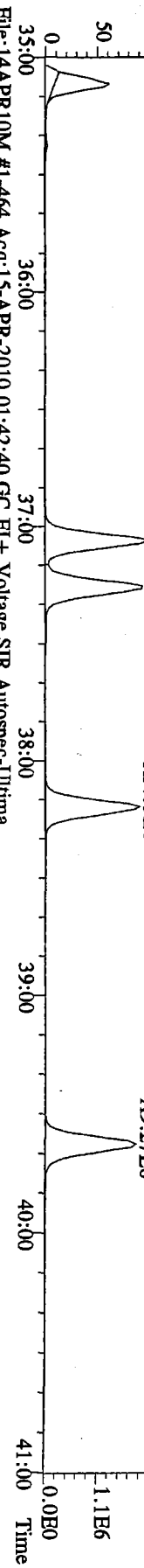
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 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



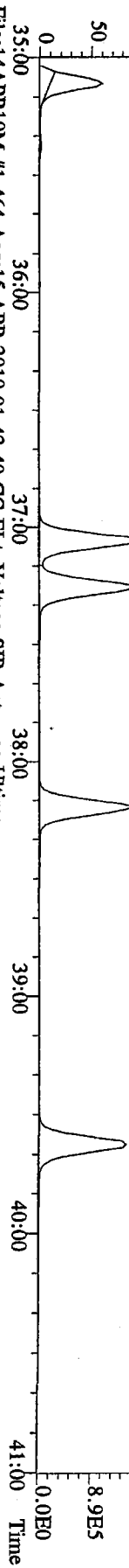
File:14APR10M #1-391 Acq:15-APR-2010 01:42:40 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:18 BSUB(10000,15,-3.0) PKD(5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



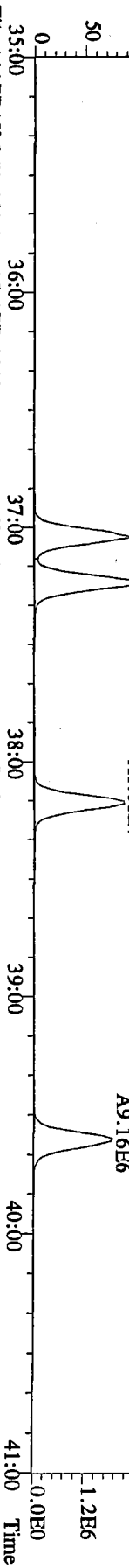
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 373.8207 S:1.8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



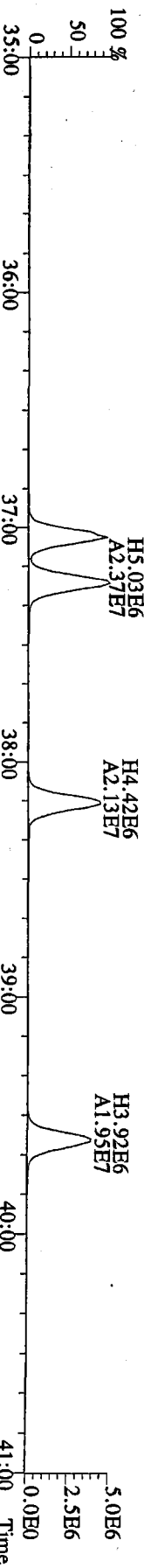
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 375.8178 S:1.8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



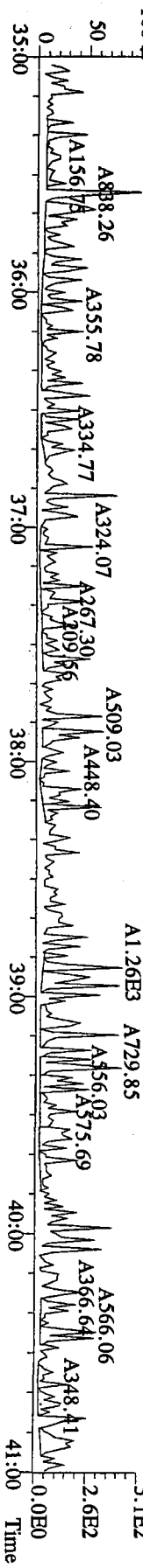
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 383.8639 S:1.8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



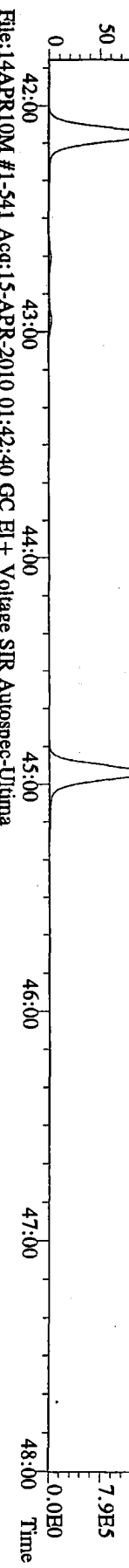
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 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



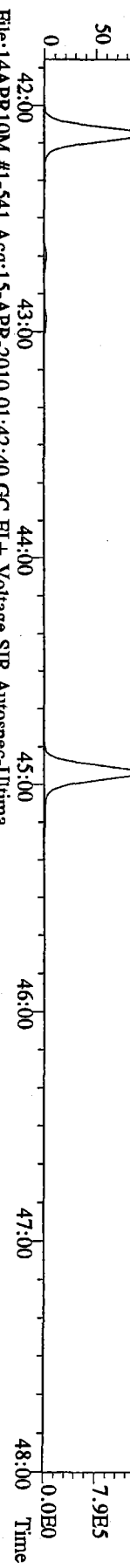
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 445.7555 S:1.8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



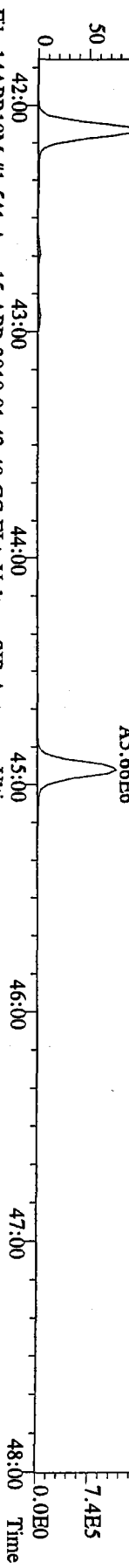
File:14APR10M #1-541 Acq:15-APR-2010 01:42:40 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory
 100 % A7.58E6



File:14APR10M #1-541 Acq:15-APR-2010 01:42:40 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:18 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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 100 % A7.39E6

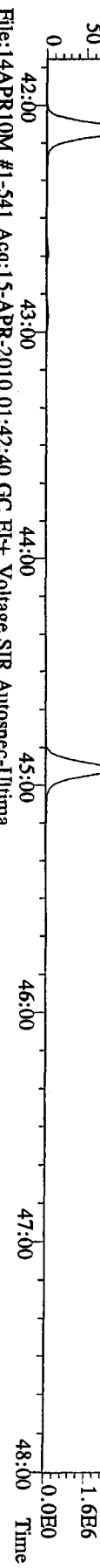


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 417.8253 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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 100 % A6.88E6

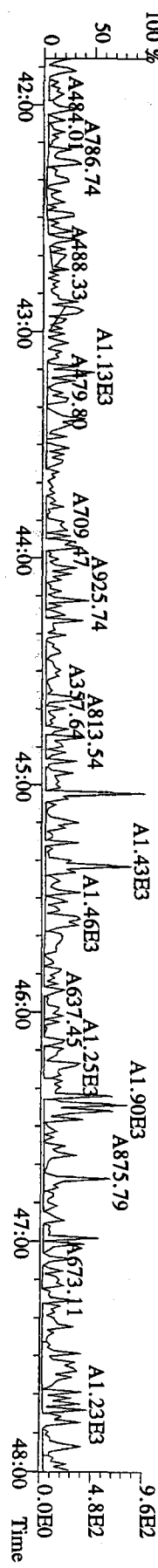


File:14APR10M #1-541 Acq:15-APR-2010 01:42:40 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

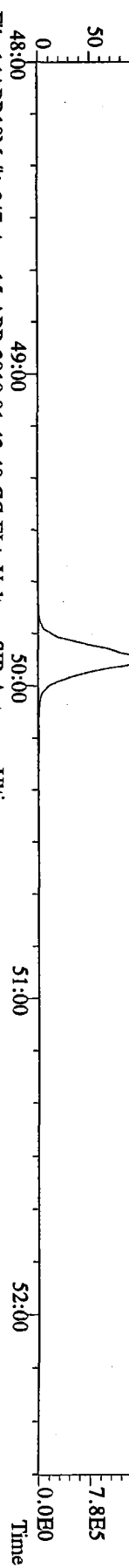
H3.15E6
 A1.47E7
 H2.50E6
 A1.22E7



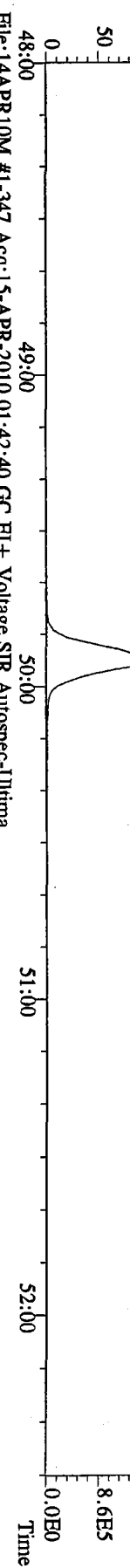
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 479.7165 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



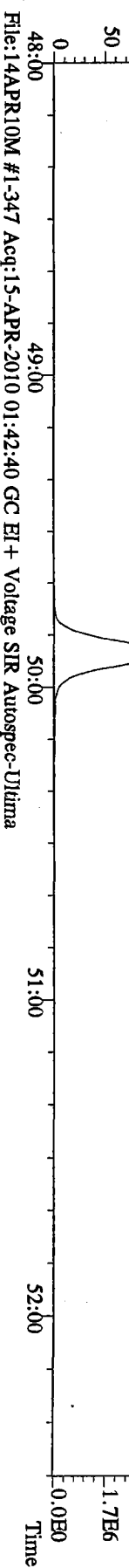
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441.7428 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



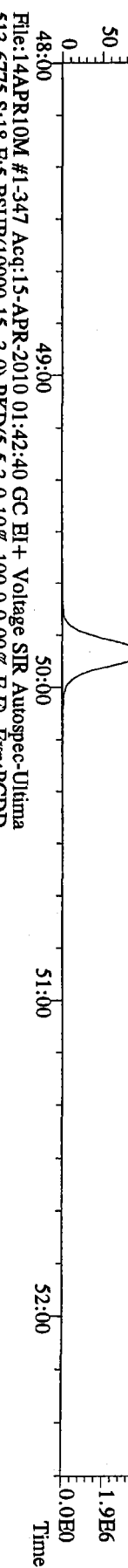
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Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



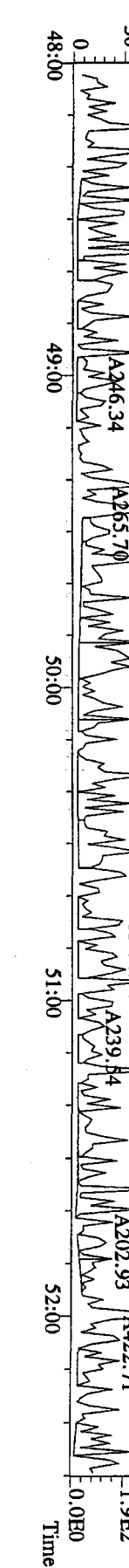
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Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

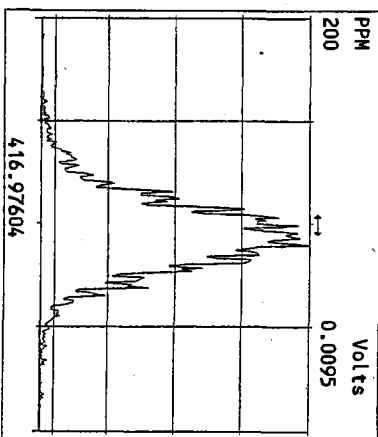
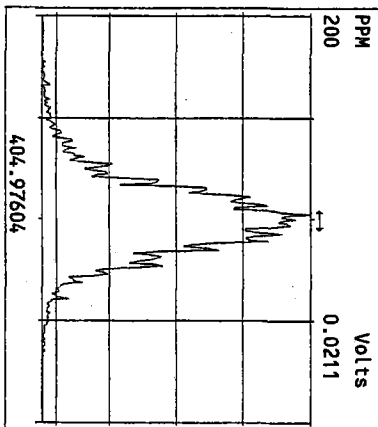
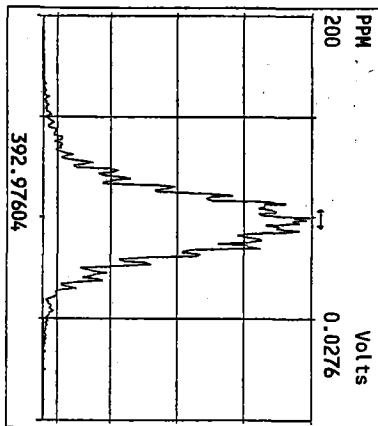
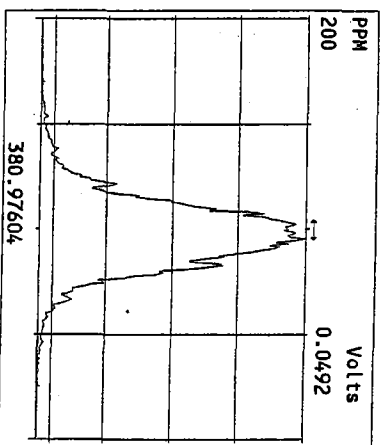
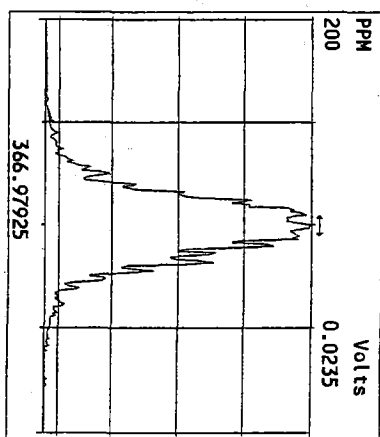
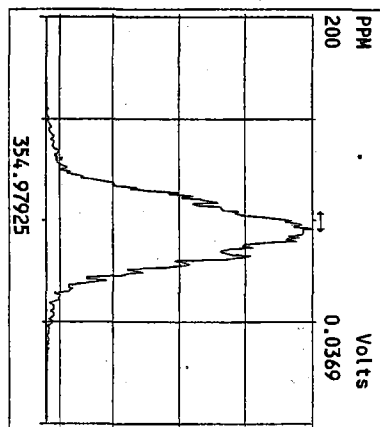
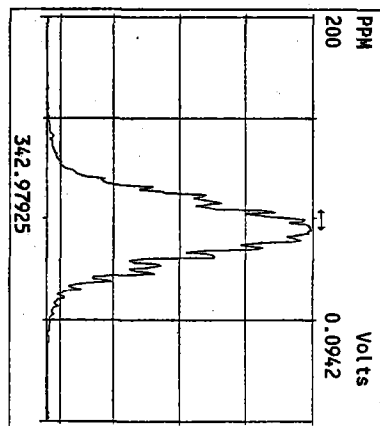
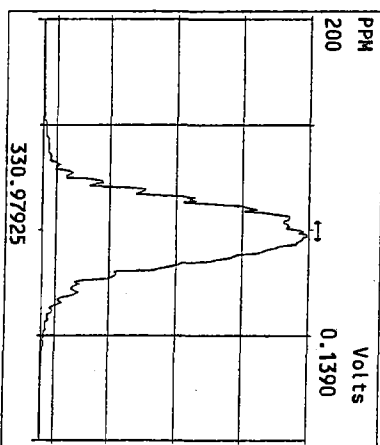
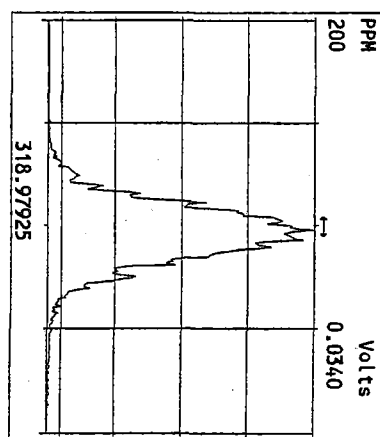
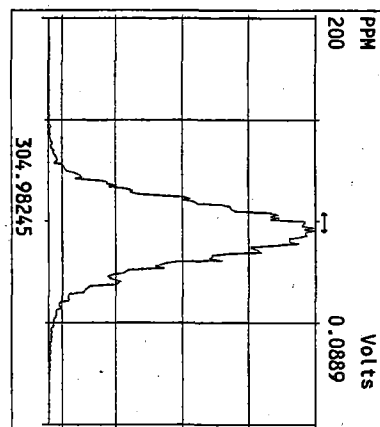
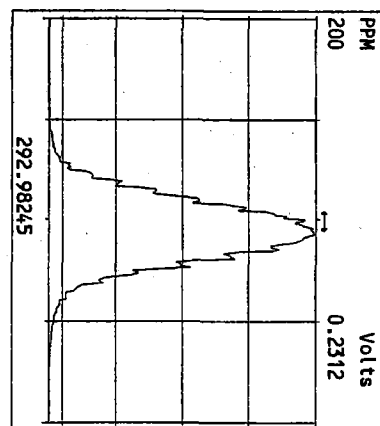


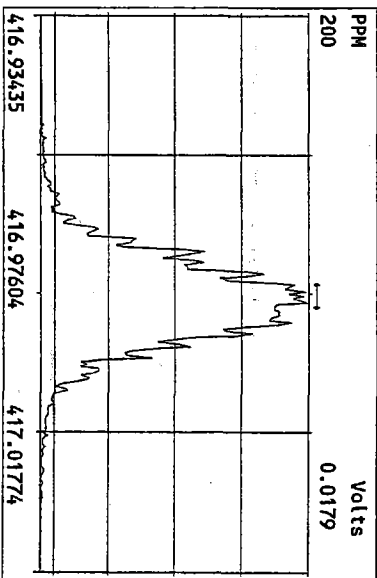
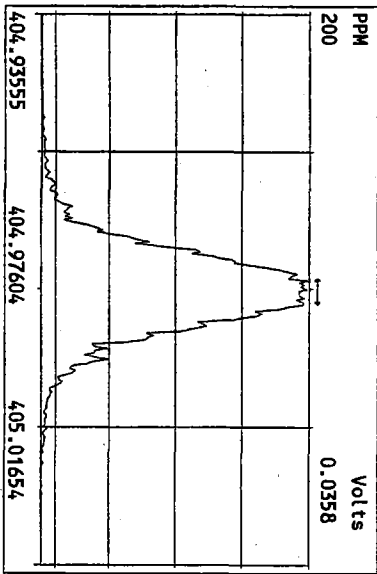
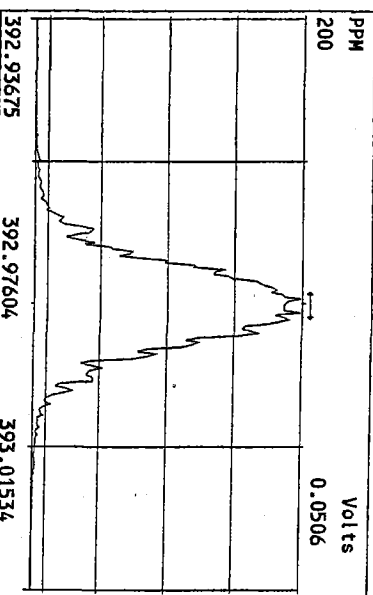
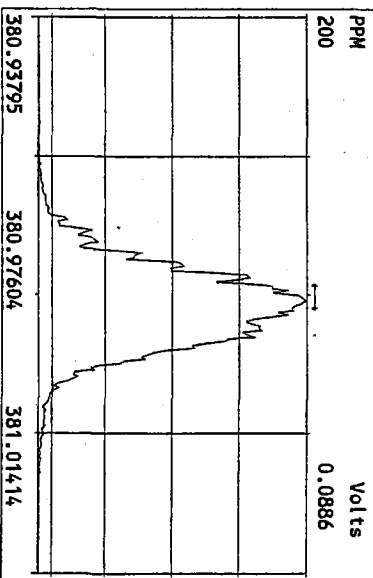
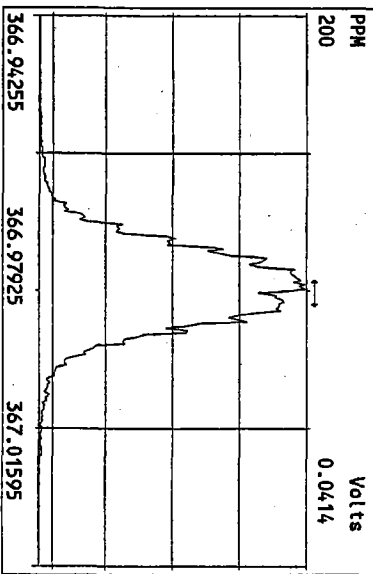
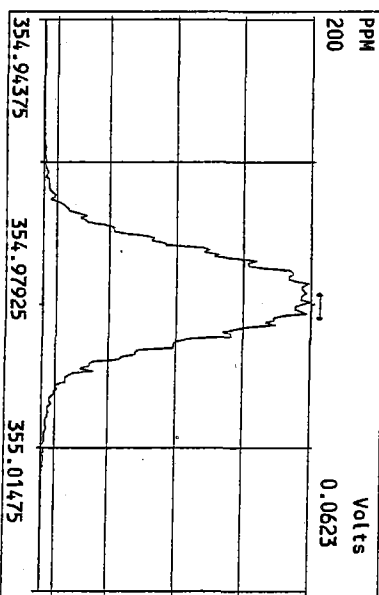
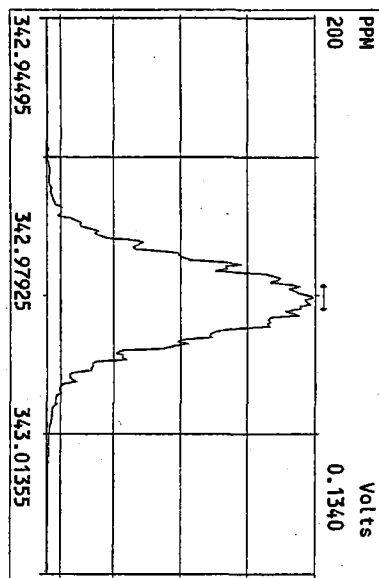
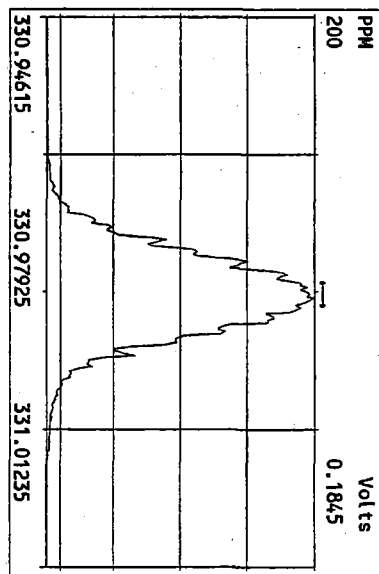
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Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory

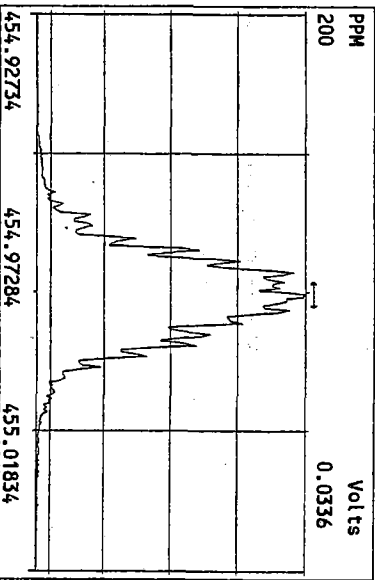
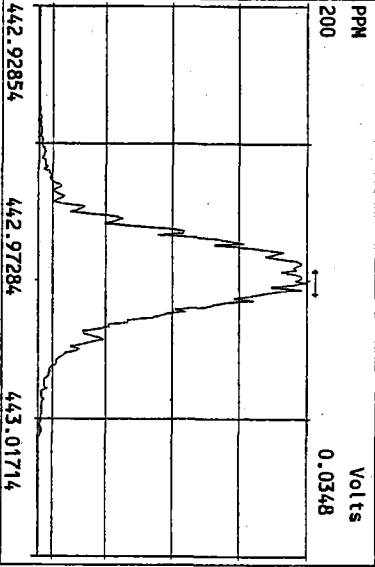
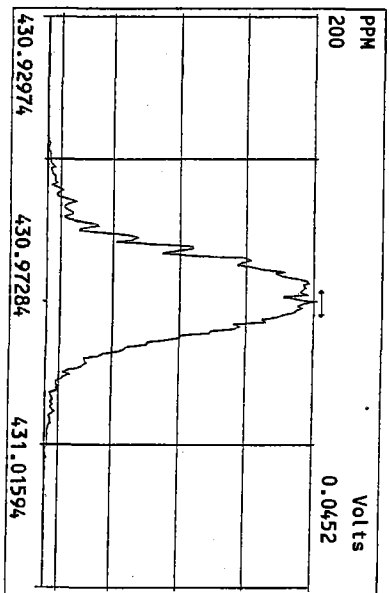
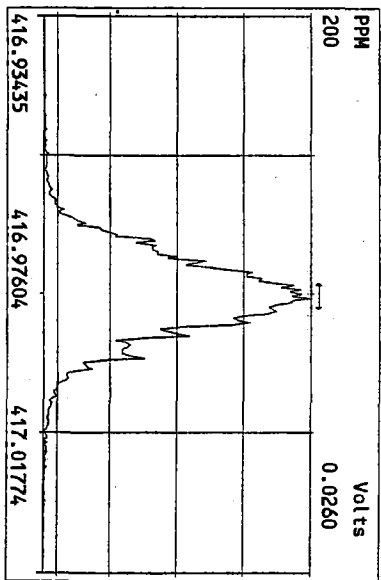
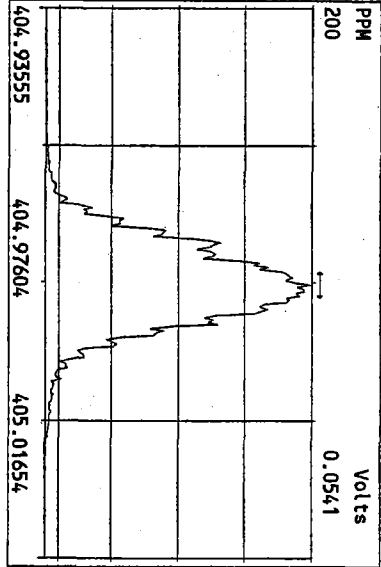
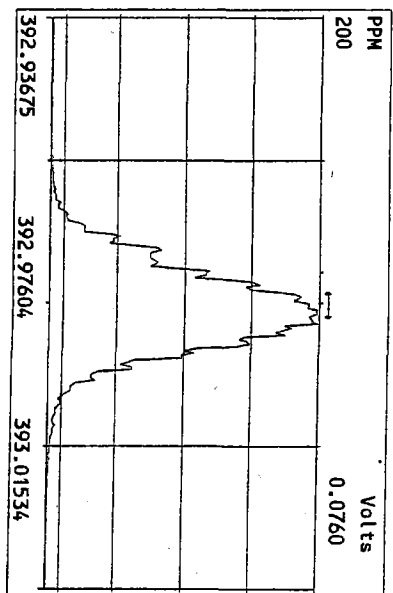
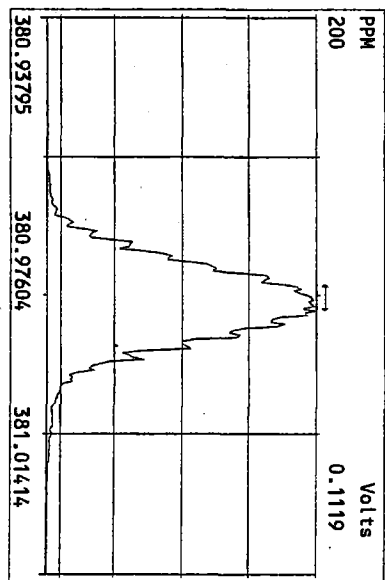
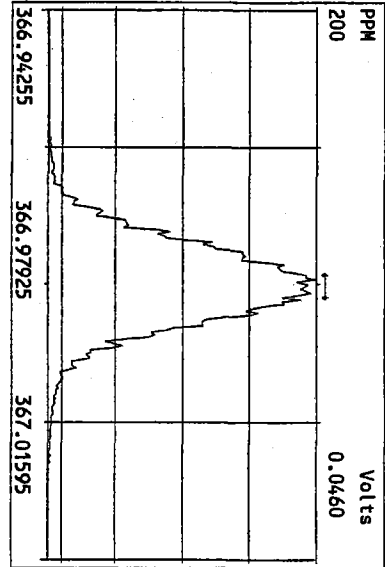


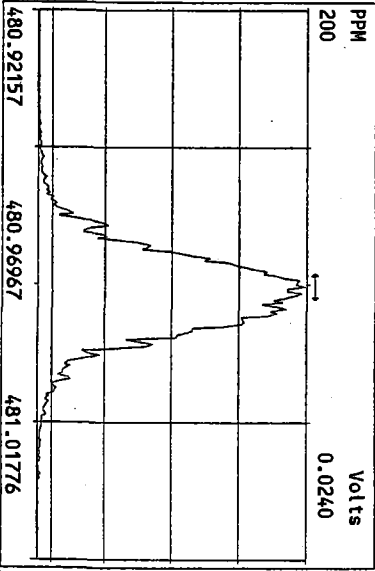
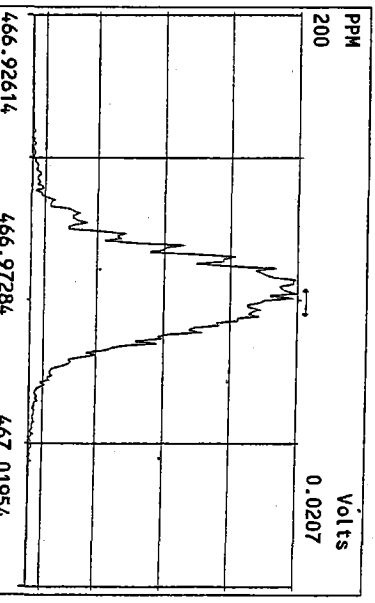
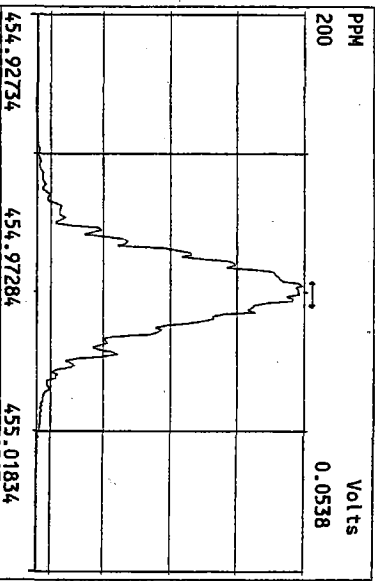
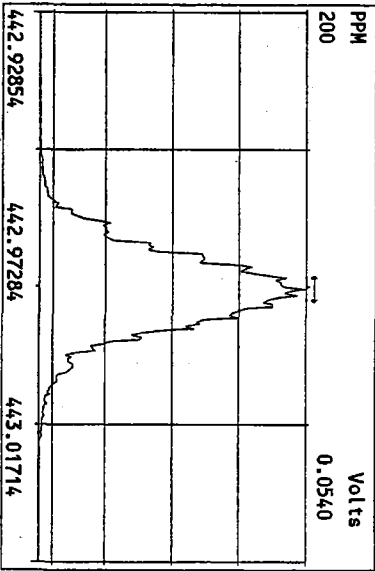
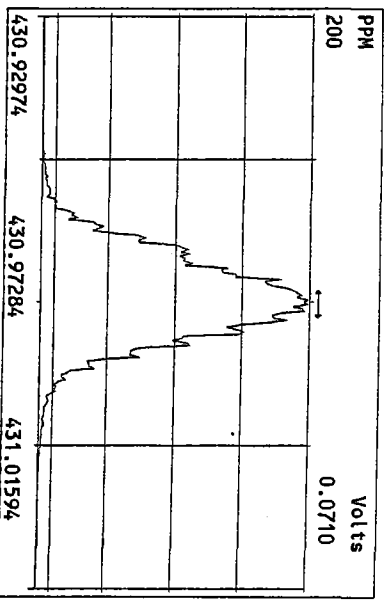
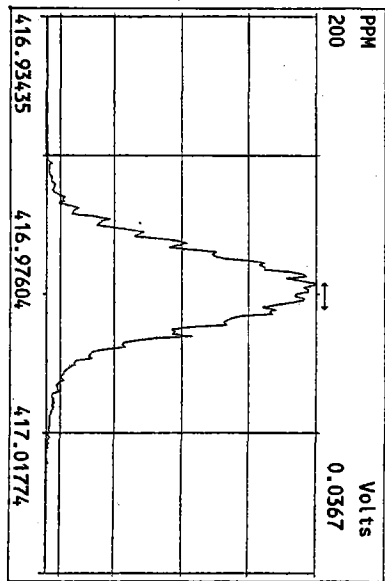
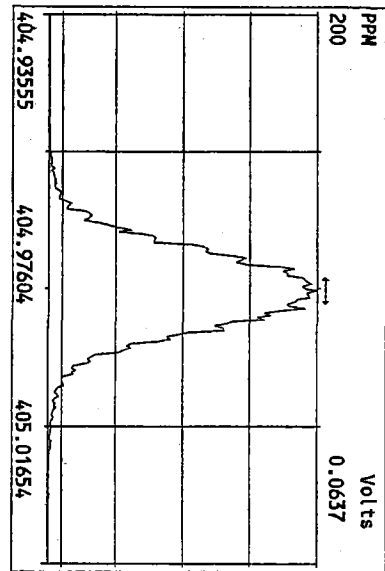
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513.6775 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST041410M6 File Text:Frontier Analytical Laboratory



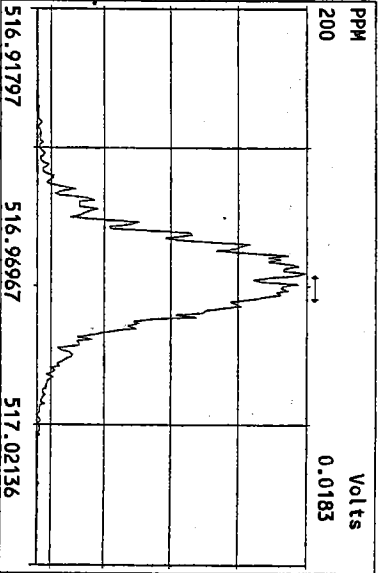
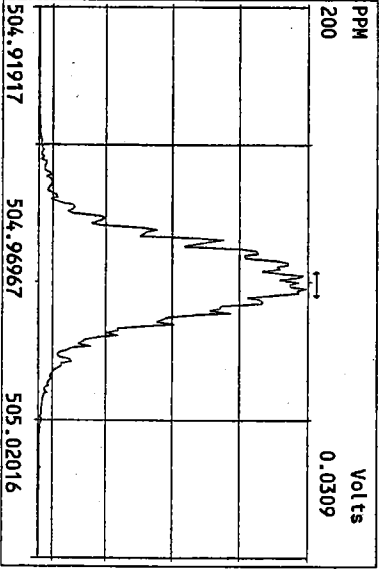
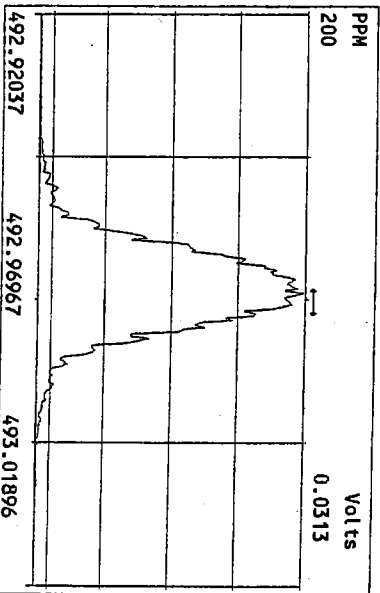
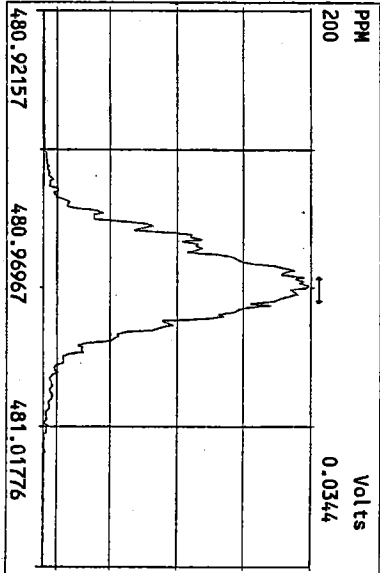
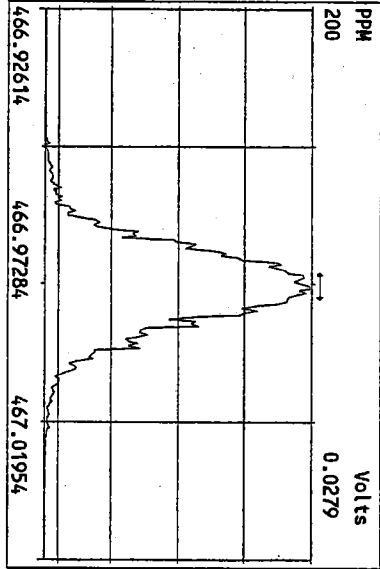
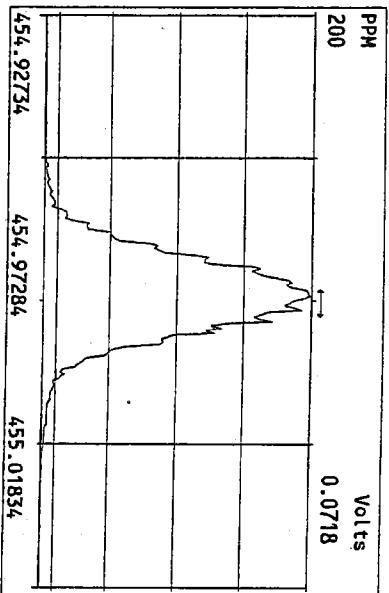
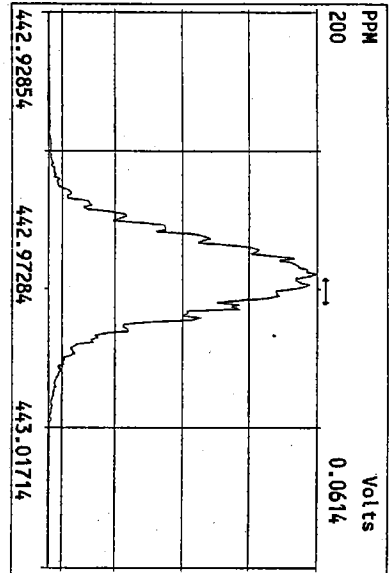
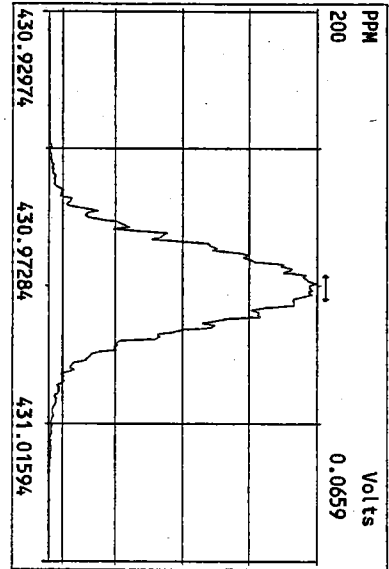








Peak Locate Examination: 15-APR-2010:02:48 File: 14APR10M_RES_CHECK
Experiment: PCD0 Function: 5 Reference: PFK





Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 16, 2010

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

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QP69

Dear Ms. Massingale:

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

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

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

Sincerely,

ANALYTICAL RESOURCES, INC.

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

Enclosures

cc: eFile QP69

Chain of Custody
Documentation

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.



Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: Lora Lakes Apt

COC No(s): _____ (NA)

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

Assigned ARI Job No: QP09

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)..... 2.3

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

Cooler Accepted by: M11 Date: 3/25/10 Time: 1230

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 3/11/10

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

Samples Logged by: MM Date: 3/25/10 Time: 1430

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

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| | | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

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

Case Narrative

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.



Case Narrative

Client: Floyd Snider
Project: Lora Lake Apartments, POS-LLA
Matrix: Sediment
ARI Job No.: QP69

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples and a trip blank on March 25, 2010 under ARI job QP69. The cooler temperature measured by IR thermometer following ARI SOP was 2.3°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Volatiles by SW8260C SIM

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

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

The surrogate percent recoveries were within control limits.

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

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

Sample preservation was confirmed within limits after analysis.

The trip blank was noted by the analyst to have pea bubbles (2-4mm) which is acceptable.

NW-TPHDx with Acid Silica cleanups

The samples and associated 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 was run in duplicate with percent recovery was outside control limits for the LCSD and a high but acceptable RPD. Because the LCSD also had a low surrogate recovery and the MS/MSD results were acceptable, the outlier was allowed as a sporadic failure during the extraction process.

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



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

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

Organic Data

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



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

Geotechnical Data

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

SURR SOLUTIONS

4/3/2010

| LABEL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|-------|---------|----------------------|-------------|---------|----------|
| A | 1706-2 | ABN | 100/150 | MEOH | 07/30/10 |
| B | 1633-3 | SIM PNA | 15/75 | MEOH | 08/12/10 |
| C | 1705-4 | SIM ABN | 25/37.5 | MEOH | 03/08/11 |
| D | 1689-2 | LOW PCB | 0.2 | ACETONE | 12/29/10 |
| E | 1661-2 | HERB | 62.5 | MEOH | 10/02/10 |
| F | 1683-3 | PCP | 12.5 | ACETONE | 12/09/10 |
| G | 1707-2 | 1,4DIOXANE | 100 | MEOH | 03/19/11 |
| H | 1723-2 | OP-PEST | 25 | MEOH | 04/02/11 |
| I | 1634-1 | LOW S. PNA | 1.5 | MEOH | 08/12/10 |
| J | 1681-2 | TBT-PORE | 0.125 | MECL2 | 12/01/10 |
| K | 1689-1 | MED PCB | 20 | ACETONE | 12/29/10 |
| L | 1681-1 | TBT | 2.5 | MECL2 | 12/01/10 |
| M | 1682-1 | EPH | 1500 | MECL2 | 09/17/10 |
| N | 1689-3 | PCB | 2 | ACETONE | 12/29/10 |
| O | 1699-1 | TPH | 450 | MECL2 | 07/02/10 |
| P | 1707-4 | HCID | 2250 | MECL2 | 07/02/10 |
| Q | 1620-2 | EDB | 1 | MEOH | 06/22/10 |
| R | 1615-1 | RESIN ACID | 250 | ACETONE | 06/17/10 |
| S* | 1568-5 | PBDE | .25 | MEOH | 01/13/11 |
| T | 1674-2 | ALKYL PNA | 10 | MEOH | 07/30/10 |
| U | 1633-1 | CONGENER | 2.5 | ACETONE | 08/11/10 |
| V | | | | | |
| | | *reverified solution | | | |
| | | #project specific | | | |
| Y | | | | | |
| Z | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

LCS SOLUTIONS

4/3/2010

| LABL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|------|---------|--------------|-------------|---------|----------|
| 1 | 1716-1 | PCB 1660 | 20 | ACETONE | 03/30/11 |
| 2# | 1472-3 | BCOC PEST | 10 | ACETONE | NA |
| 3 | 1705-3 | PEST | 02/04/20 | ACETONE | 03/08/11 |
| 4 | 1667-1 | LOW PEST | 0.2/0.4/2 | ACETONE | 06/26/10 |
| 5 | 1677-1 | EPH | 1500 | MECL2 | 11/12/10 |
| 6 | 1702-2 | PCP | 12.5/125 | ACETONE | 02/18/11 |
| 7 | 1705-1 | ABN | 100 | ACETONE | 07/01/10 |
| 8 | 1681-4 | TBT | 2.5 | MECL2 | 12/01/10 |
| 9 | 1682-2 | PORE TBT | .125/.25 | MECL2 | 12/01/10 |
| 10 | 1698-2 | ABN ACID | 100/200 | MECL2 | 07/14/10 |
| 11 | 1642-2 | TPHD | 15000 | ACETONE | 09/07/10 |
| 12 | 1698-1 | ABN BASE | 200 | MEOH | 07/24/10 |
| 13 | 1613-1 | LOW PCB | 2 | ACETONE | 06/08/10 |
| 14* | 1547-1 | LOW ABN ACID | 10/20 | MEOH | 04/10/10 |
| 15 | 1716-2 | SIM PNA | 15/75 | MEOH | 03/30/11 |
| 16 | 1707-1 | DIOXANE | 100 | MEOH | 11/05/10 |
| 17 | 1644-1 | 1248 PCB | 10 | ACETONE | 09/10/10 |
| 18* | 1591-4 | LOW SIM PNA | 1.5 | ACETONE | 08/28/10 |
| 19 | 1685-3 | AK103 | 7500 | ACETONE | 09/03/10 |
| 20 | 1682-4 | PNA | 100 | ACETONE | 12/04/10 |
| 21 | 1593-3 | SKY/BHT | 100 | MEOH | 03/31/10 |
| 22 | 1702-4 | HERB | 12.5/12500 | MEOH | 04/17/10 |
| 23 | 1706-1 | LW ABN BASE | 20 | MEOH | 03/08/11 |
| 24 | 1696-1 | LOW ABN | 10 | ACETONE | 01/13/11 |
| 25# | 1481-1 | DIPHENYL | 100 | MEOH | NA |
| 26 | 1723-3 | OP-PEST | 25 | MEOH | 11/20/10 |
| 27 | 1668-3 | STEROLS | 200 | MEOH | 10/30/10 |
| 28# | 1684-1 | ADD. PEST | 4 | ACETONE | 03/25/10 |
| 29# | 1496-3 | DECANES | 100 | MEOH | NA |
| 30 | 1620-1 | EDB/DBCP | 0.2 | MEOH | 06/22/10 |

LCS SOLUTIONS

4/3/2010

| | | | | | |
|-----------------------------|--------|-------------|--------|---------|----------|
| 31 | 1707-3 | TERPINEOL | 100 | MEOH | 03/19/11 |
| 32 | 1619-3 | GUAIACOL | 50-200 | ACETONE | 04/30/10 |
| 33 | 1639-3 | RETENE | 100 | MEOH | 09/03/10 |
| 34 | 1633-1 | CONGENERS | 2.5 | ACETONE | 08/11/10 |
| 35 | 1674-3 | ALKYL PNA A | 10 | MEOH | 10/28/10 |
| 36 | 1601-3 | ALKYL PNA B | 10 | MEOH | 05/13/10 |
| 50 | 1617-1 | FULL RESIN | 250 | ACETONE | 06/17/10 |
| 51 | 1696-3 | DDTS | 2.5 | ACETONE | 06/03/10 |
| 52 | 1613-5 | 1232 PCB | 20 | ACETONE | 06/16/10 |
| 53 | 1703-3 | DALAPON | 50 | MEOH | 09/11/10 |
| 54 | 1701-2 | PBDE | 0.5 | ACETONE | 02/10/11 |
| #=PROJECT SPECIFIC SOLUTION | | | | | |
| *=REVERIFIED SOLUTION | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



| Spike Recovery Control Limits for SIM VOA EPA Method SW-846-8260C ^(1,2) Effective 12/24/07 | |
|--|------------------------|
| Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip | |
| Sample Matrix: | Water |
| Purge Volume: | 10 mL |
| LCS Spike Recovery ⁽³⁾ | |
| Vinyl Chloride | 76 - 120 |
| 1,1-Dichloroethene | 79 - 126 |
| <i>cis</i> -1,2-Dichloroethene | 76 - 127 |
| Trichloroethene | 79 - 120 |
| Benzene | 75 - 121 |
| Tetrachloroethene | 75 - 123 |
| 1,1,2,2-Tetrachloroethane | 72 - 129 |
| Method Blank/LCS Surrogate Recovery | |
| d4-1,2-Dichloroethane | 80 - 133 |
| d8-Toluene | 80 - 121 |
| Sample Surrogate Recovery | |
| d4-1,2-Dichloroethane | 80 - 136 |
| d8-Toluene | 80 - 120 |

(1) Control limits calculated using historic data collected from 4/1/05 to 11/15/07

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

- a) ARI does not use control limits < 10
- b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

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



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

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

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

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
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.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.

Data Summary Package

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

SIM VOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69A

QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7709

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 19:30

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 125% |
| d8-Toluene | 103% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69B


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7710

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 20:50

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 118% |
| d8-Toluene | 103% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1032510GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QP69C


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7711

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 21:16

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 118% |
| d8-Toluene | 102% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB101032510GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QP69D

LIMS ID: 10-7712

Matrix: Water

Data Release Authorized: *AB*

Reported: 03/31/10

QC Report No: QP69-Floyd/Snider

Project: Lora Lake Apartment

POS-LLA

Date Sampled: 03/25/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/29/10 21:43

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 127% |
| d8-Toluene | 102% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB032510
Page 1 of 1 Trip Blank

Lab Sample ID: QP69E


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7713

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 15:03

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 122% |
| d8-Toluene | 103% |

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA

| <u>Client ID</u> | <u>DCE</u> | <u>TOL</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-032910 | 109% | 102% | 0 |
| LCS-032910 | 99.5% | 102% | 0 |
| LCSD-032910 | 105% | 101% | 0 |
| CB31A032510GRAB | 125% | 103% | 0 |
| CB31A032510GRAB-MS | 105% | 102% | 0 |
| CB31A032510GRAB-MSD | 107% | 102% | 0 |
| CB4857032510GRAB | 118% | 103% | 0 |
| CB1032510GRAB | 118% | 102% | 0 |
| CB101032510GRAB | 127% | 102% | 0 |
| TB032510 | 122% | 103% | 0 |

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (80-133) (80-136)
(TOL) = d8-Toluene (80-121) (80-120)

Prep Method: SW5030
Log Number Range: 10-7709 to 10-7713

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QP69A
LIMS ID: 10-7709
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/31/10

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA
Date Sampled: 03/25/10
Date Received: 03/25/10

Instrument/Analyst MS: NT7/PKC
MSD: NT7/PKC
Date Analyzed MS: 03/29/10 19:56
MSD: 03/29/10 20:23

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 | 1.20 | 1.00 | 120% | 1.22 | 1.00 | 122% | 1.7% |
| cis-1,2-Dichloroethene | < 0.020 U | 0.992 | 1.00 | 99.2% | 1.03 | 1.00 | 103% | 3.8% |
| trans-1,2-Dichloroethene | < 0.020 U | 1.00 | 1.00 | 100% | 1.04 | 1.00 | 104% | 3.9% |
| Trichloroethene | < 0.020 U | 1.06 | 1.00 | 106% | 1.05 | 1.00 | 105% | 0.9% |
| Tetrachloroethene | < 0.020 U | 1.12 | 1.00 | 112% | 1.11 | 1.00 | 111% | 0.9% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QP69A


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7709

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 19:56

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 105% |
| d8-Toluene | 102% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QP69A
LIMS ID: 10-7709
Matrix: Water
Data Release Authorized: 
Reported: 03/31/10

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA
Date Sampled: 03/25/10
Date Received: 03/25/10

Instrument/Analyst: NT7/PKC
Date Analyzed: 03/29/10 20:23

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 107% |
| d8-Toluene | 102% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-032910

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-032910

LIMS ID: 10-7709

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 03/31/10

QC Report No: QP69-Floyd/Snider

Project: Lora Lake Apartment

POS-LLA

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

LCS D: NT7/PKC

Date Analyzed LCS: 03/29/10 13:12

LCS D: 03/29/10 13:39

Sample Amount LCS: 10.0 mL

LCS D: 10.0 mL

Purge Volume LCS: 10.0 mL

LCS D: 10.0 mL

| Analyte | LCS | Spike | LCS | LCS D | Spike | LCS D | RPD |
|--------------------------|-------|-----------|----------|-------|-------------|----------|-------|
| | | Added-LCS | Recovery | | Added-LCS D | Recovery | |
| 1,2-Dichloroethane | 1.00 | 1.00 | 100% | 1.18 | 1.00 | 118% | 16.5% |
| cis-1,2-Dichloroethene | 0.880 | 1.00 | 88.0% | 1.04 | 1.00 | 104% | 16.7% |
| trans-1,2-Dichloroethene | 0.895 | 1.00 | 89.5% | 1.06 | 1.00 | 106% | 16.9% |
| Trichloroethene | 0.928 | 1.00 | 92.8% | 1.04 | 1.00 | 104% | 11.4% |
| Tetrachloroethene | 0.971 | 1.00 | 97.1% | 1.09 | 1.00 | 109% | 11.5% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCS D |
|-----------------------|-------|-------|
| d4-1,2-Dichloroethane | 99.5% | 105% |
| d8-Toluene | 102% | 101% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0330

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QP69
 Lab File ID: 03301005
 Date Analyzed: 03/29/10
 Instrument ID: NT7

Client: FLOYD/SNIDER
 Project: LORA LAKE APARTMENT
 Lab Sample ID: MB0330
 Time Analyzed: 1405
 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 | LCS0330 | LCS0330 | 03301003 | 1312 |
| 02 | LCSD0330 | LCSD0330 | 03301004 | 1339 |
| 03 | TB032510 | QP69E | 03301007 | 1503 |
| 04 | TB032810 | QQ22E | 03301008 | 1530 |
| 05 | CB31A032510G | QP69A | 03301017 | 1930 |
| 06 | CB31A032510G | QP69AMS | 03301018 | 1956 |
| 07 | CB31A032510G | QP69AMSD | 03301019 | 2023 |
| 08 | CB4857032510 | QP69B | 03301020 | 2050 |
| 09 | CB1032510GRA | QP69C | 03301021 | 2116 |
| 10 | CB101032510G | QP69D | 03301022 | 2143 |
| 11 | CB31A032910G | QQ22A | 03301023 | 2209 |
| 12 | CB4857032910 | QQ22B | 03301024 | 2236 |
| 13 | CB1032910GRA | QQ22C | 03301025 | 2303 |
| 14 | CB100032910G | QQ22D | 03301026 | 2329 |
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-032910

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-032910


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7709

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/31/10

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 14:05

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 109% |
| d8-Toluene | 102% |

TPHD ANALYSIS

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Matrix: Water

QC Report No: QP69-Floyd/Snider

Project: Lora Lake Apartment

POS-LLA

Data Release Authorized: 

Reported: 04/06/10

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|---|-----------------|-------------------|-------------|---|---------------------|----------------------------------|
| MB-032910 10-7709 | Method Blank HC ID: --- | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 83.2% |
| QP69A 10-7709 | CB31A032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.91 78.8% |
| QP69B 10-7710 | CB4857032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.61 79.6% |
| QP69C 10-7711 | CB1032510GRAB HC ID: --- | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 81.6% |
| QP69D 10-7712 | CB101032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.57 75.8% |

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MB-032910 | 83.2% | 0 |
| LCS-032910 | 78.8% | 0 |
| LCSD-032910 | 49.8%* | 1 |
| CB31A032510GRAB | 78.8% | 0 |
| CB31A032510GRAB MS | 72.2% | 0 |
| CB31A032510GRAB MSD | 78.1% | 0 |
| CB4857032510GRAB | 79.6% | 0 |
| CB1032510GRAB | 81.6% | 0 |
| CB101032510GRAB | 75.8% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(51-120)

(41-121)

Prep Method: SW3510C
Log Number Range: 10-7709 to 10-7712

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

Sample ID: CB31A032510GRAB
 MS/MSD

Lab Sample ID: QP69A
 LIMS ID: 10-7709
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 04/06/10

QC Report No: QP69-Floyd/Snider
 Project: Lora Lake Apartment
 POS-LLA
 Date Sampled: 03/25/10
 Date Received: 03/25/10

Date Extracted MS/MSD: 03/29/10

Sample Amount MS: 500 mL
 MSD: 500 mL

Date Analyzed MS: 04/01/10 17:50
 MSD: 04/01/10 18:15

Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL

Instrument/Analyst MS: FID/MS
 MSD: FID/MS

Dilution Factor MS: 1.00
 MSD: 1.00

| Range | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------|--------|------|----------------|-------------|------|-----------------|--------------|------|
| Diesel | < 0.25 | 2.05 | 3.00 | 68.3% | 2.19 | 3.00 | 73.0% | 6.6% |

TPHD Surrogate Recovery

| | MS | MSD |
|-------------|-------|-------|
| o-Terphenyl | 72.2% | 78.1% |

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-032910
LCS/LCSD

Lab Sample ID: LCS-032910
LIMS ID: 10-7709
Matrix: Water
Data Release Authorized: *B*
Reported: 04/06/10

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA
Date Sampled: 03/25/10
Date Received: 03/25/10

Date Extracted LCS/LCSD: 03/29/10

Sample Amount LCS: 500 mL
LCSD: 500 mL

Date Analyzed LCS: 04/01/10 16:10
LCSD: 04/01/10 16:35

Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL

Instrument/Analyst LCS: FID/MS
LCSD: FID/MS

Dilution Factor LCS: 1.00
LCSD: 1.00

| Range | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------|------|-----------------|--------------|------|------------------|---------------|-------|
| Diesel | 2.06 | 3.00 | 68.7% | 1.43 | 3.00 | 47.7% | 36.1% |

TPHD Surrogate Recovery

| | LCS | LCSD |
|-------------|-------|-------|
| o-Terphenyl | 78.8% | 49.8% |

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QP98MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER
 SDG No.: QP69 Project No.: LLA
 Date Extracted: 03/29/10 Matrix: LIQUID
 Date Analyzed : 04/01/10 Instrument ID : FID4A
 Time Analyzed : 1545

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | QP98LCSW1 | QP98LCSW1 | 04/01/10 |
| 02 | QP98LCSDW1 | QP98LCSDW1 | 04/01/10 |
| 03 | CB31A032510G | QP69A | 04/01/10 |
| 04 | CB31A032510G | QP69AMS | 04/01/10 |
| 05 | CB31A032510G | QP69AMSD | 04/01/10 |
| 06 | CB4857032510 | QP69B | 04/01/10 |
| 07 | CB1032510GRA | QP69C | 04/01/10 |
| 08 | CB101032510G | QP69D | 04/01/10 |

Laboratory Data Package

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

SIM Volatile Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA

| <u>Client ID</u> | <u>DCE</u> | <u>TOL</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-032910 | 109% | 102% | 0 |
| LCS-032910 | 99.5% | 102% | 0 |
| LCSD-032910 | 105% | 101% | 0 |
| CB31A032510GRAB | 125% | 103% | 0 |
| CB31A032510GRAB-MS | 105% | 102% | 0 |
| CB31A032510GRAB-MSD | 107% | 102% | 0 |
| CB4857032510GRAB | 118% | 103% | 0 |
| CB1032510GRAB | 118% | 102% | 0 |
| CB101032510GRAB | 127% | 102% | 0 |
| TB032510 | 122% | 103% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|-------------------------------|----------------------|------------------|
| (DCE) = d4-1,2-Dichloroethane | (80-133) | (80-136) |
| (TOL) = d8-Toluene | (80-121) | (80-120) |

Prep Method: SW5030
Log Number Range: 10-7709 to 10-7713

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QP69A
LIMS ID: 10-7709
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/31/10

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA
Date Sampled: 03/25/10
Date Received: 03/25/10

Instrument/Analyst MS: NT7/PKC
MSD: NT7/PKC
Date Analyzed MS: 03/29/10 19:56
MSD: 03/29/10 20:23

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 | 1.20 | 1.00 | 120% | 1.22 | 1.00 | 122% | 1.7% |
| cis-1,2-Dichloroethene | < 0.020 U | 0.992 | 1.00 | 99.2% | 1.03 | 1.00 | 103% | 3.8% |
| trans-1,2-Dichloroethene | < 0.020 U | 1.00 | 1.00 | 100% | 1.04 | 1.00 | 104% | 3.9% |
| Trichloroethene | < 0.020 U | 1.06 | 1.00 | 106% | 1.05 | 1.00 | 105% | 0.9% |
| Tetrachloroethene | < 0.020 U | 1.12 | 1.00 | 112% | 1.11 | 1.00 | 111% | 0.9% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-032910
 Page 1 of 1 LAB CONTROL SAMPLE

Lab Sample ID: LCS-032910 QC Report No: QP69-Floyd/Snider
 LIMS ID: 10-7709 Project: Lora Lake Apartment
 Matrix: Water POS-LLA
 Data Release Authorized: *[Signature]* Date Sampled: NA
 Reported: 03/31/10 Date Received: NA

Instrument/Analyst LCS: NT7/PKC Sample Amount LCS: 10.0 mL
 LCSD: NT7/PKC LCSD: 10.0 mL
 Date Analyzed LCS: 03/29/10 13:12 Purge Volume LCS: 10.0 mL
 LCSD: 03/29/10 13:39 LCSD: 10.0 mL

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------------------|-------|-----------------|--------------|------|------------------|---------------|-------|
| 1,2-Dichloroethane | 1.00 | 1.00 | 100% | 1.18 | 1.00 | 118% | 16.5% |
| cis-1,2-Dichloroethene | 0.880 | 1.00 | 88.0% | 1.04 | 1.00 | 104% | 16.7% |
| trans-1,2-Dichloroethene | 0.895 | 1.00 | 89.5% | 1.06 | 1.00 | 106% | 16.9% |
| Trichloroethene | 0.928 | 1.00 | 92.8% | 1.04 | 1.00 | 104% | 11.4% |
| Tetrachloroethene | 0.971 | 1.00 | 97.1% | 1.09 | 1.00 | 109% | 11.5% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|------|
| d4-1,2-Dichloroethane | 99.5% | 105% |
| d8-Toluene | 102% | 101% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0330

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QP69
 Lab File ID: 03301005
 Date Analyzed: 03/29/10
 Instrument ID: NT7

Client: FLOYD/SNIDER
 Project: LORA LAKE APARTMENT
 Lab Sample ID: MB0330
 Time Analyzed: 1405
 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 | LCS0330 | LCS0330 | 03301003 | 1312 |
| 02 | LCSD0330 | LCSD0330 | 03301004 | 1339 |
| 03 | TB032510 | QP69E | 03301007 | 1503 |
| 04 | TB032810 | QQ22E | 03301008 | 1530 |
| 05 | CB31A032510G | QP69A | 03301017 | 1930 |
| 06 | CB31A032510G | QP69AMS | 03301018 | 1956 |
| 07 | CB31A032510G | QP69AMSD | 03301019 | 2023 |
| 08 | CB4857032510 | QP69B | 03301020 | 2050 |
| 09 | CB1032510GRA | QP69C | 03301021 | 2116 |
| 10 | CB101032510G | QP69D | 03301022 | 2143 |
| 11 | CB31A032910G | QQ22A | 03301023 | 2209 |
| 12 | CB4857032910 | QQ22B | 03301024 | 2236 |
| 13 | CB1032910GRA | QQ22C | 03301025 | 2303 |
| 14 | CB100032910G | QQ22D | 03301026 | 2329 |
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

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

Lab Code: ARI Case No.: LORA LAKE APARTMENT SDG No.: QP69

Lab File ID: 03181001 BFB Injection Date: 03/18/10

Instrument ID: NT7 BFB Injection Time: 0135

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 8.0 - 40.0% of mass 95 | 15.0 |
| 75 | 30.0 - 66.0% of mass 95 | 41.8 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 0.2 (0.3)1 |
| 174 | 50.0 - 101.0% of mass 95 | 69.6 |
| 175 | 4.0 - 9.0% of mass 174 | 4.9 (7.1)1 |
| 176 | 93.0 - 101.0% of mass 174 | 68.7 (98.7)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 (6.4)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 | 100 PPT | 01000318 | 03181006 | 03/18/10 | 0407 |
| 02 | 20 PPT | 00200318 | 03181008 | 03/18/10 | 0501 |
| 03 | 4 PPB | 40000318 | 03181009 | 03/18/10 | 0527 |
| 04 | 2 PPB | 20000318 | 03181010 | 03/18/10 | 0554 |
| 05 | 1 PPB | 10000318 | 03181011 | 03/18/10 | 0621 |
| 06 | 500 PPT | 05000318 | 03181012 | 03/18/10 | 0647 |
| 07 | ICV0318 | ICV0318 | 03181013 | 03/18/10 | 0714 |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
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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 APARTMENT SDG No.: QP69

Lab File ID: 03301001 BFB Injection Date: 03/29/10

Instrument ID: NT7 BFB Injection Time: 1206

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 | 15.3 |
| 75 | 30.0 - 66.0% of mass 95 | 43.1 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 0.3 (0.4)1 |
| 174 | 50.0 - 101.0% of mass 95 | 69.6 |
| 175 | 4.0 - 9.0% of mass 174 | 5.0 (7.2)1 |
| 176 | 93.0 - 101.0% of mass 174 | 65.1 (93.5)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | CC0330 | CC0330 | 03301002 | 03/29/10 | 1245 |
| 02 | LCS0330 | LCS0330 | 03301003 | 03/29/10 | 1312 |
| 03 | LCSD0330 | LCSD0330 | 03301004 | 03/29/10 | 1339 |
| 04 | MB0330 | MB0330 | 03301005 | 03/29/10 | 1405 |
| 05 | TB032510 | QP69E | 03301007 | 03/29/10 | 1503 |
| 06 | TB032810 | QQ22E | 03301008 | 03/29/10 | 1530 |
| 07 | CB31A032510GRAB | QP69A | 03301017 | 03/29/10 | 1930 |
| 08 | CB31A032510GRAB | QP69AMS | 03301018 | 03/29/10 | 1956 |
| 09 | CB31A032510GRAB | QP69AMSD | 03301019 | 03/29/10 | 2023 |
| 10 | CB4857032510GRAB | QP69B | 03301020 | 03/29/10 | 2050 |
| 11 | CB1032510GRAB | QP69C | 03301021 | 03/29/10 | 2116 |
| 12 | CB101032510GRAB | QP69D | 03301022 | 03/29/10 | 2143 |
| 13 | CB31A032910GRAB | QQ22A | 03301023 | 03/29/10 | 2209 |
| 14 | CB4857032910GRAB | QQ22B | 03301024 | 03/29/10 | 2236 |
| 15 | CB1032910GRAB | QQ22C | 03301025 | 03/29/10 | 2303 |
| 16 | CB100032910GRAB | QQ22D | 03301026 | 03/29/10 | 2329 |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No: QP69

Project: LORA LAKE APARTMENT

Ical Midpoint ID: 03181012

Ical Date: 03/18/10

Instrument ID: NT7

Project Run Date: 03/29/10

| | IS1 (PFB) AREA # | RT # | IS2 (DFB) AREA # | RT # | AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 415601 | 5.32 | 615588 | 5.75 | | |
| UPPER LIMIT | 831202 | 5.82 | 1231176 | 6.25 | | |
| LOWER LIMIT | 207800 | 4.82 | 307794 | 5.25 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 LCS0330 | 519204 | 5.33 | 715267 | 5.75 | | |
| 02 LCSD0330 | 483790 | 5.32 | 698198 | 5.75 | | |
| 03 MB0330 | 487441 | 5.33 | 670171 | 5.76 | | |
| 04 TB032510 | 456756 | 5.32 | 654382 | 5.75 | | |
| 05 TB032810 | 455606 | 5.33 | 657384 | 5.76 | | |
| 06 CB31A032510G | 431275 | 5.33 | 614940 | 5.76 | | |
| 07 CB31A032510G | 468699 | 5.33 | 636642 | 5.76 | | |
| 08 CB31A032510G | 445071 | 5.33 | 634500 | 5.76 | | |
| 09 CB4857032510 | 453806 | 5.33 | 612020 | 5.76 | | |
| 10 CB1032510GRA | 438892 | 5.33 | 598574 | 5.76 | | |
| 11 CB101032510G | 420095 | 5.32 | 602942 | 5.75 | | |
| 12 CB31A032910G | 435261 | 5.33 | 586771 | 5.75 | | |
| 13 CB4857032910 | 415408 | 5.33 | 568553 | 5.76 | | |
| 14 CB1032910GRA | 395094 | 5.33 | 565599 | 5.75 | | |
| 15 CB100032910G | 389406 | 5.33 | 558769 | 5.75 | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

**SIM Volatile Analysis
Sample Data**

**prepared
for**

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

**prepared
by**

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69A

QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7709

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 19:30

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 125% |
| d8-Toluene | 103% |

pc
 3/31/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301017.d
 Lab Smp Id: QP69A Client Smp ID: CB31A032510GRAB
 Inj Date : 29-MAR-2010 19:30
 Operator : PC Inst ID: nt7.i
 Smp Info : QP69A,10,10,0
 Misc Info : 10-7709
 Comment :
 Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | 5.209 | (0.905) | 11554 | 13.9030 | 13.903 |
| * 4 Pentafluorobenzene | 168 | 5.328 | 5.315 | (1.000) | 431275 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.327 | (1.000) | 195073 | 1248.38 | 1248.4 (R) |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.011) | 472 | 2.31118 | 2.311 (Q) |
| 8 Trichloroethene | 130 | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | 5.757 | 5.745 | (1.000) | 614940 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.901 | 6.903 | (1.199) | 721049 | 1030.93 | 1030.9 |
| 10 Tetrachloroethene | 166 | | | | | | |
| 11 1,1,2,2-Tetrachloroethane | 83 | | | | | | |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03301017.d
Lab Smp Id: QP69A
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7709

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: CB31A032510GRAB
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 431275 | -1.25 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 614940 | -0.65 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.24 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

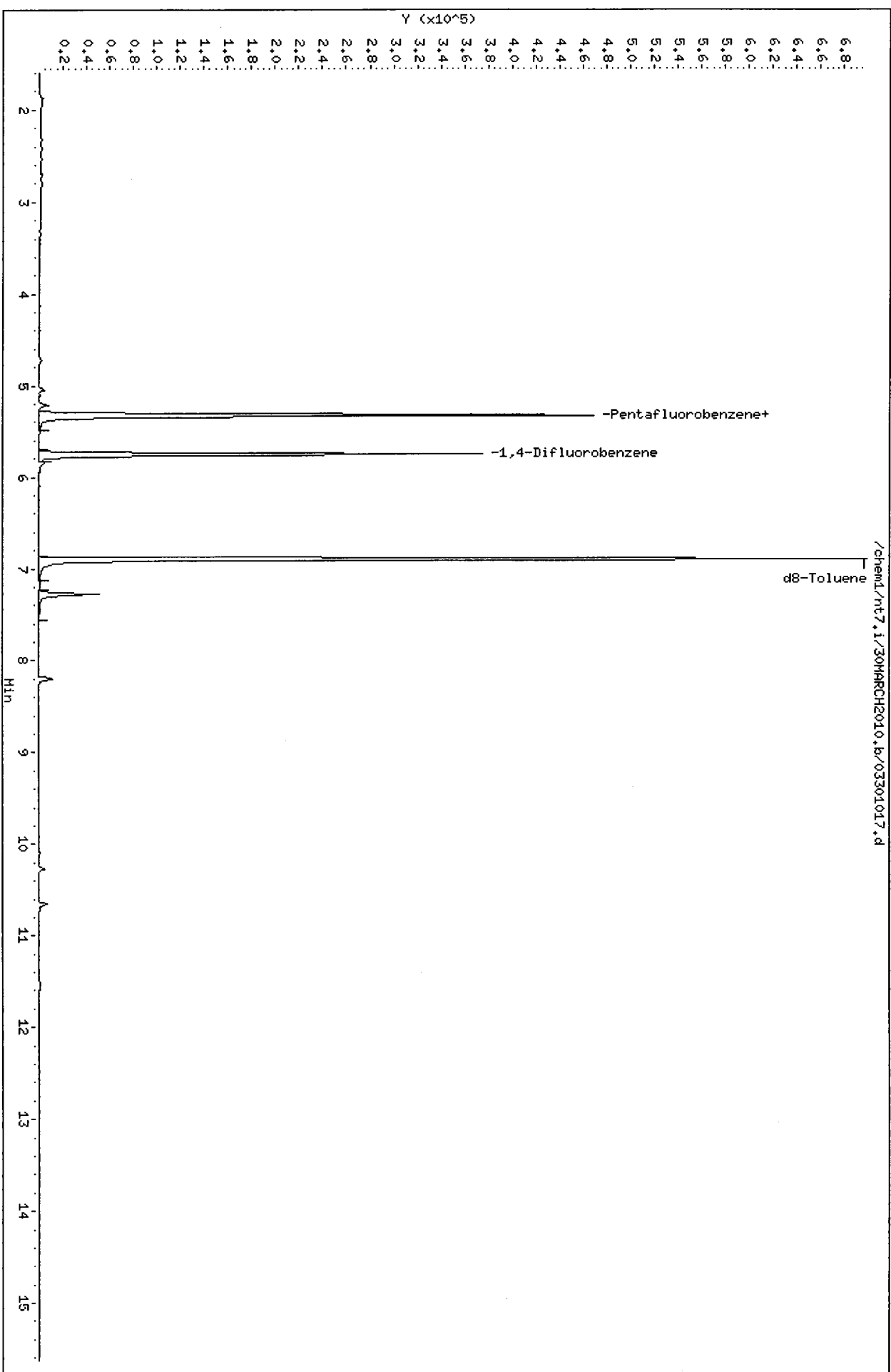
RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QP69A
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7709

Client SDG: QP69
Fraction: VOA
Client Smp ID: CB31A032510GRAB
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 | 1248.4 | 124.84* | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1030.9 | 103.09 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301017.d
Date : 29-MAR-2010 19:30
Client ID: CB31A0325100RA8
Sample Info: QP69A.10.10.0
Column phase: RTXVMS
Instrument: nt7.1
Operator: PC
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69B QC Report No: QP69-Floyd/Snider
LIMS ID: 10-7710 Project: Lora Lake Apartment
Matrix: Water POS-LLA
Data Release Authorized:  Date Sampled: 03/25/10
Reported: 03/31/10 Date Received: 03/25/10

Instrument/Analyst: NT7/PKC Sample Amount: 10.0 mL
Date Analyzed: 03/29/10 20:50 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 | 118% |
| d8-Toluene | 103% |

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301020.d
Report Date: 31-Mar-2010 10:25

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301020.d
Lab Smp Id: QP69B Client Smp ID: CB4857032510GRAB
Inj Date : 29-MAR-2010 20:50
Operator : PC Inst ID: nt7.i
Smp Info : QP69B,10,10,0
Misc Info : 10-7710
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.327 | 5.315 | (1.000) | 453806 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.000) | 193197 | 1174.99 | 1175.0 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.011) | 511 | 2.37626 | 2.376(Q) |
| 8 Trichloroethene | 130 | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | 5.758 | 5.745 | (1.000) | 612020 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.199) | 718968 | 1032.86 | 1032.9 |
| 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: 03301020.d
Lab Smp Id: QP69B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7710

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: CB4857032510GRAB
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 453806 | 3.91 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 612020 | -1.13 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: QP69B
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7710

Client SDG: QP69
Fraction: VOA
Client Smp ID: CB4857032510GRAB
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 | 1175.0 | 117.50 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1032.9 | 103.29 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301020.d

Date : 29-MAR-2010 20:50

Client ID: CB4857032510GRAB

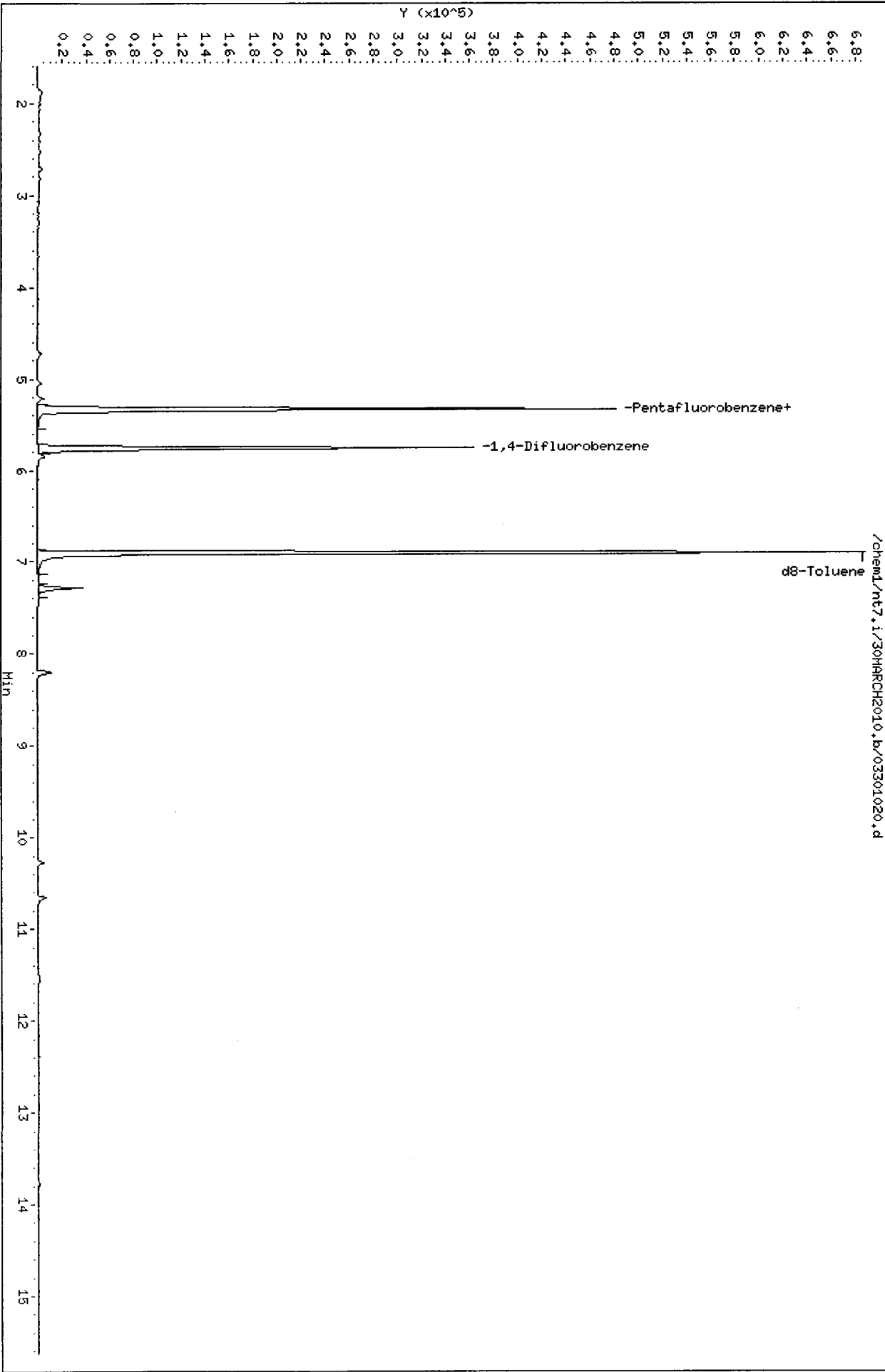
Sample Info: QP69B.10.10.0

Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



QP69 : 00056

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69C
LIMS ID: 10-7711
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/31/10

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA
Date Sampled: 03/25/10
Date Received: 03/25/10

Instrument/Analyst: NT7/PKC
Date Analyzed: 03/29/10 21:16

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 118% |
| d8-Toluene | 102% |

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301021.d
Report Date: 31-Mar-2010 10:25

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301021.d
Lab Smp Id: QP69C Client Smp ID: CB1032510GRAB
Inj Date : 29-MAR-2010 21:16
Operator : PC Inst ID: nt7.i
Smp Info : QP69C,10,10,0
Misc Info : 10-7711
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | | 5.327 | 5.315 | (1.000) | 438892 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.327 | 5.327 | (1.000) | 188284 | 1184.02 | 1184.0 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.011) | 501 | 2.40956 | 2.410(Q) |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.757 | 5.745 | (1.000) | 598574 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.903 | 6.903 | (1.199) | 697112 | 1023.96 | 1024.0 |
| 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: 03301021.d
Lab Smp Id: QP69C
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7711

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: CB1032510GRAB
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 438892 | 0.50 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 598574 | -3.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: QP69C
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7711

Client SDG: QP69
Fraction: VOA
Client Smp ID: CB1032510GRAB
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 | 1184.0 | 118.40 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1024.0 | 102.40 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301021.d

Date : 29-MAR-2010 21:16

Client ID: CB1032510GRAB

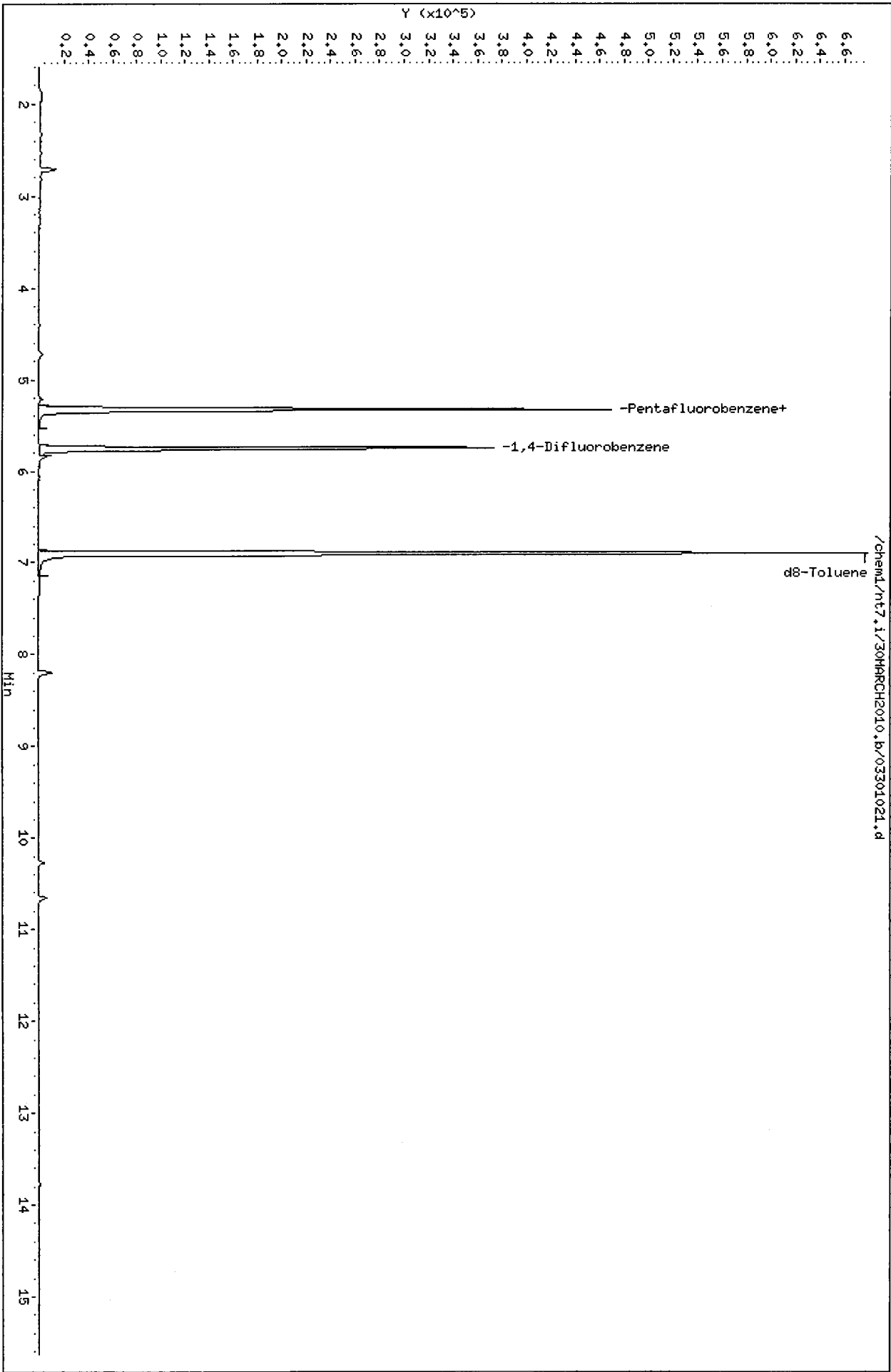
Sample Info: QP69C,10,10,0

Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



QP69 : 00002

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB101032510GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QP69D

QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7712

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 21:43

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 127% |
| d8-Toluene | 102% |

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301022.d
Report Date: 31-Mar-2010 10:25

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301022.d
Lab Smp Id: QP69D Client Smp ID: CB101032510GRAB
Inj Date : 29-MAR-2010 21:43
Operator : PC Inst ID: nt7.i
Smp Info : QP69D,10,10,0
Misc Info : 10-7712
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.209 | (0.907) | 8686 | 10.6601 | 10.660 |
| * 4 Pentafluorobenzene | 168 | 5.316 | 5.315 | (1.000) | 420095 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.327 | (1.002) | 193059 | 1268.37 | 1268.4 (R) |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.013) | 462 | 2.32264 | 2.323 (Q) |
| 8 Trichloroethene | 130 | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 602942 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 701425 | 1022.83 | 1022.8 |
| 10 Tetrachloroethene | 166 | | | | | | |
| 11 1,1,2,2-Tetrachloroethane | 83 | | | | | | |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03301022.d
 Lab Smp Id: QP69D
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-7712

Calibration Date: 29-MAR-2010
 Calibration Time: 12:45
 Client Smp ID: CB101032510GRAB
 Level: LOW
 Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 420095 | -3.81 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 602942 | -2.59 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: QP69D
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7712

Client SDG: QP69
Fraction: VOA
Client Smp ID: CB101032510GRAB
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 | 1268.4 | 126.84* | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1022.8 | 102.28 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301022.d

Date : 29-MAR-2010 21:43

Client ID: CB101032510GRAB

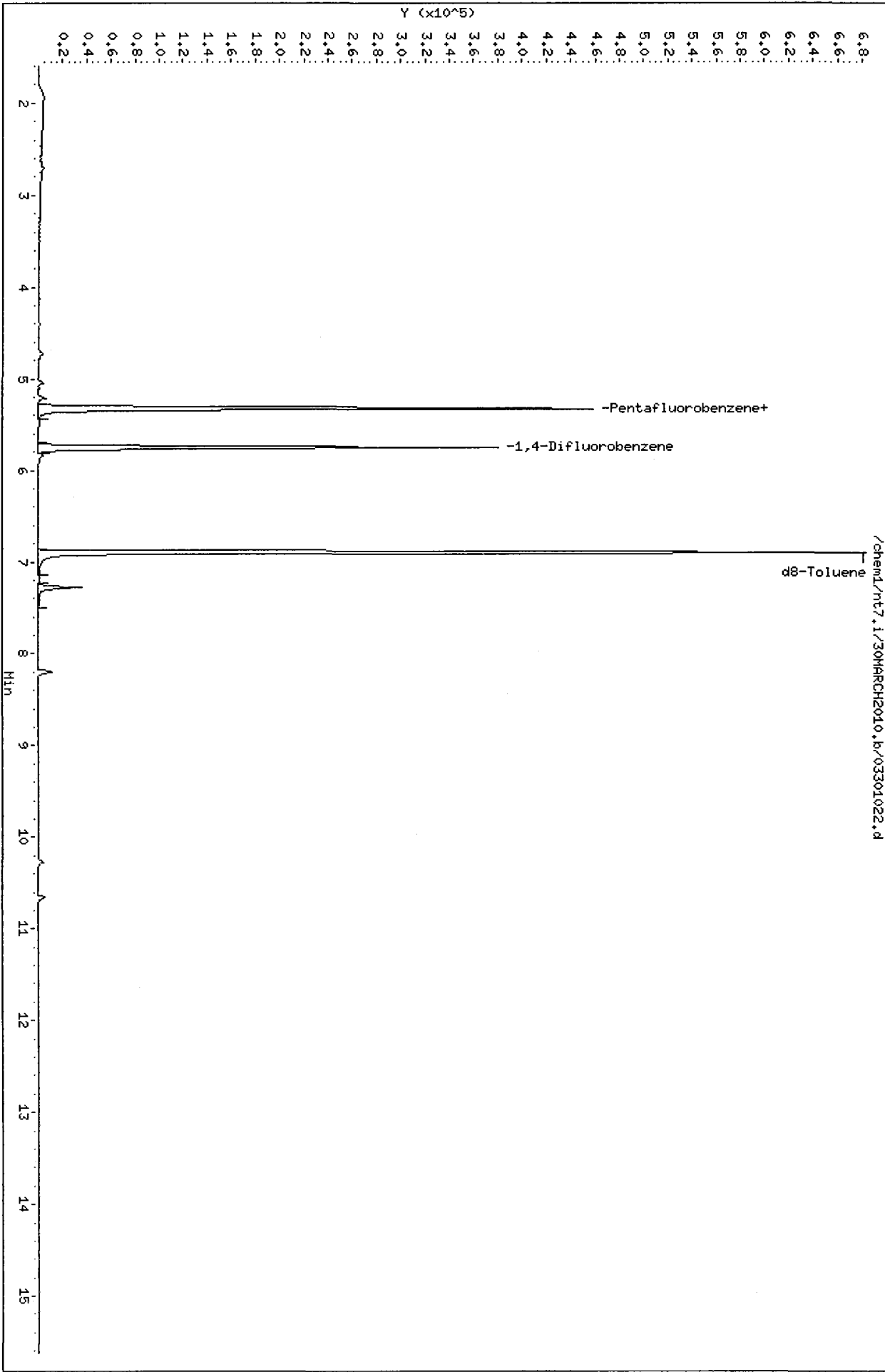
Sample Info: QP69D.10.10.0

Column phase: RTXVMS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



QP69 : 00000

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB032510
Page 1 of 1 Trip Blank

Lab Sample ID: QP69E


QC Report No: QP69-Floyd/Snider

LIMS ID: 10-7713

Project: Lora Lake Apartment

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/25/10

Reported: 03/31/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/29/10 15:03

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 122% |
| d8-Toluene | 103% |

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301007.d
 Lab Smp Id: QP69E Client Smp ID: TB032510
 Inj Date : 29-MAR-2010 15:03
 Operator : PC Inst ID: nt7.i
 Smp Info : QP69E,10,10,0
 Misc Info : 10-7713
 Comment :
 Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | 5.315 | (1.000) | 456756 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.329 | 5.327 | (1.002) | 201027 | 1214.71 | 1214.7(R) |
| 176 1,2-Dichloroethane | 62 | | 5.387 | 5.386 | (1.013) | 239 | 1.10719 | 1.107(Q) |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 654382 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 764450 | 1027.10 | 1027.1 |
| 10 Tetrachloroethene | 166 | | | | | | | |
| 11 1,1,2,2-Tetrachloroethane | 83 | | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt7.i | Calibration Date: 29-MAR-2010 |
| Lab File ID: 03301007.d | Calibration Time: 12:45 |
| Lab Smp Id: QP69E | Client Smp ID: TB032510 |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: Water |
| Operator: PC | |
| Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m | |
| Misc Info: 10-7713 | |

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 456756 | 4.59 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 654382 | 5.72 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.03 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QP69E
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7713

Client SDG: QP69
Fraction: VOA
Client Smp ID: TB032510
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 | 1214.7 | 121.47* | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1027.1 | 102.71 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301007.d

Date : 29-MAR-2010 15:03

Client ID: TB032510

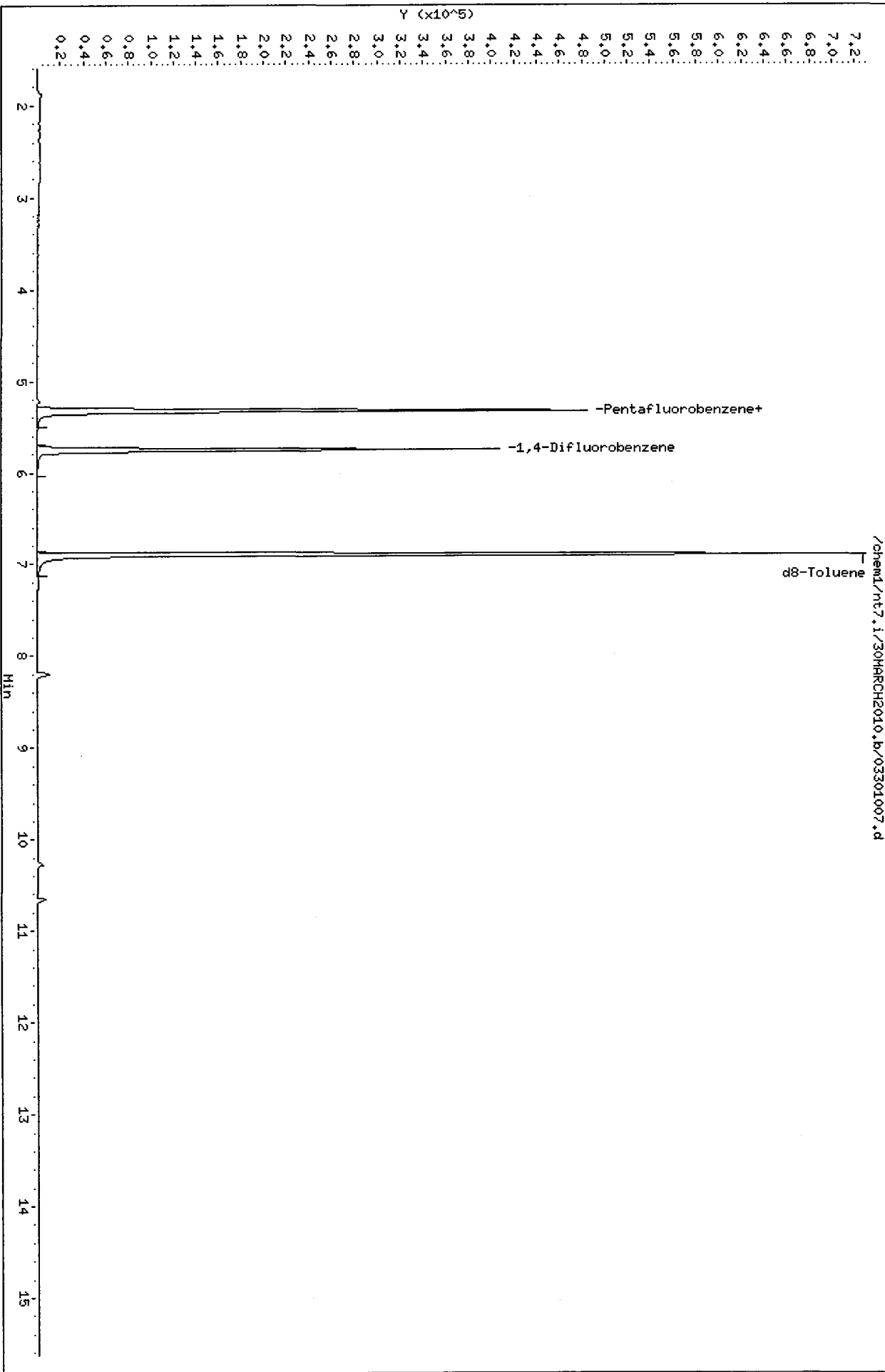
Sample Info: QP69E.10.10.0

Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



QP69 : 00074

SIM Volatile Analysis
Standard Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: QP69
Instrument ID: NT7

Client: FLOYD/SNIDER
Project: LORA LAKE APARTMENT
Calibration Date: 03/18/10

LAB FILE ID: RF20: 03181008 RF50: 03181007 RF100: 03181006
RF500: 03181012 RF1000: 03181011

| COMPOUND | RF20 | RF50 | RF100 | RF500 | RF1000 |
|---------------------------|-------|------|-------|-------|--------|
| Vinyl Chloride | 0.484 | | 0.508 | 0.544 | 0.538 |
| 1,1-Dichloroethene | 0.425 | | 0.408 | 0.446 | 0.435 |
| cis-1,2-dichloroethene | 0.457 | | 0.456 | 0.498 | 0.496 |
| Benzene | 1.396 | | 1.302 | 1.367 | 1.405 |
| Trichloroethene | 0.356 | | 0.334 | 0.350 | 0.363 |
| Tetrachloroethene | 0.307 | | 0.309 | 0.333 | 0.346 |
| 1,1,2,2-Tetrachloroethane | 0.180 | | 0.197 | 0.224 | 0.245 |
| Trans-1,2-Dichloroethene | 0.466 | | 0.433 | 0.491 | 0.485 |
| 1,2-Dichloroethane | 0.379 | | 0.425 | 0.512 | 0.506 |
| d4-1,2-Dichloroethane | 0.379 | | 0.393 | 0.362 | 0.340 |
| d8-Toluene | 1.141 | | 1.146 | 1.135 | 1.134 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No: QP69

Project: LORA LAKE APARTMENT

Instrument ID: NT7

Calibration Date: 03/18/10

LAB FILE ID: RF2000: 03181010 RF4000: 03181009

| COMPOUND | TYPE | RF | CURVE OR R ² | AVE | %RSD |
|---------------------------|-------|-------|----------------------------|-------|------|
| Vinyl Chloride | 0.557 | 0.522 | AVRG | 0.525 | 5.1 |
| 1,1-Dichloroethene | 0.451 | 0.422 | AVRG | 0.431 | 3.8 |
| cis-1,2-dichloroethene | 0.513 | 0.479 | AVRG | 0.483 | 4.8 |
| Benzene | 1.375 | 1.263 | AVRG | 1.351 | 4.2 |
| Trichloroethene | 0.360 | 0.337 | AVRG | 0.350 | 3.4 |
| Tetrachloroethene | 0.339 | 0.320 | AVRG | 0.326 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 0.251 | 0.235 | AVRG | 0.222 | 12.7 |
| Trans-1,2-Dichloroethene | 0.497 | 0.466 | AVRG | 0.473 | 4.9 |
| 1,2-Dichloroethane | 0.532 | 0.490 | AVRG | 0.474 | 12.4 |
| d4-1,2-Dichloroethane | 0.354 | 0.346 | AVRG | 0.362 | 5.7 |
| d8-Toluene | 1.138 | 1.130 | AVRG | 1.137 | 0.5 |

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

FORM VI VOA

QP69: 00077

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
 End Cal Date : 18-MAR-2010 06:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Cal Date : 19-Mar-2010 09:31 paul
 Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt7.i/18MARCH2010.b/03181008.d
- Level 2: /chem1/nt7.i/18MARCH2010.b/03181007.d
- Level 3: /chem1/nt7.i/18MARCH2010.b/03181006.d
- Level 4: /chem1/nt7.i/18MARCH2010.b/03181012.d
- Level 5: /chem1/nt7.i/18MARCH2010.b/03181011.d
- Level 6: /chem1/nt7.i/18MARCH2010.b/03181010.d
- Level 7: /chem1/nt7.i/18MARCH2010.b/03181009.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 | 0.48376 0.52179 | ++++ | 0.50774 | 0.54359 | 0.53814 | 0.55692 | 0.52532 | 5.069 |
| 2 1,1-Dichloroethene | 0.42537 0.42152 | ++++ | 0.40807 | 0.44646 | 0.43475 | 0.45126 | 0.43124 | 3.754 |
| 175 Trans-1,2-Dichloroethene | 0.46650 0.46660 | ++++ | 0.43332 | 0.49097 | 0.48515 | 0.49691 | 0.47324 | 4.910 |
| 3 cis-1,2-dichloroethene | 0.45730 0.47881 | ++++ | 0.45609 | 0.49779 | 0.49618 | 0.51299 | 0.48319 | 4.804 |
| 6 Benzene | 1.39651 1.26302 | ++++ | 1.30166 | 1.36727 | 1.40479 | 1.37544 | 1.35145 | 4.186 |
| 176 1,2-Dichloroethane | 0.37907 0.49034 | ++++ | 0.42523 | 0.51151 | 0.50624 | 0.53152 | 0.47398 | 12.450 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
 End Cal Date : 18-MAR-2010 06:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Cal Date : 19-Mar-2010 09:31 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 | | | | | | | |
| 8 Trichloroethene | 0.35651 0.33729 | ++++ | 0.33408 | 0.34966 | 0.36312 | 0.36008 | 0.35012 | 3.454 |
| 10 Tetrachloroethene | 0.30707 0.31987 | ++++ | 0.30885 | 0.33278 | 0.34616 | 0.33903 | 0.32563 | 4.973 |
| 11 1,1,2,2-Tetrachloroethane | 0.17951 0.23538 | ++++ | 0.19690 | 0.22438 | 0.24462 | 0.25117 | 0.22199 | 12.714 |
| \$ 5 d4-1,2-Dichloroethane | 0.37943 0.34550 | ++++ | 0.39306 | 0.36247 | 0.33968 | 0.35381 | 0.36232 | 5.664 |
| \$ 9 d8-Toluene | 1.14117 1.12969 | ++++ | 1.14584 | 1.13501 | 1.13444 | 1.13810 | 1.13737 | 0.497 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
End Cal Date : 18-MAR-2010 06:47
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Cal Date : 19-Mar-2010 09:31 paul
Curve Type : Average

Average %RSD Results.

Calculated Average %RSD = 5.67955
Maximum Average %RSD = 5.00000
* Failed Average %RSD Test.

PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181006.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181006.d
Lab Smp Id: 01000318 Client Smp ID: 100 PPT
Inj Date : 18-MAR-2010 04:07
Operator : PC Inst ID: nt7.i
Smp Info : 01000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 04:07 Cal File: 03181006.d
Vls bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Compound Variable Local Compound Variable

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng/L) | ON-COL (ng/L) |
| 1 Vinyl Chloride | 62 | 1.554 | 1.554 | (0.292) | 24712 | 100.000 | 96.653 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 19861 | 100.000 | 94.627 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 21090 | 100.000 | 91.564 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 22198 | 100.000 | 94.390 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 92044 | 100.000 | 96.316 |
| 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 486706 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 191304 | 1000.00 | 1084.8 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 20696 | 100.000 | 89.713 |
| 8 Trichloroethene | 130 | 5.711 | 5.710 | (0.994) | 23624 | 100.000 | 95.419 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 707128 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 810254 | 1000.00 | 1007.4 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 21840 | 100.000 | 94.849 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.446 | 9.447 | (1.644) | 13923 | 100.000 | 88.694 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181006.d
 Lab Smp Id: 01000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 100 PPT
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 486706 | 11.45 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 707128 | 14.24 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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/18MARCH2010.b/03181006.d

Date: 18-MAR-2010 04:07

Client ID: 100 PPT

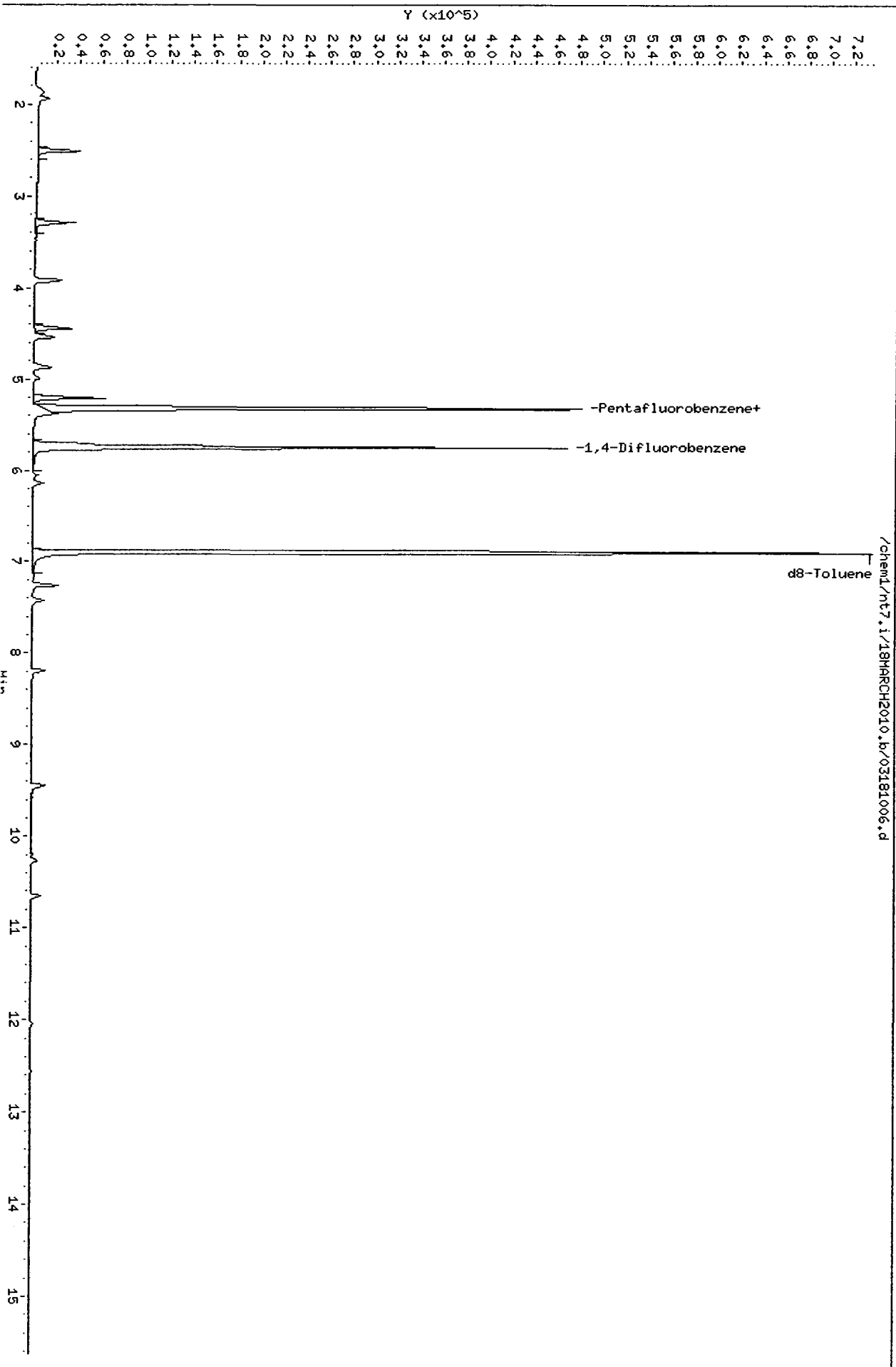
Sample Info: 01000318,10,10,0

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

Column phase: RTXVHS



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Data File: /chem1/nt7.i/18MARCH2010.b/03181008.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181008.d
Lab Smp Id: 00200318 Client Smp ID: 20 PPT
Inj Date : 18-MAR-2010 05:01
Operator : PC Inst ID: nt7.i
Smp Info : 00200318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:01 Cal File: 03181008.d
Als bottle: 1 Calibration Sample, Level: 1
Oil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.553 | 1.554 | (0.292) | 4681 | 20.0000 | 18.418 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 4116 | 20.0000 | 19.728 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 4514 | 20.0000 | 19.715 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 4425 | 20.0000 | 18.928 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 18928 | 20.0000 | 20.667 |
| 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 483815 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.328 | (1.002) | 183573 | 1000.00 | 1047.2 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 3668 | 20.0000 | 15.995 |
| 8 Trichloroethene | 130 | 5.711 | 5.710 | (0.994) | 4832 | 20.0000 | 20.365 |
| 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 677688 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 773355 | 1000.00 | 1003.3 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 4162 | 20.0000 | 18.860 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.458 | 9.447 | (1.646) | 2433 | 20.0000 | 16.172 |

Data File: /chem1/nt7.i/18MARCH2010.b/03181008.d

Date: 18-MAR-2010 05:04

Client ID: 20 PPT

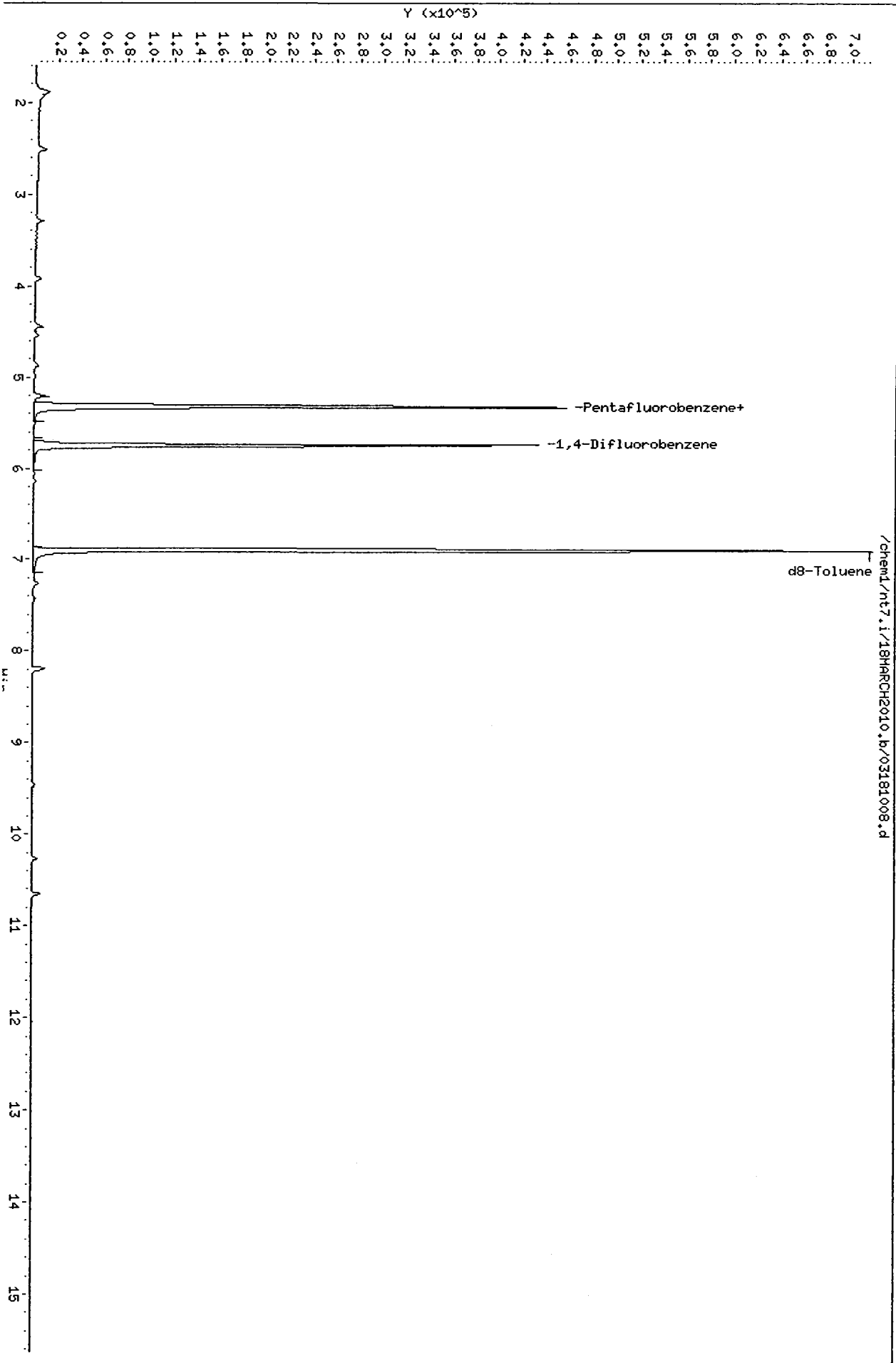
Sample Info: 00200318,10,10,0

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



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Data File: /chem1/nt7.i/18MARCH2010.b/03181009.d
Report Date: 19-Mar-2010 10:17

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181009.d
Lab Smp Id: 40000318 Client Smp ID: 4 PPB
Inj Date : 18-MAR-2010 05:27
Operator : PC Inst ID: nt7.i
Smp Info : 40000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:27 Cal File: 03181009.d
Vls bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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) |
| 1 Vinyl Chloride | 62 | | 1.550 | 1.554 | (0.292) | 976919 | 4000.00 | 3973.1 |
| 2 1,1-Dichloroethene | 96 | | 2.520 | 2.519 | (0.474) | 789181 | 4000.00 | 3909.8 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.296 | 3.295 | (0.620) | 873583 | 4000.00 | 3943.9 |
| 3 cis-1,2-dichloroethene | 96 | | 4.447 | 4.446 | (0.836) | 896442 | 4000.00 | 3963.7 |
| 6 Benzene | 78 | | 5.211 | 5.210 | (0.907) | 3489674 | 4000.00 | 3738.3 |
| 4 Pentafluorobenzene | 168 | | 5.317 | 5.316 | (1.000) | 468059 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.328 | (1.002) | 161716 | 1000.00 | 953.58 |
| 176 1,2-Dichloroethane | 62 | | 5.375 | 5.386 | (1.011) | 918031 | 4000.00 | 4138.0 |
| 8 Trichloroethene | 130 | | 5.711 | 5.710 | (0.994) | 931919 | 4000.00 | 3853.4 |
| 7 1,4-Difluorobenzene | 114 | | 5.745 | 5.745 | (1.000) | 690741 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 780321 | 1000.00 | 993.24 |
| 10 Tetrachloroethene | 166 | | 7.258 | 7.260 | (1.263) | 883796 | 4000.00 | 3929.3 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.445 | 9.447 | (1.644) | 650351 | 4000.00 | 4241.2 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Job File ID: 03181009.d
 Job Smp Id: 40000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 4 PPB
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 468059 | 7.18 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 690741 | 11.59 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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/18MARCH2010.b/03181009.d

Date: 18-MAR-2010 05:27

Client ID: 4 PPB

Sample Info: 40000318,10,10,0

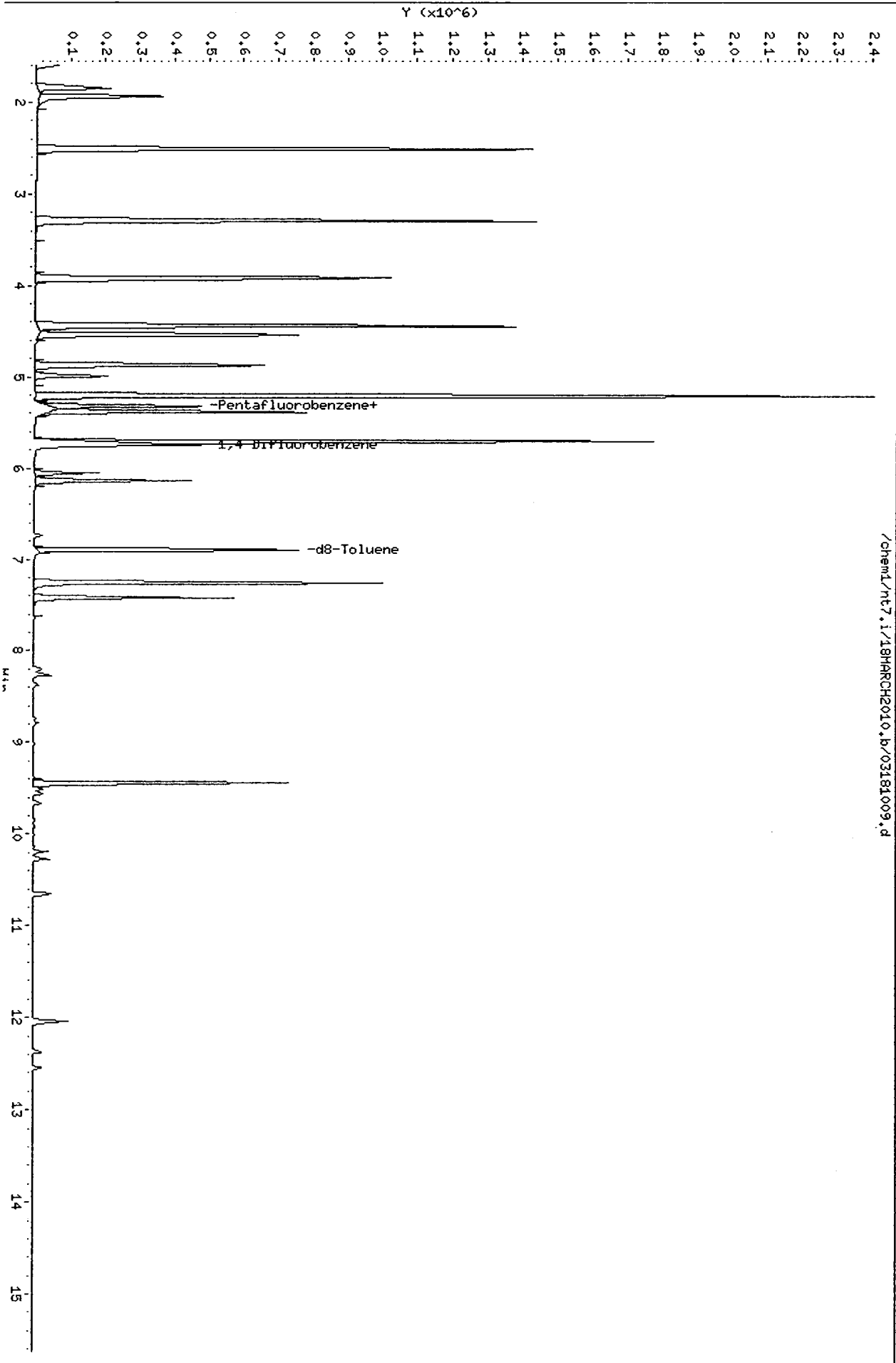
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

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/chem1/nt7.i/18MARCH2010.b/03181009.d

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Data File: /chem1/nt7.i/18MARCH2010.b/03181010.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181010.d
Lab Smp Id: 20000318 Client Smp ID: 2 PPB
Inj Date : 18-MAR-2010 05:54 Inst ID: nt7.i
Operator : PC
Smp Info : 20000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:54 Cal File: 03181010.d
Vls bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 493762 | 2000.00 | 2120.3 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 400081 | 2000.00 | 2092.8 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 440559 | 2000.00 | 2100.0 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 454814 | 2000.00 | 2123.3 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 1807019 | 2000.00 | 2035.5 |
| 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 443296 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.328 | (1.002) | 156841 | 1000.00 | 976.49 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 471238 | 2000.00 | 2242.8 |
| 8 Trichloroethene | 130 | 5.712 | 5.710 | (0.994) | 473069 | 2000.00 | 2056.9 |
| 7 1,4-Difluorobenzene | 114 | 5.747 | 5.745 | (1.000) | 656889 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 747607 | 1000.00 | 1000.6 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 445404 | 2000.00 | 2082.3 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.446 | 9.447 | (1.644) | 329981 | 2000.00 | 2262.9 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181010.d
 Lab Smp Id: 20000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 2 PPB
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 443296 | 1.51 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 656889 | 6.12 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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/18MARCH2010.b/03181010.d

Date: 18-MAR-2010 05:54

Client ID: 2 PPB

Sample Info: 20000318,10,10,0

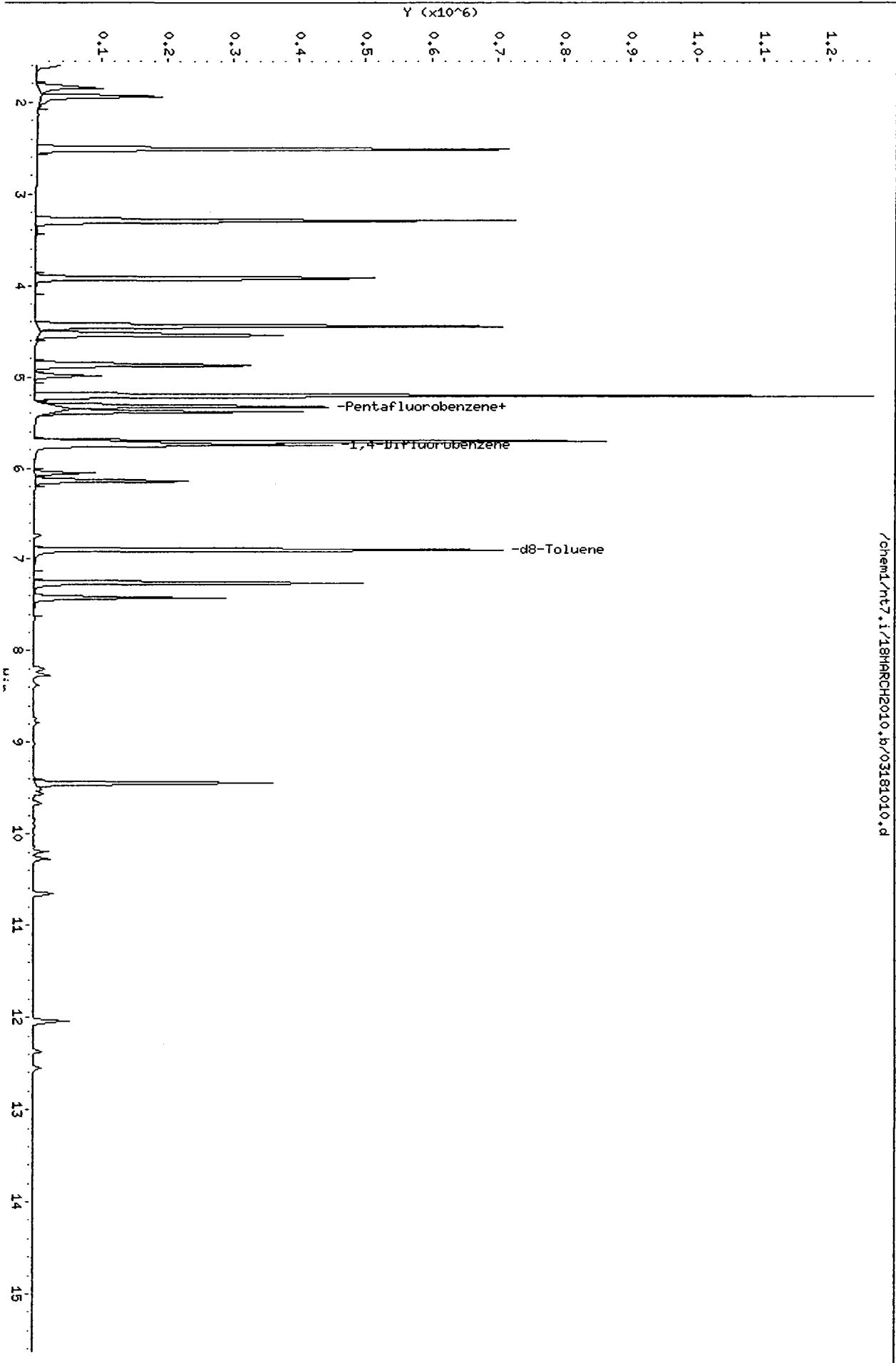
Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/18MARCH2010.b/03181010.d



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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181011.d
Lab Smp Id: 10000318 Client Smp ID: 1 PPB
Inj Date : 18-MAR-2010 06:21
Operator : PC Inst ID: nt7.i
Smp Info : 10000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:21 Cal File: 03181011.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 235013 | 1000.00 | 1024.4 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 189863 | 1000.00 | 1008.2 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.295 | 3.295 | (0.620) | 211872 | 1000.00 | 1025.2 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 216688 | 1000.00 | 1026.9 |
| 6 Benzene | 78 | | 5.210 | 5.210 | (0.907) | 869551 | 1000.00 | 1039.5 |
| 4 Pentafluorobenzene | 168 | | 5.316 | 5.316 | (1.000) | 436713 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.328 | (1.002) | 148341 | 1000.00 | 937.49 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 221082 | 1000.00 | 1068.1 |
| 8 Trichloroethene | 130 | | 5.710 | 5.710 | (0.994) | 224768 | 1000.00 | 1037.1 |
| 7 1,4-Difluorobenzene | 114 | | 5.745 | 5.745 | (1.000) | 618992 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.903 | 6.903 | (1.202) | 702212 | 1000.00 | 997.42 |
| 10 Tetrachloroethene | 166 | | 7.260 | 7.260 | (1.264) | 214273 | 1000.00 | 1063.1 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.447 | 9.447 | (1.644) | 151420 | 1000.00 | 1101.9 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt7.i | Calibration Date: 18-MAR-2010 |
| Lab File ID: 03181011.d | Calibration Time: 06:21 |
| Lab Smp Id: 10000318 | Client Smp ID: 1 PPB |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: PC | |
| Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m | |
| Misc Info: 10- | |

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 436713 | 0.00 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 618992 | 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 | 5.75 | 5.25 | 6.25 | 5.75 | 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/18MARCH2010.b/03181011.d

Date : 18-MAR-2010 06:21

Client ID: 1 PPB

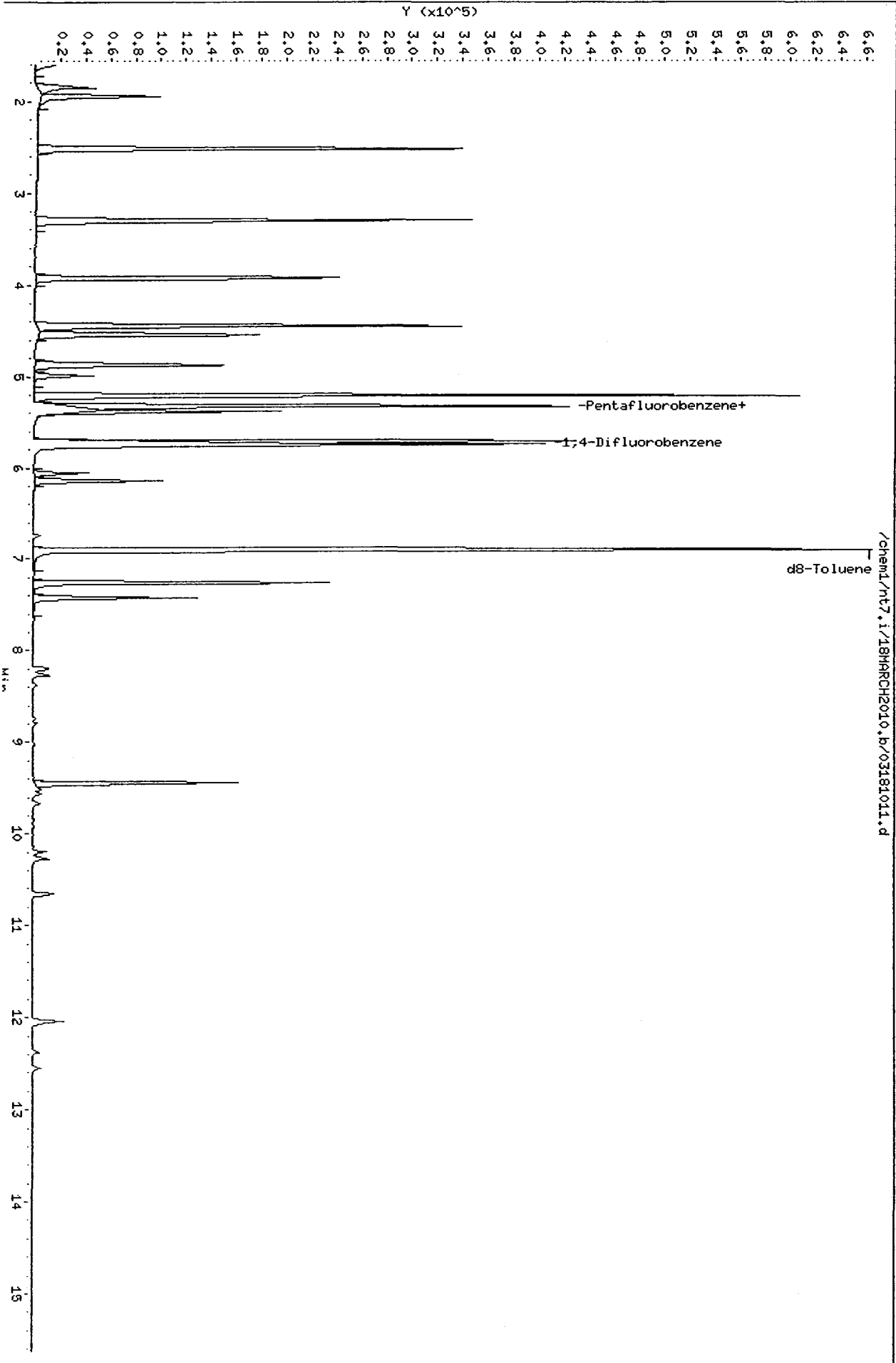
Sample Info: 10000318,10,10,0

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/18MARCH2010.b/03181012.d
Lab Smp Id: 05000318 Client Smp ID: 500 PPT
Inj Date : 18-MAR-2010 06:47
Operator : PC Inst ID: nt7.i
Smp Info : 05000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Vls bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | SIG | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/L) | ON-COL (ng/L) |
| 1 Vinyl Chloride | 62 | ==== | 1.553 | 1.554 | (0.292) | 112959 | 500.000 | 517.39 |
| 2 1,1-Dichloroethene | 96 | ==== | 2.520 | 2.519 | (0.474) | 92775 | 500.000 | 517.65 |
| 175 Trans-1,2-Dichloroethene | 96 | ==== | 3.296 | 3.295 | (0.620) | 102023 | 500.000 | 518.73 |
| 3 cis-1,2-dichloroethene | 96 | ==== | 4.447 | 4.446 | (0.836) | 103442 | 500.000 | 515.11 |
| 6 Benzene | 78 | ==== | 5.211 | 5.210 | (0.907) | 420837 | 500.000 | 505.85 |
| 4 Pentafluorobenzene | 168 | ==== | 5.317 | 5.316 | (1.000) | 415601 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | ==== | 5.328 | 5.328 | (1.002) | 150644 | 1000.00 | 1000.4 |
| 176 1,2-Dichloroethane | 62 | ==== | 5.387 | 5.386 | (1.013) | 106291 | 500.000 | 539.58 |
| 8 Trichloroethene | 130 | ==== | 5.712 | 5.710 | (0.994) | 107622 | 500.000 | 499.33 |
| 7 1,4-Difluorobenzene | 114 | ==== | 5.746 | 5.745 | (1.000) | 615588 | 1000.00 | |
| 9 d8-Toluene | 98 | ==== | 6.902 | 6.903 | (1.201) | 698699 | 1000.00 | 997.92 |
| 10 Tetrachloroethene | 166 | ==== | 7.258 | 7.260 | (1.263) | 102427 | 500.000 | 510.98 |
| 11 1,1,2,2-Tetrachloroethane | 83 | ==== | 9.445 | 9.447 | (1.644) | 69063 | 500.000 | 505.38 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt7.i | Calibration Date: 18-MAR-2010 |
| Lab File ID: 03181012.d | Calibration Time: 06:21 |
| Lab Smp Id: 05000318 | Client Smp ID: 500 PPT |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: PC | |
| Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m | |
| Misc Info: 10- | |

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 415601 | -4.83 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 615588 | -0.55 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: /chem1/nt7.i/18MAR2010.b/03181012.d

Date: 18-MAR-2010 06:47

Client ID: 500 PPT

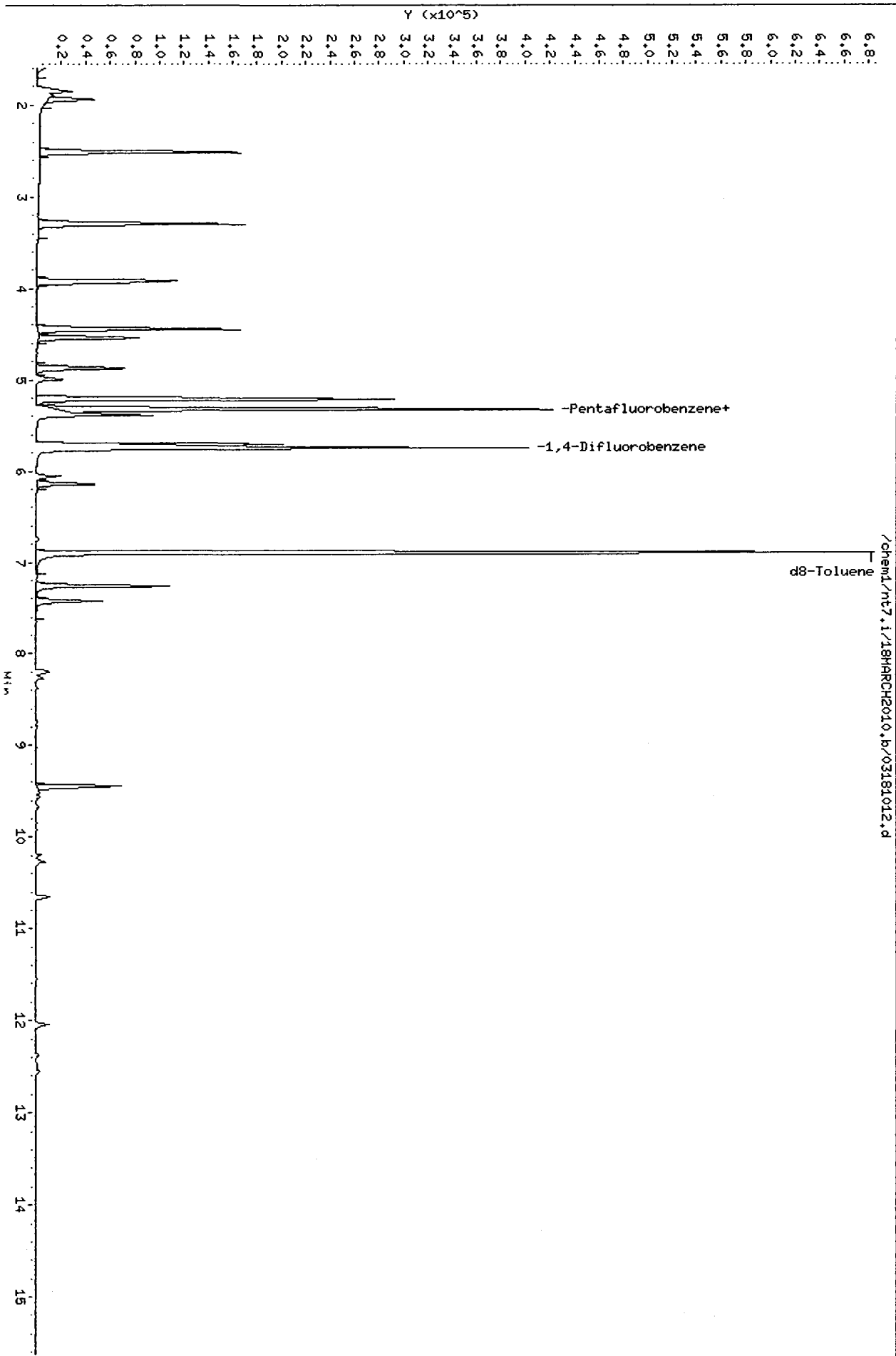
Sample Info: 05000318,10,10,0

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



000000 : 000000

PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181013.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181013.d
Lab Smp Id: icv0318 Client Smp ID: icv0318
Inj Date : 18-MAR-2010 07:14
Operator : PC Inst ID: nt7.i
Smp Info : icv0318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Vials bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 217111 | 1008.81 | 1008.8 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 175819 | 995.184 | 995.18 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.295 | 3.295 | (0.620) | 201746 | 1040.58 | 1040.6 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 210840 | 1065.09 | 1065.1 |
| 6 Benzene | 78 | | 5.210 | 5.210 | (0.907) | 859471 | 1035.47 | 1035.5 |
| 4 Pentafluorobenzene | 168 | | 5.316 | 5.316 | (1.000) | 409680 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.328 | (1.002) | 146516 | 987.058 | 987.06 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 219876 | 1132.32 | 1132.3 |
| 8 Trichloroethene | 130 | | 5.712 | 5.710 | (0.994) | 224489 | 1043.95 | 1043.9 |
| 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 614179 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.903 | 6.903 | (1.201) | 699132 | 1000.83 | 1000.8 |
| 10 Tetrachloroethene | 166 | | 7.260 | 7.260 | (1.263) | 213067 | 1065.37 | 1065.4 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.447 | 9.447 | (1.644) | 148477 | 1088.99 | 1089.0 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03181013.d
Lab Smp Id: icv0318
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
Disc Info: 10-

Calibration Date: 18-MAR-2010
Calibration Time: 06:21
Client Smp ID: icv0318
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 409680 | -6.19 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 614179 | -0.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 18MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: icv0318 Client Smp ID: icv0318
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 1008.8 | 100.88 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1132.3 | 113.23 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1040.6 | 104.06 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 995.18 | 99.52 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1065.1 | 106.51 | 76-127 |
| 6 Benzene | 1000.0 | 1035.5 | 103.55 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1043.9 | 104.39 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1065.4 | 106.54 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1089.0 | 108.90 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 987.06 | 98.71 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1000.8 | 100.08 | 60-140 |

Data File: /chem1/nt7.i/18MARCH2010.b/03181013.d

Date : 18-MAR-2010 07:14

Client ID: icv0318

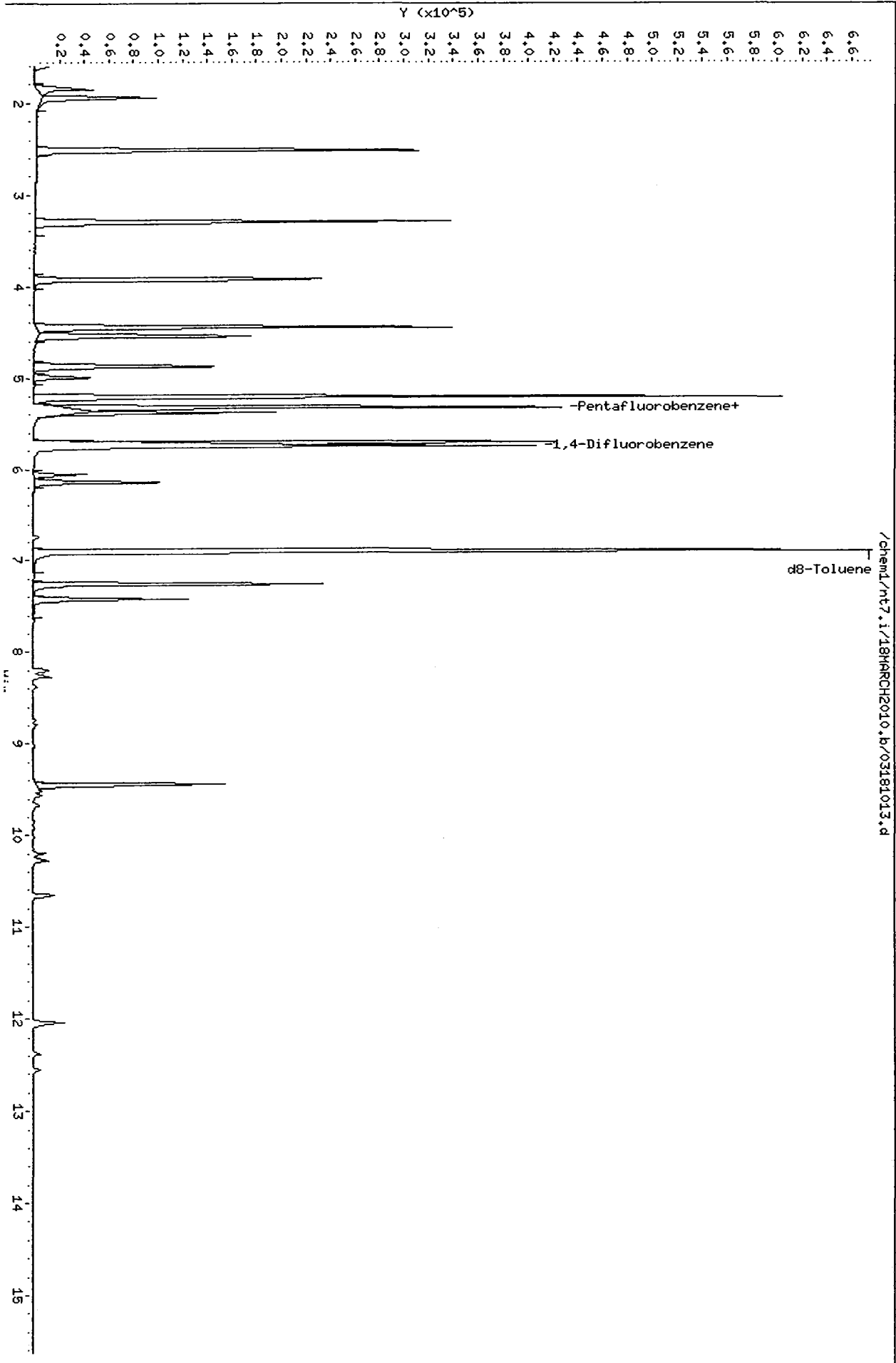
Sample Info: icv0318,10,10,0

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



NOT USED
IS FAILURES
KC
3/19/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181007.d
Lab Smp Id: 00500318 Client Smp ID: 50 PPT
Inj Date : 18-MAR-2010 04:34
Operator : PC Inst ID: nt7.i
Smp Info : 00500318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 04:34 Cal File: 03181007.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Compound Sublist: all.sub
Integrator: HP RTE
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT | SIG | AMOUNTS | | | | |
|------------------------------|-------|-------|---------|---------|--------|---------|----------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE |
| 1 Vinyl Chloride | 62 | 1.552 | 1.554 | (0.292) | 11141 | 50.0000 | 100.57 |
| 2 1,1-Dichloroethene | 96 | 2.520 | 2.519 | (0.474) | 9588 | 50.0000 | 105.43 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 9430 | 50.0000 | 94.492 |
| 3 cis-1,2-dichloroethene | 96 | 4.447 | 4.446 | (0.836) | 10245 | 50.0000 | 100.54 |
| 6 Benzene | 78 | 5.211 | 5.210 | (0.907) | 42374 | 50.0000 | 106.56 |
| 4 Pentafluorobenzene | 168 | 5.317 | 5.316 | (1.000) | 210878 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 76125 | 1000.00 | 996.32 |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.013) | 10268 | 50.0000 | 102.73 |
| 8 Trichloroethene | 130 | 5.712 | 5.710 | (0.994) | 10972 | 50.0000 | 106.50 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 294252 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 334875 | 1000.00 | 1000.6 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 9990 | 50.0000 | 104.26 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.457 | 9.447 | (1.646) | 6166 | 50.0000 | 94.394 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181007.d
 Lab Smp Id: 00500318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Disc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 50 PPT
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-----------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 210878 | -51.71 <- |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 294252 | -52.46 <- |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.01 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: /chem1/nt7.1/18MARCH2010.b/03181007.d

Date : 18-MAR-2010 04:34

Client ID: 50 PPT

Sample Info: 00500318,10,10,0

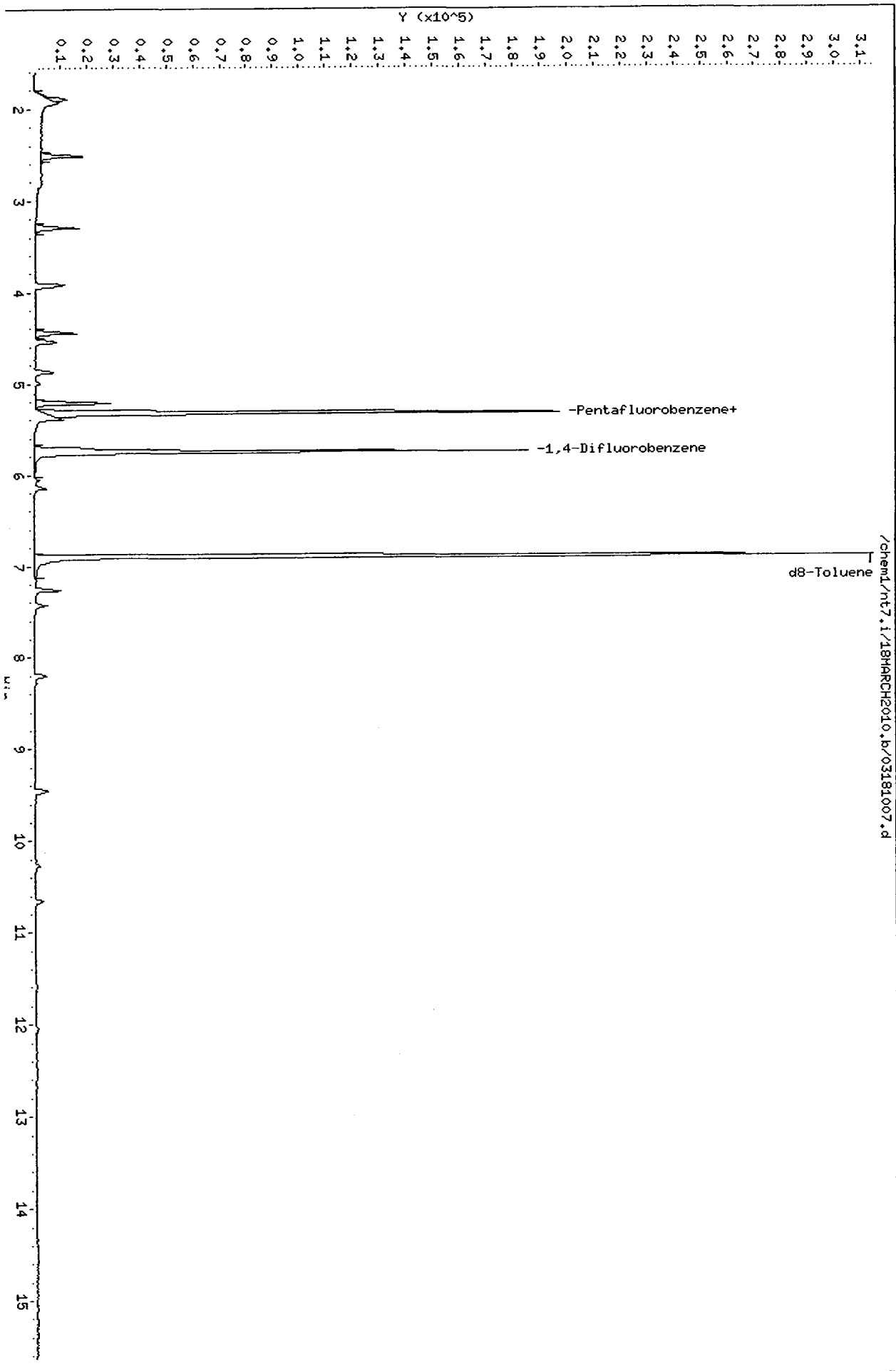
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

Page 3



VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

ARI Job No: QP69

Project: LORA LAKE APARTMENT

Instrument ID: NT7

Cont. Calib. Date: 03/29/10

Init. Calib. Date: 03/18/10

Cont. Calib. Time: 1245

| COMPOUND | CalAmt or ARF | CC Amt 1000 | MIN RRF | CURVE TYPE | %D or Drift |
|---------------------------|------------------|----------------|------------|---------------|----------------|
| Vinyl Chloride | 0.526 | 0.502 | 0.010 | AVRG | -4.6 |
| 1,1-Dichloroethene | 0.431 | 0.410 | 0.010 | AVRG | -4.9 |
| cis-1,2-dichloroethene | 0.483 | 0.445 | 0.010 | AVRG | -7.9 |
| Benzene | 1.351 | 1.246 | 0.010 | AVRG | -7.8 |
| Trichloroethene | 0.350 | 0.324 | 0.010 | AVRG | -7.4 |
| Tetrachloroethene | 0.326 | 0.317 | 0.010 | AVRG | -2.8 |
| 1,1,2,2-Tetrachloroethane | 0.222 | 0.238 | 0.300 | AVRG | 7.2 * |
| Trans-1,2-Dichloroethene | 0.473 | 0.440 | 0.010 | AVRG | -7.0 |
| 1,2-Dichloroethane | 0.474 | 0.503 | 0.010 | AVRG | 6.1 |
| d4-1,2-Dichloroethane | 0.362 | 0.385 | 0.010 | AVRG | 6.4 |
| d8-Toluene | 1.137 | 1.146 | 0.010 | AVRG | 0.8 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301002.d
Report Date: 31-Mar-2010 10:24

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301002.d
Lab Smp Id: CC0330 Client Smp ID: CC0330
Inj Date : 29-MAR-2010 12:45
Operator : PC Inst ID: nt7.i
Smp Info : CC0330,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:24 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | 1.554 | (0.292) | 249805 | 1000.00 | 955.63 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 203854 | 1000.00 | 949.99 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.294 | 3.294 | (0.620) | 218805 | 1000.00 | 929.16 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 221446 | 1000.00 | 921.00 |
| 6 Benzene | 78 | 5.209 | 5.209 | (0.907) | 905885 | 1000.00 | 922.40 |
| 4 Pentafluorobenzene | 168 | 5.315 | 5.315 | (1.000) | 497606 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.002) | 191774 | 1000.00 | 1063.7 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 250151 | 1000.00 | 1060.6 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.994) | 235138 | 1000.00 | 924.16 |
| 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 726697 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.202) | 833105 | 1000.00 | 1008.0 |
| 10 Tetrachloroethene | 166 | 7.260 | 7.260 | (1.264) | 230138 | 1000.00 | 972.55 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.447 | 9.447 | (1.644) | 172822 | 1000.00 | 1071.3 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03301002.d
Lab Smp Id: CC0330
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: CC0330
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 497606 | 13.94 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 726697 | 17.40 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt7.i Injection Date: 29-MAR-2010 12:45
 Lab File ID: 03301002.d Init. Cal. Date(s): 18-MAR-2010 18-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 04:07 06:47
 Lab Sample ID: CC0330 Quant Type: ISTD
 Method: /chem1/nt7.i/30MARCH2010.b/sim031810.m

| COMPOUND | RRF / AMOUNT | RF1000 | MIN | | MAX | | CURVE TYPE |
|------------------------------|--------------|---------|-------|-------------|-------------|----------|------------|
| | | | RRF | %D / %DRIFT | %D / %DRIFT | | |
| 1 Vinyl Chloride | 0.52532 | 0.50201 | 0.100 | -4.43744 | 20.00000 | Averaged | |
| 2 1,1-Dichloroethene | 0.43124 | 0.40967 | 0.100 | -5.00129 | 20.00000 | Averaged | |
| 175 Trans-1,2-Dichloroethene | 0.47324 | 0.43972 | 0.100 | -7.08416 | 20.00000 | Averaged | |
| 3 cis-1,2-dichloroethene | 0.48319 | 0.44502 | 0.100 | -7.89951 | 20.00000 | Averaged | |
| 6 Benzene | 1.35145 | 1.24658 | 0.100 | -7.75966 | 20.00000 | Averaged | |
| \$ 5 d4-1,2-Dichloroethane | 0.36232 | 0.38539 | 0.100 | 6.36727 | 20.00000 | Averaged | |
| 176 1,2-Dichloroethane | 0.47398 | 0.50271 | 0.100 | 6.06083 | 20.00000 | Averaged | |
| 8 Trichloroethene | 0.35012 | 0.32357 | 0.100 | -7.58360 | 20.00000 | Averaged | |
| \$ 9 d8-Toluene | 1.13737 | 1.14643 | 0.100 | 0.79590 | 20.00000 | Averaged | |
| 10 Tetrachloroethene | 0.32563 | 0.31669 | 0.100 | -2.74470 | 20.00000 | Averaged | |
| 11 1,1,2,2-Tetrachloroethane | 0.22199 | 0.23782 | 0.100 | 7.12934 | 20.00000 | Averaged | |

Data File: /chem1/nt7.1/30MARCH2010.b/03301002.d

Date : 29-MAR-2010 12:45

Client ID: CC0330

Sample Info: CC0330,10,10,0

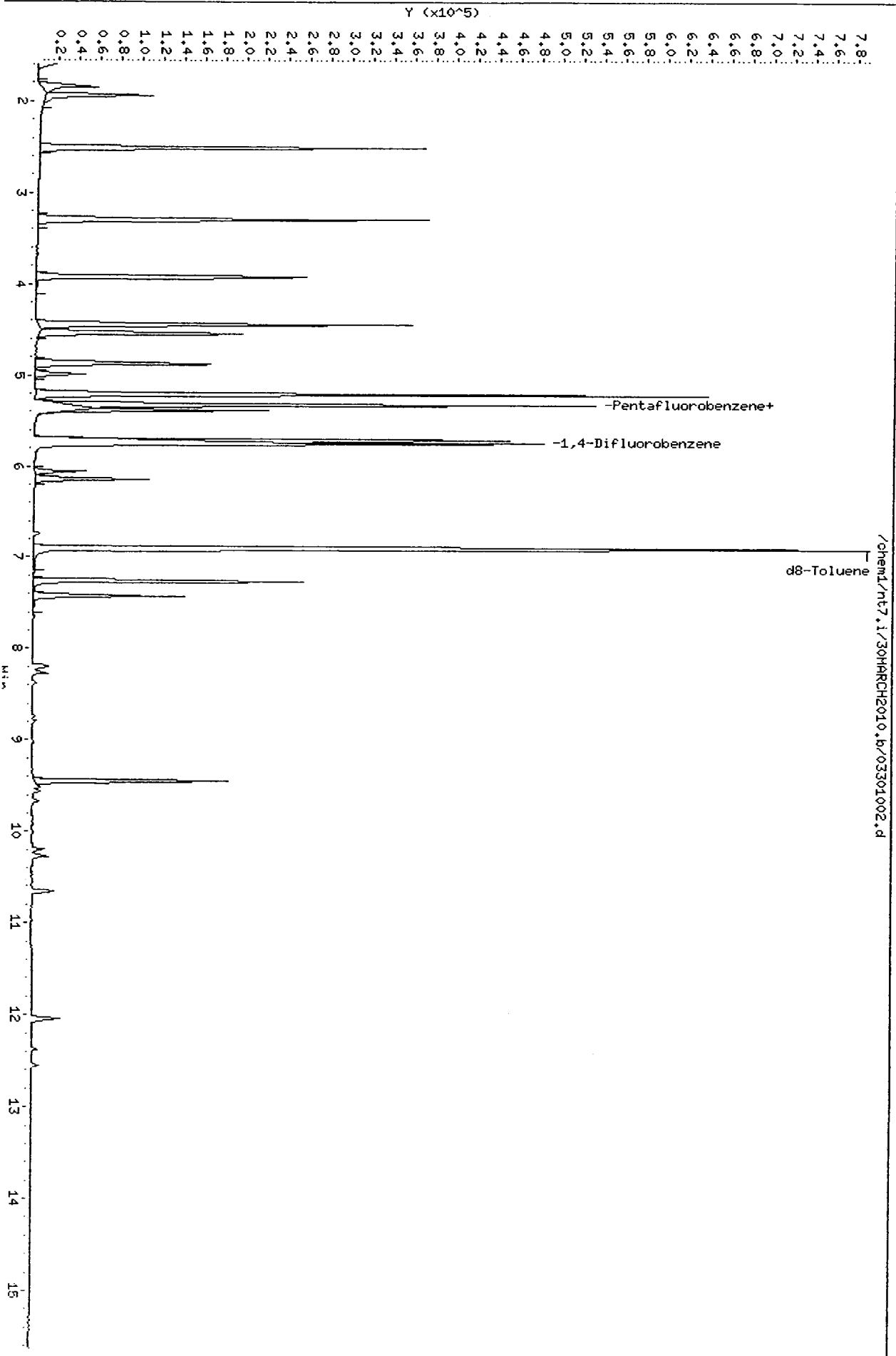
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

Page 3



0330 : 0011 11

SIM Volatile Analysis
QC Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

PC
3/19/10
Page 2

Data File: /chem1/nt7.i/18MARCH2010.b/03181001.d

Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

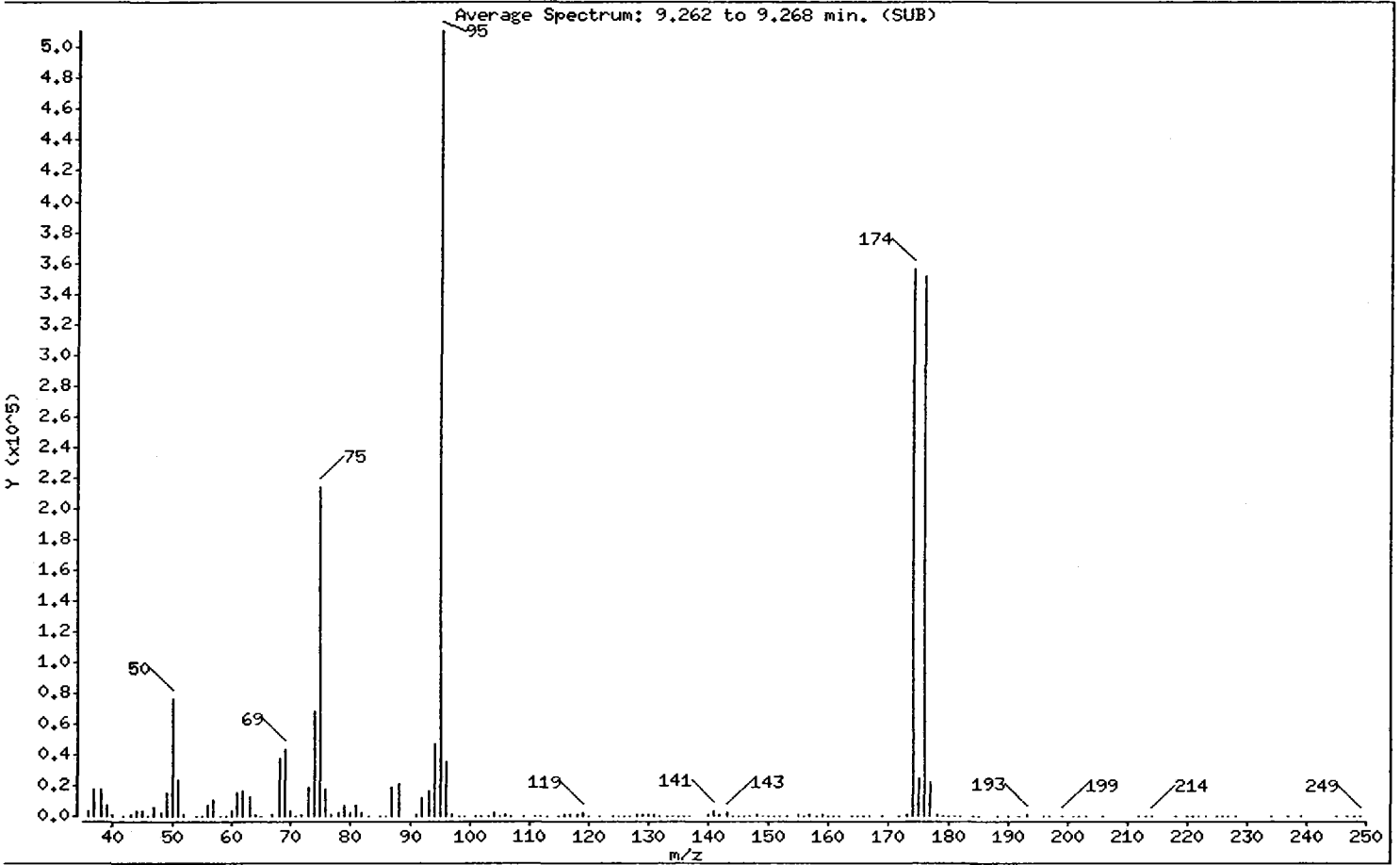
Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 15.00 |
| 75 | 30.00 - 66.00% of mass 95 | 41.84 |
| 96 | 5.00 - 9.00% of mass 95 | 6.87 |
| 173 | Less than 2.00% of mass 174 | 0.23 (0.34) |
| 174 | 50.00 - 101.00% of mass 95 | 69.56 |
| 175 | 4.00 - 9.00% of mass 174 | 4.94 (7.10) |
| 176 | 93.00 - 101.00% of mass 174 | 68.65 (98.70) |
| 177 | 5.00 - 9.00% of mass 176 | 4.38 (6.38) |

Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03181001.d

Spectrum: Average Spectrum; 9.262 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 160

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|------|--------|-----|
| 36.00 | 3271 | 80.00 | 2333 | 130.00 | 1288 | 178.00 | 859 |
| 37.00 | 18080 | 81.00 | 7251 | 131.00 | 870 | 179.00 | 248 |
| 38.00 | 17640 | 82.00 | 1932 | 132.00 | 88 | 180.00 | 77 |
| 39.00 | 6485 | 83.00 | 485 | 133.00 | 190 | 181.00 | 63 |
| 40.00 | 760 | 85.00 | 146 | 134.00 | 197 | 182.00 | 61 |
| 42.00 | 479 | 86.00 | 445 | 135.00 | 489 | 184.00 | 185 |
| 43.00 | 635 | 87.00 | 18224 | 136.00 | 185 | 185.00 | 70 |
| 44.00 | 3064 | 88.00 | 21216 | 137.00 | 229 | 188.00 | 141 |
| 45.00 | 4085 | 91.00 | 750 | 140.00 | 726 | 190.00 | 223 |
| 46.00 | 192 | 92.00 | 11285 | 141.00 | 3175 | 192.00 | 75 |
| 47.00 | 5689 | 93.00 | 16285 | 142.00 | 665 | 193.00 | 895 |
| 48.00 | 2711 | 94.00 | 47400 | 143.00 | 2722 | 196.00 | 174 |
| 49.00 | 14921 | 95.00 | 511040 | 144.00 | 175 | 197.00 | 155 |
| 50.00 | 76672 | 96.00 | 35104 | 145.00 | 550 | 199.00 | 510 |
| 51.00 | 22936 | 97.00 | 1143 | 146.00 | 368 | 201.00 | 54 |
| 52.00 | 1001 | 98.00 | 226 | 147.00 | 353 | 202.00 | 72 |
| 54.00 | 165 | 99.00 | 123 | 148.00 | 1390 | 203.00 | 119 |
| 55.00 | 290 | 101.00 | 119 | 149.00 | 375 | 206.00 | 340 |
| 56.00 | 6704 | 102.00 | 95 | 150.00 | 77 | 212.00 | 242 |
| 57.00 | 10162 | 103.00 | 284 | 151.00 | 266 | 213.00 | 82 |
| 58.00 | 82 | 104.00 | 2356 | 152.00 | 515 | 214.00 | 292 |
| 59.00 | 488 | 105.00 | 238 | 153.00 | 522 | 218.00 | 57 |
| 60.00 | 3987 | 106.00 | 1148 | 155.00 | 1165 | 220.00 | 57 |
| 61.00 | 15800 | 107.00 | 289 | 156.00 | 195 | 221.00 | 67 |
| 62.00 | 16920 | 109.00 | 311 | 157.00 | 833 | 222.00 | 55 |
| 63.00 | 12379 | 111.00 | 472 | 158.00 | 129 | 223.00 | 55 |
| 64.00 | 1418 | 112.00 | 407 | 159.00 | 752 | 225.00 | 110 |
| 65.00 | 345 | 113.00 | 28 | 160.00 | 69 | 226.00 | 152 |
| 67.00 | 673 | 115.00 | 508 | 161.00 | 407 | 227.00 | 61 |
| 68.00 | 37824 | 116.00 | 1431 | 162.00 | 203 | 228.00 | 142 |
| 69.00 | 43080 | 117.00 | 1524 | 164.00 | 197 | 234.00 | 279 |
| 70.00 | 3943 | 118.00 | 927 | 165.00 | 168 | 237.00 | 237 |
| 71.00 | 319 | 119.00 | 2137 | 166.00 | 67 | 239.00 | 68 |
| 72.00 | 1575 | 120.00 | 135 | 167.00 | 140 | 245.00 | 242 |
| 73.00 | 18296 | 122.00 | 171 | 169.00 | 93 | 247.00 | 61 |

Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03181001.d

Spectrum: Average Spectrum; 9.262 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 160

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|------|--------|--------|--------|-----|
| 74.00 | 68536 | 124.00 | 383 | 172.00 | 106 | 248.00 | 131 |
| 75.00 | 213760 | 125.00 | 237 | 173.00 | 1198 | 249.00 | 582 |
| 76.00 | 17832 | 126.00 | 502 | 174.00 | 355456 | | |
| 77.00 | 1420 | 127.00 | 321 | 175.00 | 25232 | | |
| 78.00 | 2052 | 128.00 | 1555 | 176.00 | 350848 | | |
| 79.00 | 7375 | 129.00 | 662 | 177.00 | 22392 | | |

PC
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Page 2

Data File: /chem1/nt7.i/30MARCH2010.b/03301001.d

Date : 29-MAR-2010 12:06

Client ID: BFB0330

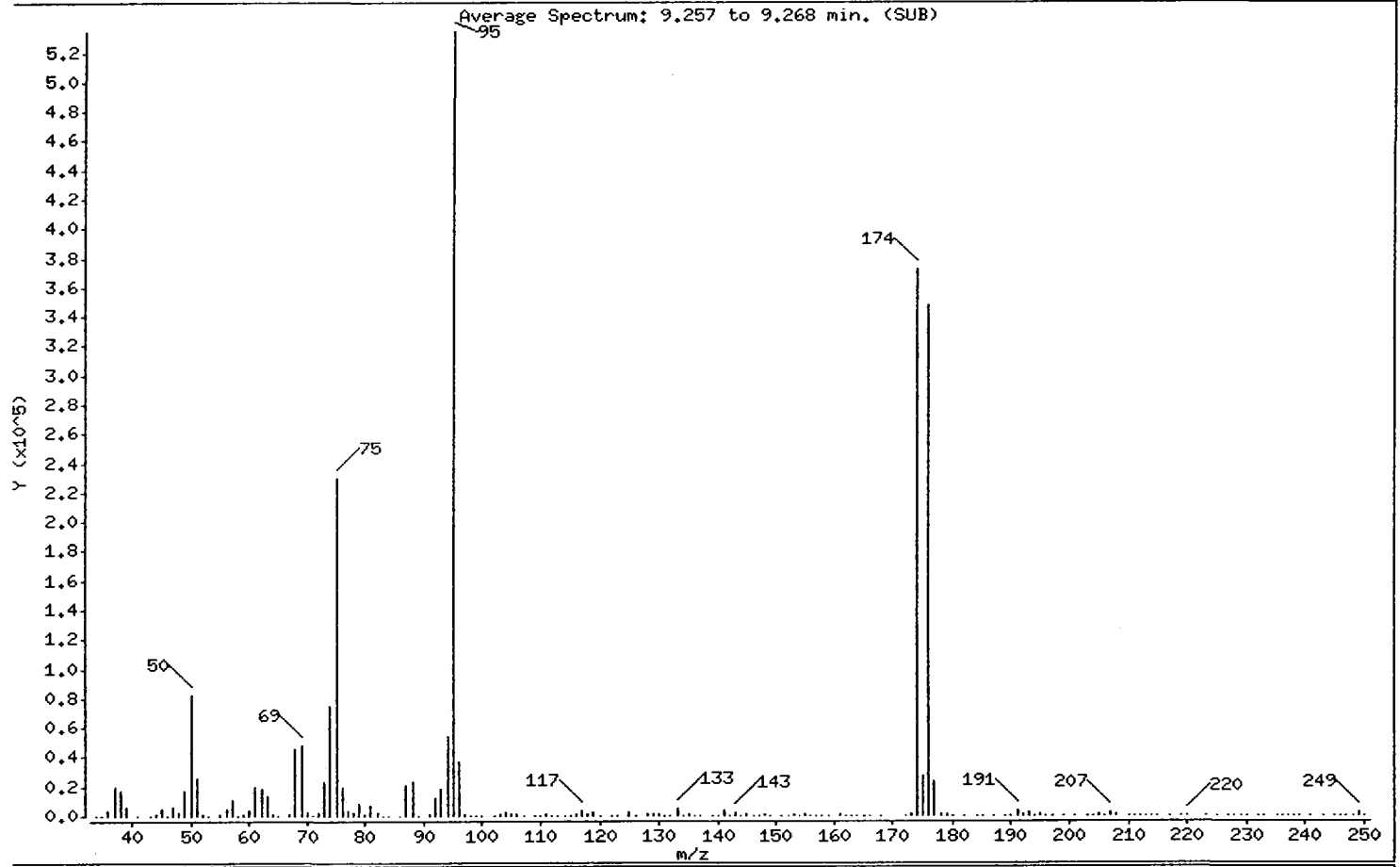
Instrument: nt7.i

Sample Info: BFB0330

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 | 15.35 |
| 75 | 30.00 - 66.00% of mass 95 | 43.10 |
| 96 | 5.00 - 9.00% of mass 95 | 6.88 |
| 173 | Less than 2.00% of mass 174 | 0.26 (0.38) |
| 174 | 50.00 - 101.00% of mass 95 | 69.59 |
| 175 | 4.00 - 9.00% of mass 174 | 5.01 (7.20) |
| 176 | 93.00 - 101.00% of mass 174 | 65.06 (93.48) |
| 177 | 5.00 - 9.00% of mass 176 | 4.36 (6.70) |

Date : 29-MAR-2010 12:06

Client ID: BFB0330

Instrument: nt7.i

Sample Info: BFB0330

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 03301001.d

Spectrum: Average Spectrum: 9.257 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 180

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|--------|--------|------|
| 34.00 | 56 | 84.00 | 304 | 137.00 | 2 | 194.00 | 592 |
| 35.00 | 257 | 86.00 | 577 | 139.00 | 181 | 195.00 | 682 |
| 36.00 | 3726 | 87.00 | 21216 | 140.00 | 216 | 196.00 | 133 |
| 37.00 | 20152 | 88.00 | 23408 | 141.00 | 3216 | 197.00 | 124 |
| 38.00 | 16664 | 89.00 | 273 | 142.00 | 111 | 199.00 | 110 |
| 39.00 | 6041 | 91.00 | 1029 | 143.00 | 3004 | 201.00 | 267 |
| 41.00 | 278 | 92.00 | 12467 | 144.00 | 241 | 203.00 | 478 |
| 43.00 | 61 | 93.00 | 17928 | 145.00 | 757 | 204.00 | 55 |
| 44.00 | 1460 | 94.00 | 53672 | 146.00 | 508 | 205.00 | 950 |
| 45.00 | 4439 | 95.00 | 534144 | 147.00 | 516 | 206.00 | 232 |
| 46.00 | 450 | 96.00 | 36760 | 148.00 | 991 | 207.00 | 2747 |
| 47.00 | 5646 | 97.00 | 740 | 149.00 | 296 | 208.00 | 770 |
| 48.00 | 2321 | 98.00 | 280 | 151.00 | 205 | 210.00 | 231 |
| 49.00 | 17552 | 99.00 | 108 | 152.00 | 392 | 211.00 | 64 |
| 50.00 | 81976 | 100.00 | 233 | 153.00 | 644 | 212.00 | 118 |
| 51.00 | 25616 | 102.00 | 258 | 154.00 | 121 | 213.00 | 103 |
| 52.00 | 1396 | 103.00 | 1039 | 155.00 | 1117 | 214.00 | 170 |
| 53.00 | 568 | 104.00 | 1875 | 156.00 | 100 | 215.00 | 154 |
| 55.00 | 1839 | 105.00 | 775 | 157.00 | 607 | 217.00 | 57 |
| 56.00 | 5474 | 106.00 | 1129 | 158.00 | 312 | 219.00 | 96 |
| 57.00 | 11612 | 107.00 | 222 | 159.00 | 605 | 220.00 | 200 |
| 58.00 | 212 | 109.00 | 109 | 161.00 | 693 | 223.00 | 137 |
| 59.00 | 681 | 110.00 | 368 | 162.00 | 51 | 225.00 | 92 |
| 60.00 | 3589 | 111.00 | 773 | 163.00 | 411 | 227.00 | 78 |
| 61.00 | 20232 | 112.00 | 503 | 164.00 | 324 | 228.00 | 154 |
| 62.00 | 18152 | 113.00 | 326 | 165.00 | 330 | 229.00 | 72 |
| 63.00 | 13600 | 114.00 | 255 | 166.00 | 123 | 230.00 | 45 |
| 64.00 | 1514 | 115.00 | 445 | 168.00 | 102 | 232.00 | 138 |
| 65.00 | 507 | 116.00 | 1212 | 172.00 | 571 | 233.00 | 414 |
| 67.00 | 937 | 117.00 | 3106 | 173.00 | 1403 | 235.00 | 261 |
| 68.00 | 44880 | 118.00 | 1698 | 174.00 | 371712 | 236.00 | 192 |
| 69.00 | 48024 | 119.00 | 3010 | 175.00 | 26752 | 237.00 | 219 |
| 70.00 | 3056 | 120.00 | 341 | 176.00 | 347456 | 238.00 | 51 |
| 71.00 | 183 | 122.00 | 140 | 177.00 | 23280 | 239.00 | 87 |
| 72.00 | 2873 | 123.00 | 194 | 178.00 | 1046 | 241.00 | 149 |

Date : 29-MAR-2010 12:06

Client ID: BFB0330

Instrument: nt7.i

Sample Info: BFB0330

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 03301001.d

Spectrum: Average Spectrum: 9.257 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 180

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|------|--------|------|--------|------|
| 73.00 | 23304 | 125.00 | 2189 | 179.00 | 1153 | 243.00 | 159 |
| 74.00 | 74832 | 126.00 | 327 | 180.00 | 302 | 245.00 | 39 |
| 75.00 | 230144 | 128.00 | 1254 | 182.00 | 143 | 246.00 | 31 |
| 76.00 | 19920 | 129.00 | 963 | 184.00 | 72 | 247.00 | 190 |
| 77.00 | 3772 | 130.00 | 1710 | 185.00 | 173 | 248.00 | 89 |
| 78.00 | 1912 | 131.00 | 542 | 187.00 | 36 | 249.00 | 2027 |
| 79.00 | 8605 | 132.00 | 429 | 189.00 | 378 | 250.00 | 189 |
| 80.00 | 1742 | 133.00 | 4316 | 190.00 | 159 | | |
| 81.00 | 7977 | 134.00 | 299 | 191.00 | 3268 | | |
| 82.00 | 1863 | 135.00 | 648 | 192.00 | 1170 | | |
| 83.00 | 502 | 136.00 | 418 | 193.00 | 2803 | | |

Date File: /chem1/nt7.i/30MARCH2010.b/03301001.d

Date : 29-MAR-2010 12:06

Client ID: BFB0330

Sample Info: BFB0330

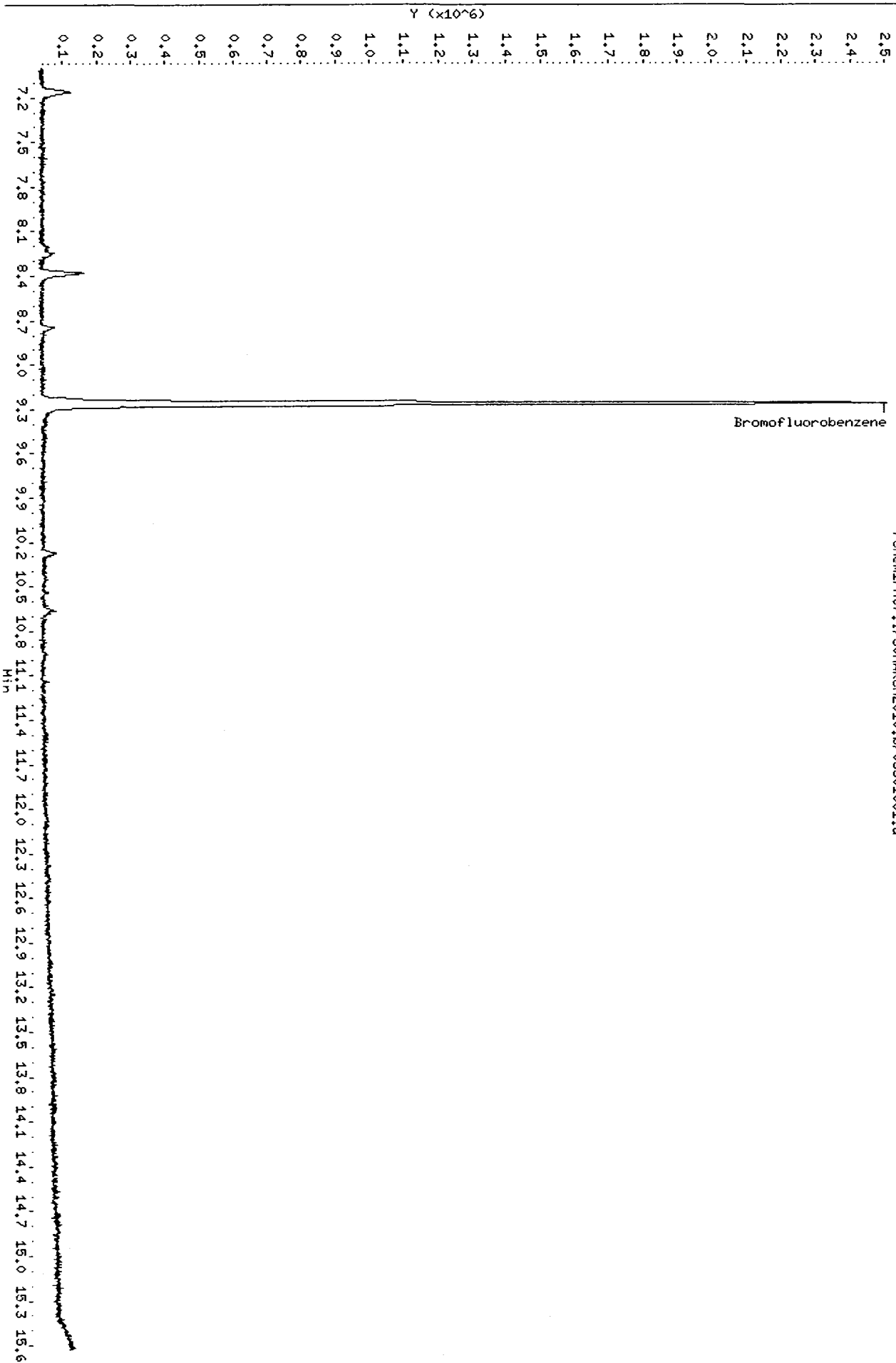
Instrument: nt7.i

Operator: PC

Column diameter: 0.18

Column phase: RTXVHS

/chem1/nt7.i/30MARCH2010.b/03301001.d



01100 : 5950

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-032910
 Page 1 of 1 METHOD BLANK

Lab Sample ID: MB-032910
 LIMS ID: 10-7709
 Matrix: Water
 Data Release Authorized:
 Reported: 03/31/10

QC Report No: QP69-Floyd/Snider
 Project: Lora Lake Apartment
 POS-LLA
 Date Sampled: NA
 Date Received: NA

Instrument/Analyst: NT7/PKC
 Date Analyzed: 03/29/10 14:05

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 | 102% |

PK
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301005.d
Report Date: 31-Mar-2010 10:25

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301005.d
Lab Smp Id: MB0330 Client Smp ID: MB0330
Inj Date : 29-MAR-2010 14:05
Operator : PC Inst ID: nt7.i
Smp Info : MB0330,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:25 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Vials bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.328 | 5.315 | (1.000) | 487441 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.327 | (1.000) | 192397 | 1089.38 | 1089.4 |
| 176 1,2-Dichloroethane | 62 | | | | | | |
| 8 Trichloroethene | 130 | | | | | | |
| 7 1,4-Difluorobenzene | 114 | 5.757 | 5.745 | (1.000) | 670171 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.199) | 777460 | 1019.97 | 1020.0 |
| 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: 29-MAR-2010 |
| Lab File ID: 03301005.d | Calibration Time: 12:45 |
| Lab Smp Id: MB0330 | Client Smp ID: MB0330 |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: PC | |
| Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m | |
| Misc Info: 10- | |

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 487441 | 11.62 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 670171 | 8.27 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: 30MARCH2010
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0330 Client Smp ID: MB0330
Level: LOW Operator: PC
Data Type: MS DATA SampleType: BLANK
SpikeList File: special.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1089.4 | 108.94 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1020.0 | 102.00 | 60-140 |

Data File: /chem1/nt7.i/30MARCH2010.b/03301005.d

Date : 29-MAR-2010 14:05

Client ID: MB0330

Sample Info: MB0330,10,10,0

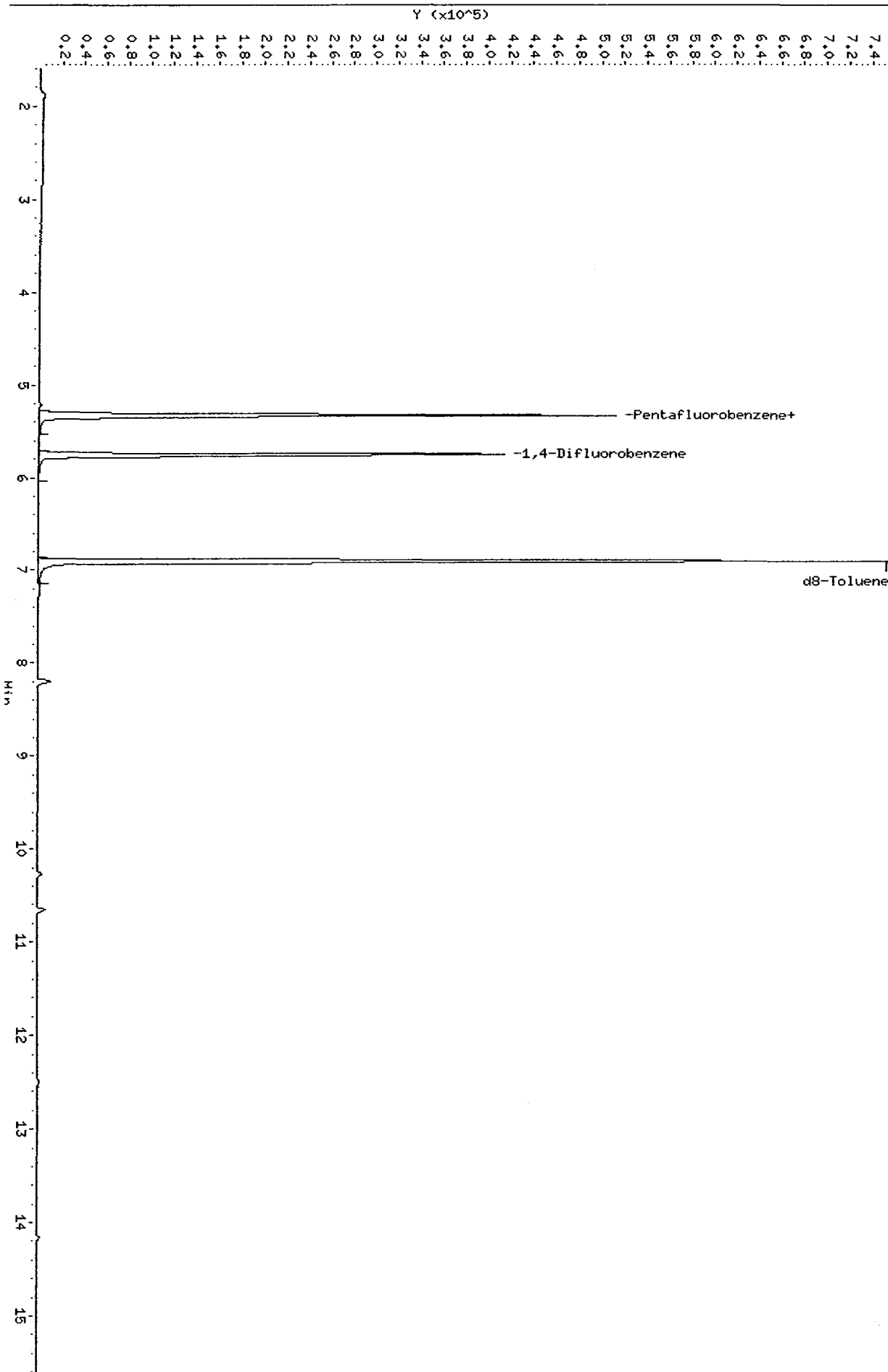
Column Phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/30MARCH2010.b/03301005.d



Analytical Resources, Inc.

SW8260C SIM
 Data file : /chem1/nt7.i/30MARCH2010.b/03301003.d
 Lab Smp Id: LCS0330 Client Smp ID: LCS0330
 Inj Date : 29-MAR-2010 13:12
 Operator : PC Inst ID: nt7.i
 Smp Info : LCS0330,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Meth Date : 31-Mar-2010 10:24 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | 1.553 | 1.554 | (0.292) | 250797 | 919.511 | 919.51 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.473) | 202532 | 904.563 | 904.56 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.294 | 3.294 | (0.618) | 219824 | 894.654 | 894.65 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.835) | 220695 | 879.698 | 879.70 |
| 6 Benzene | 78 | 5.210 | 5.209 | (0.907) | 906838 | 938.128 | 938.13 |
| 4 Pentafluorobenzene | 168 | 5.327 | 5.315 | (1.000) | 519204 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.000) | 187178 | 994.992 | 994.99 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.011) | 246240 | 1000.59 | 1000.6 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.994) | 232408 | 928.031 | 928.03 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 715267 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.201) | 826233 | 1015.62 | 1015.6 |
| 10 Tetrachloroethene | 166 | 7.260 | 7.260 | (1.264) | 226258 | 971.439 | 971.44 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.447 | 9.447 | (1.644) | 166055 | 1045.79 | 1045.8 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03301003.d
Lab Smp Id: LCS0330
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: LCS0330
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 519204 | 18.89 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 715267 | 15.55 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: Client SDG: 30MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0330 Client Smp ID: LCS0330
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 919.51 | 91.95 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1000.6 | 100.06 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 894.65 | 89.47 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 904.56 | 90.46 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 879.70 | 87.97 | 76-127 |
| 6 Benzene | 1000.0 | 938.13 | 93.81 | 75-121 |
| 8 Trichloroethene | 1000.0 | 928.03 | 92.80 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 971.44 | 97.14 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1045.8 | 104.58 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 994.99 | 99.50 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1015.6 | 101.56 | 60-140 |

Data File: /chem1/nt7.i/30HARCH2010.b/03301003.d

Date : 29-MAR-2010 13:12

Client ID: LCS0330

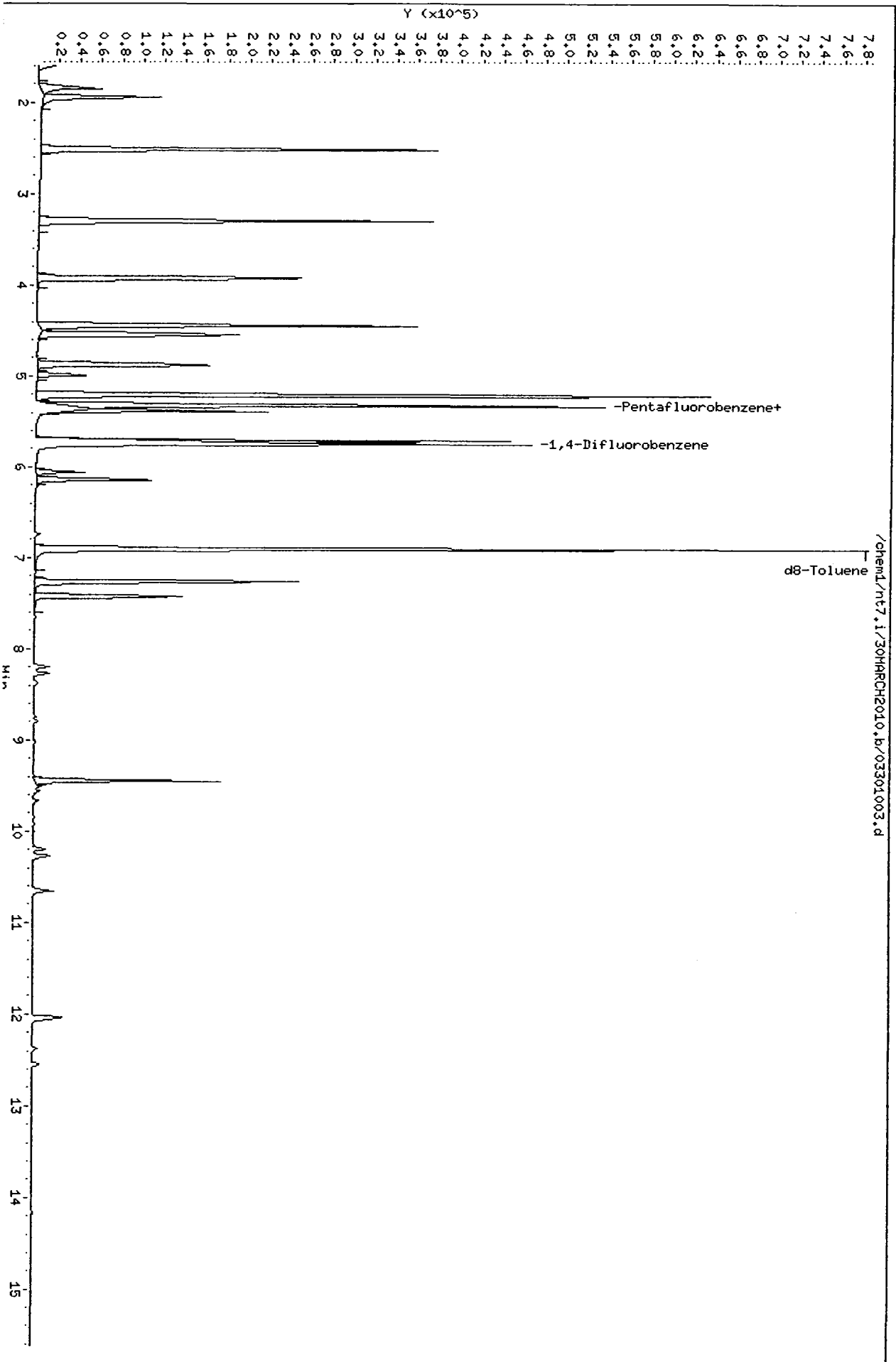
Sample Info: LCS0330,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



03301003

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301004.d
Report Date: 31-Mar-2010 10:24

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301004.d
Lab Smp Id: LCSD0330 Client Smp ID: LCSD0330
Inj Date : 29-MAR-2010 13:39
Operator : PC Inst ID: nt7.i
Smp Info : LCSD0330,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:24 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.551 | 1.554 | (0.292) | 276605 | 1088.37 | 1088.4 |
| 2 1,1-Dichloroethene | 96 | 2.520 | 2.519 | (0.474) | 222787 | 1067.87 | 1067.9 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.296 | 3.294 | (0.620) | 241591 | 1055.22 | 1055.2 |
| 3 cis-1,2-dichloroethene | 96 | 4.447 | 4.446 | (0.836) | 243868 | 1043.22 | 1043.2 |
| 6 Benzene | 78 | 5.211 | 5.209 | (0.907) | 997348 | 1056.99 | 1057.0 |
| 4 Pentafluorobenzene | 168 | 5.317 | 5.315 | (1.000) | 483790 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.329 | 5.327 | (1.002) | 184461 | 1052.33 | 1052.3 |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.013) | 269825 | 1176.69 | 1176.7 |
| 8 Trichloroethene | 130 | 5.712 | 5.711 | (0.994) | 255074 | 1043.44 | 1043.4 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 698198 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 805517 | 1014.36 | 1014.4 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 247099 | 1086.86 | 1086.9 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.446 | 9.447 | (1.644) | 177945 | 1148.07 | 1148.1 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03301004.d
 Lab Smp Id: LCSD0330
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 29-MAR-2010
 Calibration Time: 12:45
 Client Smp ID: LCSD0330
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 483790 | 10.78 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 698198 | 12.80 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.03 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 30MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCSD0330 Client Smp ID: LCSD0330
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 1088.4 | 108.84 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1176.7 | 117.67 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1055.2 | 105.52 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 1067.9 | 106.79 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1043.2 | 104.32 | 76-127 |
| 6 Benzene | 1000.0 | 1057.0 | 105.70 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1043.4 | 104.34 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1086.9 | 108.69 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1148.1 | 114.81 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1052.3 | 105.23 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1014.4 | 101.44 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301004.d

Date: 29-MAR-2010 13:39

Client ID: LCSD0330

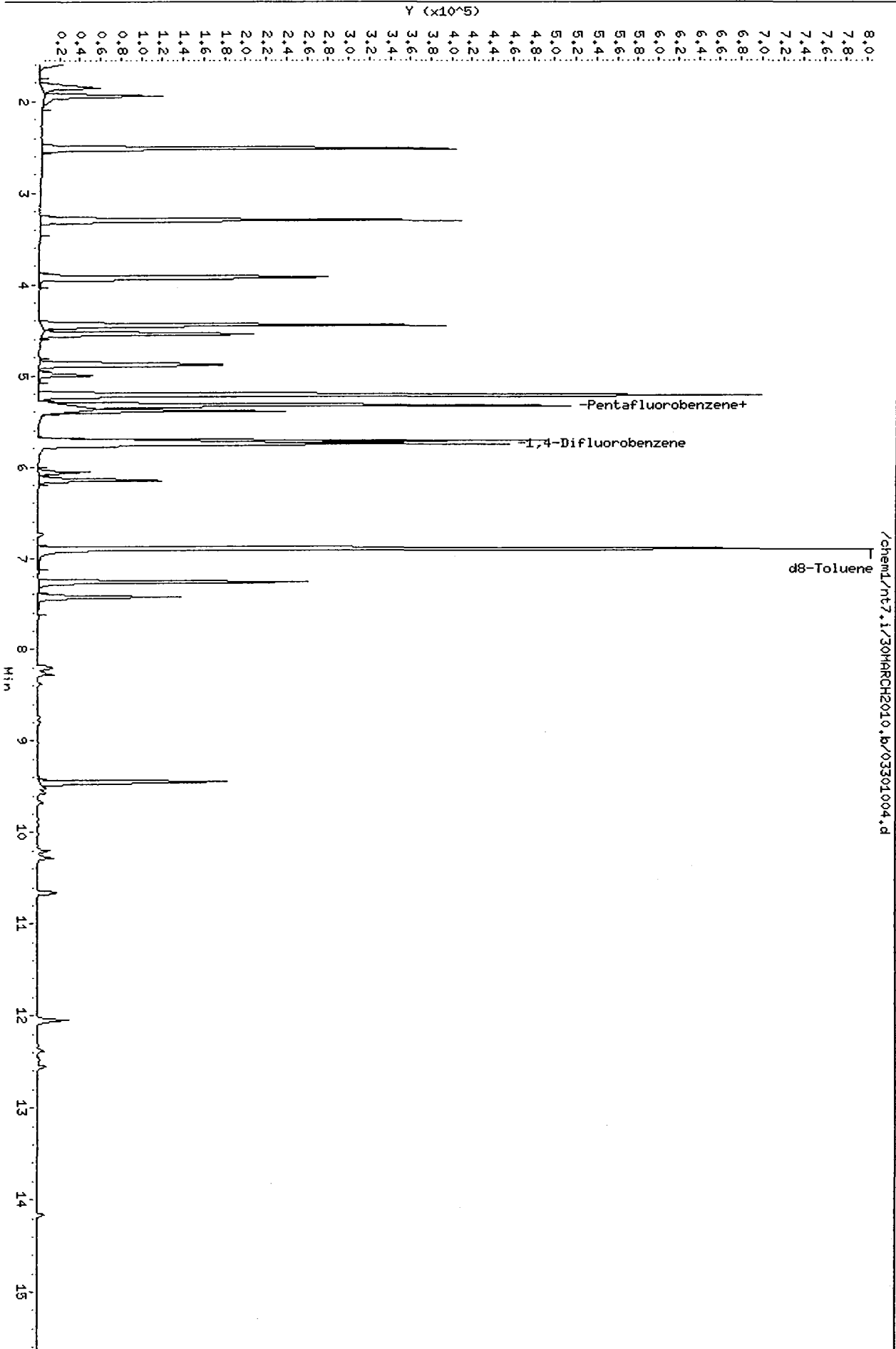
Sample Info: LCSD0330.10.10.0

Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



201003 : 0922


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QP69A

LIMS ID: 10-7709

Matrix: Water

Data Release Authorized: 

Reported: 03/31/10

QC Report No: QP69-Floyd/Snider

Project: Lora Lake Apartment

POS-LLA

Date Sampled: 03/25/10

Date Received: 03/25/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/29/10 19:56

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

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

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 105% |
| d8-Toluene | 102% |

PC
3/31/10

Data File: /chem1/nt7.i/30MARCH2010.b/03301018.d
Report Date: 31-Mar-2010 10:24

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301018.d
Lab Smp Id: QP69AMS Client Smp ID: CB31A032510GRAB MS
Inj Date : 29-MAR-2010 19:56
Operator : PC Inst ID: nt7.i
Smp Info : QP69AMS,10,10,0
Misc Info : 10-7709
Comment :
Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
Meth Date : 31-Mar-2010 10:24 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.291) | 248660 | 1009.91 | 1009.9 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.473) | 208225 | 1030.20 | 1030.2 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.306 | 3.294 | (0.621) | 221833 | 1000.12 | 1000.1 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.835) | 224573 | 991.614 | 991.61 |
| 6 Benzene | 78 | 5.210 | 5.209 | (0.905) | 937534 | 1089.66 | 1089.7 |
| * 4 Pentafluorobenzene | 168 | 5.327 | 5.315 | (1.000) | 468699 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.000) | 178755 | 1052.61 | 1052.6 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.011) | 265383 | 1194.59 | 1194.6 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.992) | 237177 | 1064.04 | 1064.0 |
| * 7 1,4-Difluorobenzene | 114 | 5.757 | 5.745 | (1.000) | 636642 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.199) | 736554 | 1017.20 | 1017.2 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.261) | 232284 | 1120.48 | 1120.5 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.446 | 9.447 | (1.641) | 179938 | 1273.18 | 1273.2 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03301018.d
Lab Smp Id: QP69AMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
Misc Info: 10-7709

Calibration Date: 29-MAR-2010
Calibration Time: 12:45
Client Smp ID: CB31A032510GRAB MS
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 468699 | 7.32 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 636642 | 2.85 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: QP69AMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: all.sub
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-7709

Client SDG: QP69
 Fraction: VOA
 Client Smp ID: CB31A032510GRAB 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 | 1009.9 | 100.99 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1194.6 | 119.46 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1000.1 | 100.01 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 1030.2 | 103.02 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 991.61 | 99.16 | 76-127 |
| 6 Benzene | 1000.0 | 1089.7 | 108.97 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1064.0 | 106.40 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1120.5 | 112.05 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1273.2 | 127.32 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1052.6 | 105.26 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1017.2 | 101.72 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301018.d

Date: 29-MAR-2010 19:56

Client ID: CB31A032510GRAB HS

Sample Info: QP69QHS,10,10,0

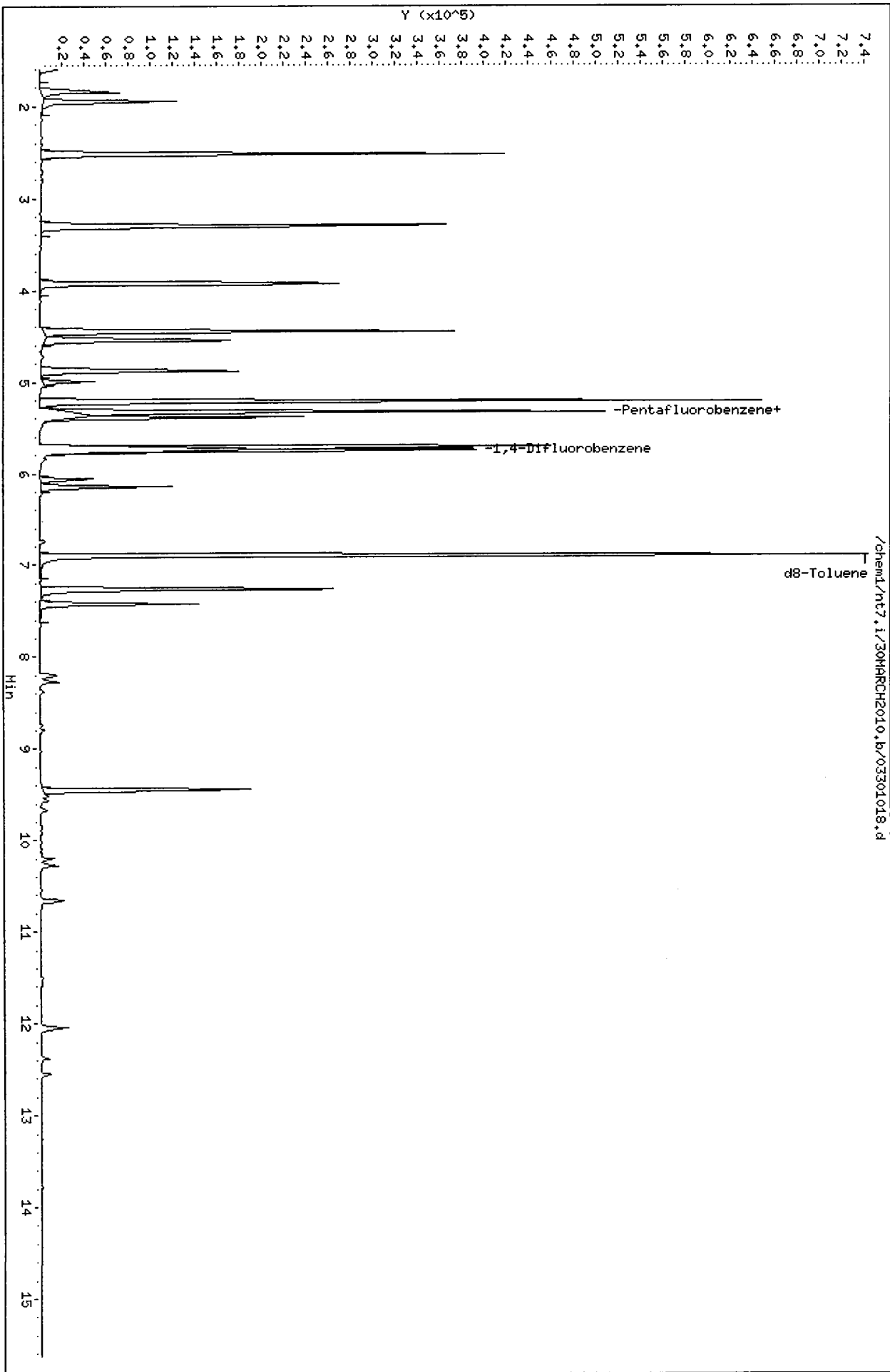
Page 4

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

Column phase: RTXVHS



QP69 : 00137

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A032510GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QP69A QC Report No: QP69-Floyd/Snider
LIMS ID: 10-7709 Project: Lora Lake Apartment
Matrix: Water POS-LLA
Data Release Authorized: *AB* Date Sampled: 03/25/10
Reported: 03/31/10 Date Received: 03/25/10

Instrument/Analyst: NT7/PKC Sample Amount: 10.0 mL
Date Analyzed: 03/29/10 20:23 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 | 102% |

REC
3/31/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/30MARCH2010.b/03301019.d
 Lab Smp Id: QP69AMSD Client Smp ID: CB31A032510GRAB MSD
 Inj Date : 29-MAR-2010 20:23
 Operator : PC Inst ID: nt7.i
 Smp Info : QP69AMSD,10,10,0
 Misc Info : 10-7709
 Comment :
 Method : /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Meth Date : 31-Mar-2010 10:24 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | 1.551 | 1.554 | (0.291) | 247139 | 1057.02 | 1057.0 |
| 2 1,1-Dichloroethene | 96 | 2.520 | 2.519 | (0.473) | 204683 | 1066.44 | 1066.4 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.296 | 3.294 | (0.618) | 219246 | 1040.93 | 1040.9 |
| 3 cis-1,2-dichloroethene | 96 | 4.447 | 4.446 | (0.835) | 220562 | 1025.60 | 1025.6 |
| 6 Benzene | 78 | 5.211 | 5.209 | (0.905) | 925200 | 1078.96 | 1079.0 |
| * 4 Pentafluorobenzene | 168 | 5.328 | 5.315 | (1.000) | 445071 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.327 | (1.000) | 173054 | 1073.14 | 1073.1 |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.011) | 256416 | 1215.49 | 1215.5 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.992) | 233214 | 1049.79 | 1049.8 |
| * 7 1,4-Difluorobenzene | 114 | 5.757 | 5.745 | (1.000) | 634500 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.901 | 6.903 | (1.199) | 735366 | 1018.99 | 1019.0 |
| 10 Tetrachloroethene | 166 | 7.258 | 7.260 | (1.261) | 228641 | 1106.62 | 1106.6 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.445 | 9.447 | (1.641) | 163839 | 1163.18 | 1163.2 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03301019.d
 Lab Smp Id: QP69AMSD
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-7709

Calibration Date: 29-MAR-2010
 Calibration Time: 12:45
 Client Smp ID: CB31A032510GRAB MSD
 Level: LOW
 Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 445071 | 1.91 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 634500 | 2.51 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.25 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: QP69AMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: all.sub
 Method File: /chem1/nt7.i/30MARCH2010.b/sim031810.m
 Misc Info: 10-7709

Client SDG: QP69
 Fraction: VOA
 Client Smp ID: CB31A032510GRAB 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 | 1057.0 | 105.70 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1215.5 | 121.55 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1040.9 | 104.09 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 1066.4 | 106.64 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1025.6 | 102.56 | 76-127 |
| 6 Benzene | 1000.0 | 1079.0 | 107.90 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1049.8 | 104.98 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1106.6 | 110.66 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1163.2 | 116.32 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1073.1 | 107.31 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1019.0 | 101.90 | 60-140 |

Data File: /chem1/nt7.1/30MARCH2010.b/03301019.d

Date : 29-MAR-2010 20:23

Client ID: CB31A0325106RAB HSD

Sample Info: QP69AHSD,10,10,0

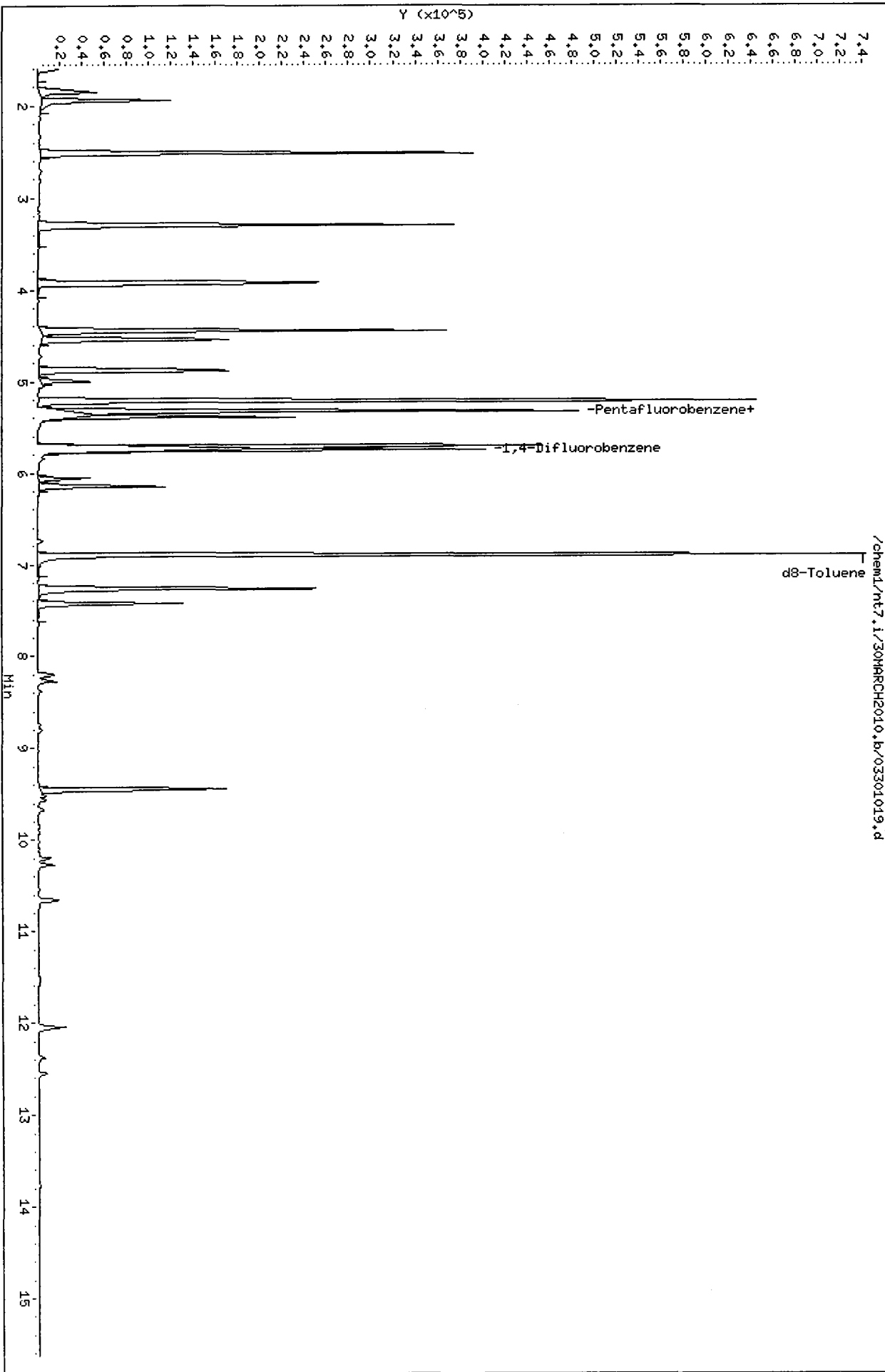
Column phase: RTXVHS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18

/chem1/nt7.1/30MARCH2010.b/03301019.d



QP69 : 00142

SIM Volatile Analysis
Run Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 3/18/10 Analysis: SIM VOA Analyst: PC
 GC Program: VC Column No: 850322 Column Type: RTXUMS
 Instrument Tune (.U or .CT.): 03181001 EM Voltage: 1835
 Calibration File: 03181011 Curve Date: 3/18/10

| IS/SS | Ical/Ccal | LCS/ICV |
|----------------|----------------|----------------|
| <u>V4621-2</u> | <u>V4624-4</u> | <u>V4614-2</u> |
| | | |
| | | |
| | | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/18MARCH2010.b

| Time | Filename | LabID | ClientID | Vial# | pH | DF |
|------|----------|------------|----------|---------|----------|------------------------|
| 1 | 0115 | 03181001.d | BFB0318 | BFB0318 | | 1 |
| 2 | 0211 | 03181002.d | 40000318 | | 1 5.32 | 5404611 5.75 7547557 |
| 3 | 0218 | 03181003.d | 20000318 | | 1 5.32 | 5379921 5.75 7520791 |
| 4 | 0304 | 03181004.d | 10000318 | | 1 5.32 | 5092671 5.75 7014091 |
| 5 | 0310 | 03181005.d | 5000318 | | 1 5.32 | 4856481 5.75 7099921 |
| 6 | 0407 | 03181006.d | 01000318 | 100 PPT | 1 5.32 | 4867061 5.75 7071231 |
| 7 | 0414 | 03181007.d | 00500318 | 50 PPT | 1 5.32 | 2108781 5.75 2942521 |
| 8 | 0501 | 03181008.d | 00200318 | 20 PPT | 1 5.32 | 4834151 5.75 6776881 |
| 9 | 0527 | 03181009.d | 40000318 | 4 PPB | 1 5.32 | 4560591 5.75 6097411 |
| 10 | 0554 | 03181010.d | 20000318 | 2 PPB | 1 5.32 | 4432951 5.75 6568891 |
| 11 | 0621 | 03181011.d | 10000318 | 1 PPB | 1 5.32 | 4357131 5.75 6189921 |
| 12 | 0647 | 03181012.d | 05000318 | 500 PPT | 1 5.32 | 4156011 5.75 6155491 |
| 13 | 0714 | 03181013.d | 1000318 | 1000318 | 1 5.32 | 4096801 5.75 6141791 |

[Handwritten signature]
 PC 3/22/10

Maintenance / Comments 50 ppt point misinjected - poor IS delivery

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM SCAL Client ID: _____

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

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: 3/18/10 Analysis Start Date: _____

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES NO / NA LCS / LCSD Recovery In Control? YES NO

Internal Standard Meets Criteria? YES NO / NA Surrogate Recovery In Control? YES NO

Special Analysis Criteria Met? YES NO / NA

ICal acceptable? YES / NO; Q flag applied? YES / NO / NA

CCal acceptable? YES / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

*50 point not used due to mechanical failure - IS not delivered properly.
1,2 dichloro ethane added to SIM method.*

Additional Details on Reverse: Yes / No

Analyst Signature: *Paul Engert* Date: 3/19/10

Reviewer's Signature: *[Signature]* Date: 3/19/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 3/30/10 Analysis: S/M VOA Analyst: PC
 GC Program: VC Column No: 850322 Column Type: HTXVMS
 Instrument Tune (.U or .CT.): 03301001 EM Voltage: 1871
 Calibration File: 03301002 Curve Date: 3/18/10

| IS/SS | Ical/Ccal | LCS/ICV |
|-------------------------|----------------|----------------|
| <u>44621-2 PC3/3/10</u> | <u>44624-2</u> | <u>44624-2</u> |
| <u>44621-2</u> | | |
| | | |
| | | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/30MARCH2010.b

| Time | Filename | LabID | ClientID | WT |
|---------|------------|----------|---------------------|-------------------------------|
| 1 1206 | 03301001.d | BFB0330 | BFB0330 | 0.00 |
| 2 1245 | 03301002.d | CC0330 | CC0330 | 1 5.32 497606 5.75 726697 |
| 3 1312 | 03301003.d | LCS0330 | LCS0330 | 1 5.33 519204 5.75 715267 |
| 4 1339 | 03301004.d | LCS00330 | LCS00330 | 1 5.32 481790 5.75 698198 |
| 5 1405 | 03301005.d | MB0330 | MB0330 | 1 5.33 487441 5.76 670171 |
| 6 1437 | 03301006.d | QP67R | Trip Blank | 1 5.33 454585 5.76 655784 |
| 7 1503 | 03301007.d | QP69B | TB032510 | 1 5.32 456756 5.75 654382 |
| 8 1530 | 03301008.d | Q022B | TB032810 | 1 5.33 455606 5.76 657384 |
| 9 1557 | 03301009.d | QP67J | MW-4 | 1 5.33 471894 5.76 647770 |
| 10 1623 | 03301010.d | QP67K | MW-5B | 1 5.33 473206 5.76 641576 |
| 11 1650 | 03301011.d | QP67L | MW-8 | 1 5.33 444503 5.76 644179 |
| 12 1716 | 03301012.d | QP67M | MW-10 | 1 5.33 438627 5.76 628528 |
| 13 1743 | 03301013.d | QP67N | MW-7 | 1 5.33 443000 5.76 638774 |
| 14 1810 | 03301014.d | QP67O | MW-3B | 1 5.33 459504 5.76 644931 |
| 15 1836 | 03301015.d | QP67P | MW-1B | 1 5.33 428868 5.76 621753 |
| 16 1903 | 03301016.d | QP67Q | MW-11 | 1 5.33 455872 5.76 620392 |
| 17 1930 | 03301017.d | QP69A | CB31A032510GRAB | 1 5.33 431275 5.76 614940 |
| 18 1956 | 03301018.d | QP69AMS | CB31A032510GRAB MS | 1 5.33 468699 5.76 636642 |
| 19 2023 | 03301019.d | QP69AMSD | CB31A032510GRAB MSD | 1 5.33 445071 5.76 634500 |
| 20 2050 | 03301020.d | QP69B | CB4857032510GRAB | 1 5.33 453606 5.76 612020 |
| 21 2116 | 03301021.d | QP69C | CB1032510GRAB | 1 5.33 438892 5.76 598574 |
| 22 2143 | 03301022.d | QP69D | CB101032510GRAB | 1 5.32 420095 5.75 602942 |
| 23 2209 | 03301023.d | Q022A | CB31A032910GRAB | 1 5.33 435261 5.75 586771 |
| 24 2236 | 03301024.d | Q022B | CB4857032910GRAB | 1 5.33 415408 5.76 568553 |
| 25 2303 | 03301025.d | Q022C | CB1032910GRAB | 1 5.33 395094 5.75 565599 |
| 26 2329 | 03301026.d | Q022D | CB100032910GRAB | 1 5.33 389406 5.75 558769 |

Maintenance / Comments

PC3/3/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: QP69 Client ID: Floyd/Snyder

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): SIM

Instrument: NT-3 NT-5 **NT-7** NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 20 Curve Date: 3/18/10 Analysis Start Date: 3/30/10

pH ≤ 2.0 **YES** / NO / NA Method Blank In Control? **YES** / NO

BFB Tune Meets Criteria? **YES** / NO / NA LCS / LCSD Recovery In Control? **YES** / NO

Internal Standard Meets Criteria? **YES** / NO / NA Surrogate Recovery In Control? **YES** / NO

Special Analysis Criteria Met? **YES** / NO / NA

ICal acceptable? **YES** / NO; Q flag applied? **YES** / NO / NA

CCal acceptable? **YES** / NO; Q flag applied? **YES** / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) **PB (2-4mm) E** LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: Paul Engert Date: 3/31/10

Reviewer's Signature: [Signature] Date: 3/30/10

TPHD Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MB-032910 | 83.2% | 0 |
| LCS-032910 | 78.8% | 0 |
| LCSD-032910 | 49.8%* | 1 |
| CB31A032510GRAB | 78.8% | 0 |
| CB31A032510GRAB MS | 72.2% | 0 |
| CB31A032510GRAB MSD | 78.1% | 0 |
| CB4857032510GRAB | 79.6% | 0 |
| CB1032510GRAB | 81.6% | 0 |
| CB101032510GRAB | 75.8% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(51-120)

(41-121)

Prep Method: SW3510C
Log Number Range: 10-7709 to 10-7712

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

Sample ID: CB31A032510GRAB
 MS/MSD

Lab Sample ID: QP69A
 LIMS ID: 10-7709
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 04/06/10

QC Report No: QP69-Floyd/Snider
 Project: Lora Lake Apartment
 POS-LLA
 Date Sampled: 03/25/10
 Date Received: 03/25/10

Date Extracted MS/MSD: 03/29/10
 Date Analyzed MS: 04/01/10 17:50
 MSD: 04/01/10 18:15
 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 | < 0.25 | 2.05 | 3.00 | 68.3% | 2.19 | 3.00 | 73.0% | 6.6% |

TPHD Surrogate Recovery

| | MS | MSD |
|-------------|-------|-------|
| o-Terphenyl | 72.2% | 78.1% |

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-032910
 LCS/LCSD

Lab Sample ID: LCS-032910
 LIMS ID: 10-7709
 Matrix: Water
 Data Release Authorized: *B*
 Reported: 04/06/10

QC Report No: QP69-Floyd/Snider
 Project: Lora Lake Apartment
 POS-LLA
 Date Sampled: 03/25/10
 Date Received: 03/25/10

Date Extracted LCS/LCSD: 03/29/10
 Date Analyzed LCS: 04/01/10 16:10
 LCSD: 04/01/10 16:35
 Instrument/Analyst LCS: FID/MS
 LCSD: FID/MS

Sample Amount LCS: 500 mL
 LCSD: 500 mL
 Final Extract Volume LCS: 1.0 mL
 LCSD: 1.0 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00

| Range | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------|------|--------------------|-----------------|------|---------------------|------------------|-------|
| Diesel | 2.06 | 3.00 | 68.7% | 1.43 | 3.00 | 47.7% | 36.1% |

TPHD Surrogate Recovery

| | LCS | LCSD |
|-------------|-------|-------|
| o-Terphenyl | 78.8% | 49.8% |

Results reported in mg/L
 RPD calculated using sample concentrations per SW846.

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QP98MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD/SNIDER

SDG No.: QP69

Project No.: LLA

Date Extracted: 03/29/10

Matrix: LIQUID

Date Analyzed : 04/01/10

Instrument ID : FID4A

Time Analyzed : 1545

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

| | CLIENT SAMPLE NO. ===== | LAB SAMPLE ID ===== | DATE ANALYZED ===== |
|----|-------------------------------|---------------------------|---------------------------|
| 01 | QP98LCSW1 | QP98LCSW1 | 04/01/10 |
| 02 | QP98LCSDW1 | QP98LCSDW1 | 04/01/10 |
| 03 | CB31A032510G | QP69A | 04/01/10 |
| 04 | CB31A032510G | QP69AMS | 04/01/10 |
| 05 | CB31A032510G | QP69AMSD | 04/01/10 |
| 06 | CB4857032510 | QP69B | 04/01/10 |
| 07 | CB1032510GRA | QP69C | 04/01/10 |
| 08 | CB101032510G | QP69D | 04/01/10 |

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER
 SDG No.: QP69 Project: LLA
 Instrument ID: FID4A GC Column: RTX-1
 Run Date: 01/22/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|---------------|------|
| | | | TERPH: 6.90 | | TRIAC: 9.93 | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRIAC RT # | |
| ===== | | | | | | |
| 01 | RT | RT | 01/22/10 | 1829 | 6.90 | 9.93 |
| 02 | IB | IB | 01/22/10 | 1855 | 6.89 | 9.93 |
| 03 | DIESEL 50 | DIESEL 50 | 01/22/10 | 1920 | 6.89 | 9.94 |
| 04 | DIESEL 100 | DIESEL 100 | 01/22/10 | 1945 | 6.89 | 9.92 |
| 05 | DIESEL 250 | DIESEL 250 | 01/22/10 | 2010 | 6.89 | 9.93 |
| 06 | DIESEL 500 | DIESEL 500 | 01/22/10 | 2035 | 6.90 | 9.94 |
| 07 | DIESEL 1000 | DIESEL 1000 | 01/22/10 | 2101 | 6.92 | 9.95 |
| 08 | DIESEL 2500 | DIESEL 2500 | 01/22/10 | 2126 | 6.95* | 9.93 |
| 09 | DIESEL ICV | DIESEL ICV | 01/22/10 | 2151 | 6.89 | 9.91 |

TERPH = o-terph QC LIMITS
 (+/- 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.: QP69 Project: LLA
 Instrument ID: FID4A GC Column: RTX-1
 Run Date: 01/22/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|---------------|--|
| | | | TERPH: 6.89 | | TRIAC: 9.94 | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRIAC RT # | |
| 01 | RT | 01/21/10 | 2119 | 6.89 | 9.94 | |
| 02 | IB | 01/21/10 | 2144 | 6.90 | 9.93 | |
| 03 | MOIL 100 | 01/22/10 | 0130 | 6.90 | 9.92 | |
| 04 | MOIL 250 | 01/22/10 | 0155 | 6.88 | 9.93 | |
| 05 | MOIL 500 | 01/22/10 | 0221 | 6.90 | 9.94 | |
| 06 | MOIL 1000 | 01/22/10 | 0245 | 6.90 | 9.95 | |
| 07 | MOIL 2500 | 01/22/10 | 0310 | 6.89 | 9.99 | |
| 08 | MOIL 5000 | 01/22/10 | 0335 | 6.89 | 10.03* | |
| 09 | MOIL ICV | 01/22/10 | 0401 | 6.91 | 9.93 | |

TERPH = o-terph QC LIMITS
 (+/- 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.: QP69

Project: LLA

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 04/01/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|--------------|-------------|----------|------------|------|------|
| | | TERPH: 6.82 | | TRAC: 9.82 | | |
| CLIENT | LAB | DATE | TIME | TERPH | TRAC | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT # | RT # | |
| 01 | RT | RT | 04/01/10 | 1405 | 6.82 | 9.82 |
| 02 | IB | IB | 04/01/10 | 1430 | 6.82 | 9.81 |
| 03 | LLA | DIESEL#1 | 04/01/10 | 1455 | 6.82 | 9.81 |
| 04 | LLA | MOIL#1 | 04/01/10 | 1519 | 6.83 | 9.82 |
| 05 | QP98MBW1 | QP98MBW1 | 04/01/10 | 1545 | 6.82 | 9.81 |
| 06 | QP98LCSW1 | QP98LCSW1 | 04/01/10 | 1610 | 6.82 | 9.81 |
| 07 | QP98LCSDW1 | QP98LCSDW1 | 04/01/10 | 1635 | 6.82 | 9.80 |
| 08 | ZZZZZ | ZZZZZ | 04/01/10 | 1700 | 6.82 | 9.81 |
| 09 | CB31A032510G | QP69A | 04/01/10 | 1725 | 6.82 | 9.82 |
| 10 | CB31A032510G | QP69AMS | 04/01/10 | 1750 | 6.82 | 9.81 |
| 11 | CB31A032510G | QP69AMSD | 04/01/10 | 1815 | 6.82 | 9.81 |
| 12 | CB4857032510 | QP69B | 04/01/10 | 1840 | 6.82 | 9.81 |
| 13 | CB1032510GRA | QP69C | 04/01/10 | 1905 | 6.82 | 9.81 |
| 14 | CB101032510G | QP69D | 04/01/10 | 1930 | 6.82 | 9.81 |
| 15 | ZZZZZ | ZZZZZ | 04/01/10 | 1955 | | |
| 16 | LLA | DIESEL#2 | 04/01/10 | 2021 | 6.82 | 9.82 |
| 17 | LLA | MOIL#2 | 04/01/10 | 2046 | 6.83 | 9.82 |

TERPH = o-terph
TRAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

TPHD Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69


prepared
by

Analytical Resources, Inc.

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

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

QC Report No: QP69-Floyd/Snider
Project: Lora Lake Apartment
POS-LLA

Data Release Authorized: 
Reported: 04/06/10

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|---|-----------------|-------------------|-------------|---|---------------------|----------------------------------|
| MB-032910 10-7709 | Method Blank HC ID: --- | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 83.2% |
| QP69A 10-7709 | CB31A032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.91 78.8% |
| QP69B 10-7710 | CB4857032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.61 79.6% |
| QP69C 10-7711 | CB1032510GRAB HC ID: --- | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 81.6% |
| QP69D 10-7712 | CB101032510GRAB HC ID: MOTOR OIL | 03/29/10 | 04/01/10 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.57 75.8% |

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.

Mr 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a010.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: QP69A
Client ID: CB31A032510GRAB
Injection: 01-APR-2010 17:25

Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.207 | 0.010 | 374 | 225 | GAS (Tol-C12) | 64755 | 8 |
| C8 | 2.501 | -0.004 | 137 | 70 | DIESEL (C12-C24) | 1052088 | 93 |
| C10 | 3.781 | 0.000 | 653 | 306 | M.OIL (C24-C38) | 4251084 | 457 |
| C12 | 4.696 | 0.003 | 641 | 1357 | AK-102 (C10-C25) | 1292997 | 102 |
| C14 | 5.424 | 0.002 | 389 | 179 | AK-103 (C25-C36) | 3798903 | 550 |
| C16 | 6.058 | -0.001 | 954 | 770 | | | |
| C18 | 6.652 | -0.009 | 1787 | 2003 | | | |
| C20 | 7.250 | 0.000 | 5627 | 9189 | | | |
| C22 | 7.798 | -0.002 | 13735 | 7996 | | | |
| C24 | 8.305 | -0.008 | 25381 | 26967 | | | |
| C25 | 8.555 | -0.006 | 31890 | 55881 | | | |
| C26 | 8.795 | -0.009 | 34447 | 35245 | | | |
| C28 | 9.289 | -0.008 | 37003 | 82512 | | | |
| C32 | 10.310 | -0.006 | 35409 | 41626 | | | |
| C34 | 10.815 | -0.010 | 30230 | 59879 | BUNKERC (C10-C38) | 5341505 | 810 |
| Filter Peak | 12.870 | 0.005 | 2725 | 1724 | | | |
| C36 | 11.316 | -0.008 | 19946 | 29430 | | | |
| C38 | 11.810 | 0.003 | 8928 | 5500 | | | |
| C40 | 12.288 | 0.006 | 4750 | 6507 | | | |
| o-terph | 6.820 | -0.002 | 504124 | 489474 | JET-A (C10-C18) | 135659 | 15 |
| Triacon Surr | 9.817 | -0.001 | 519815 | 567532 | | | |

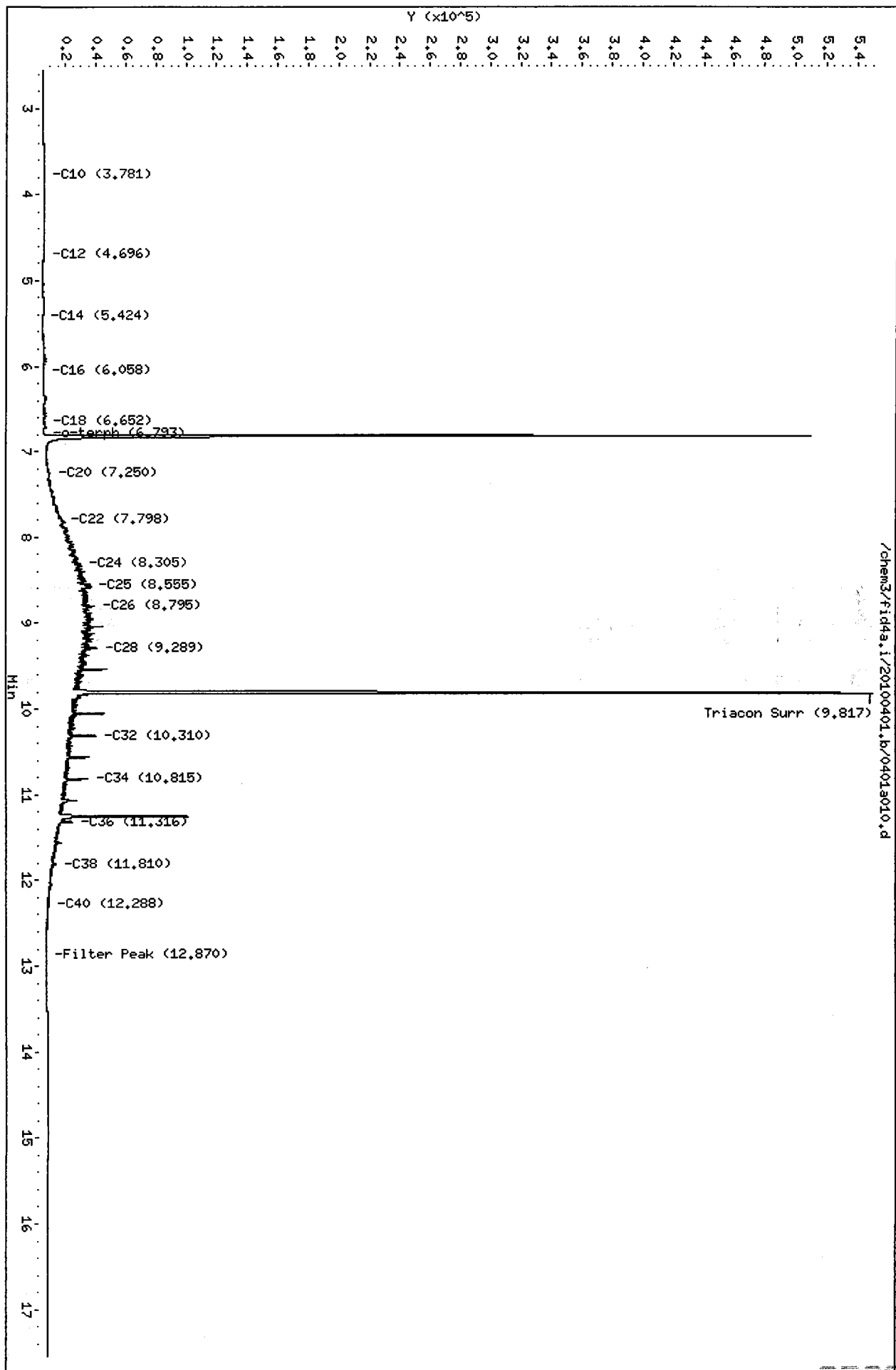
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
 NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 489474 | 35.5 | 78.8 |
| Triacontane | 567532 | 38.6 | 85.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a010.d
Date : 01-APR-2010 17:25
Client ID: CB31A032510GRAB
Sample Info: QP69A
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

ms 4/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a013.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP69B
Client ID: CB4857032510GRAB
Injection: 01-APR-2010 18:40

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.192 | -0.005 | 456 | 858 | GAS (Tol-C12) | 60881 | 8 |
| C8 | 2.491 | -0.014 | 150 | 135 | DIESEL (C12-C24) | 713433 | 63 |
| C10 | 3.788 | 0.006 | 581 | 274 | M.OIL (C24-C38) | 2833987 | 305 |
| C12 | 4.693 | 0.000 | 710 | 1246 | AK-102 (C10-C25) | 919061 | 73 |
| C14 | 5.437 | 0.015 | 455 | 1343 | AK-103 (C25-C36) | 2512069 | 364 |
| C16 | 6.059 | -0.001 | 1016 | 896 | | | |
| C18 | 6.654 | -0.008 | 1755 | 2104 | | | |
| C20 | 7.254 | 0.004 | 4067 | 5348 | | | |
| C22 | 7.795 | -0.005 | 9575 | 10799 | | | |
| C24 | 8.306 | -0.007 | 16886 | 13939 | | | |
| C25 | 8.551 | -0.009 | 22071 | 21625 | | | |
| C26 | 8.816 | 0.011 | 21125 | 26329 | | | |
| C28 | 9.288 | -0.010 | 23800 | 39041 | | | |
| C32 | 10.310 | -0.006 | 21490 | 37888 | | | |
| C34 | 10.817 | -0.009 | 18436 | 38170 | BUNKERC (C10-C38) | 3585153 | 544 |
| Filter Peak | 12.852 | -0.013 | 2419 | 3527 | | | |
| C36 | 11.314 | -0.011 | 13422 | 24409 | | | |
| C38 | 11.810 | 0.002 | 5764 | 5512 | | | |
| C40 | 12.276 | -0.006 | 3120 | 2082 | | | |
| o-terph | 6.818 | -0.004 | 434049 | 494617 | JET-A (C10-C18) | 138346 | 15 |
| Triacon Surr | 9.813 | -0.005 | 513295 | 544407 | | | |

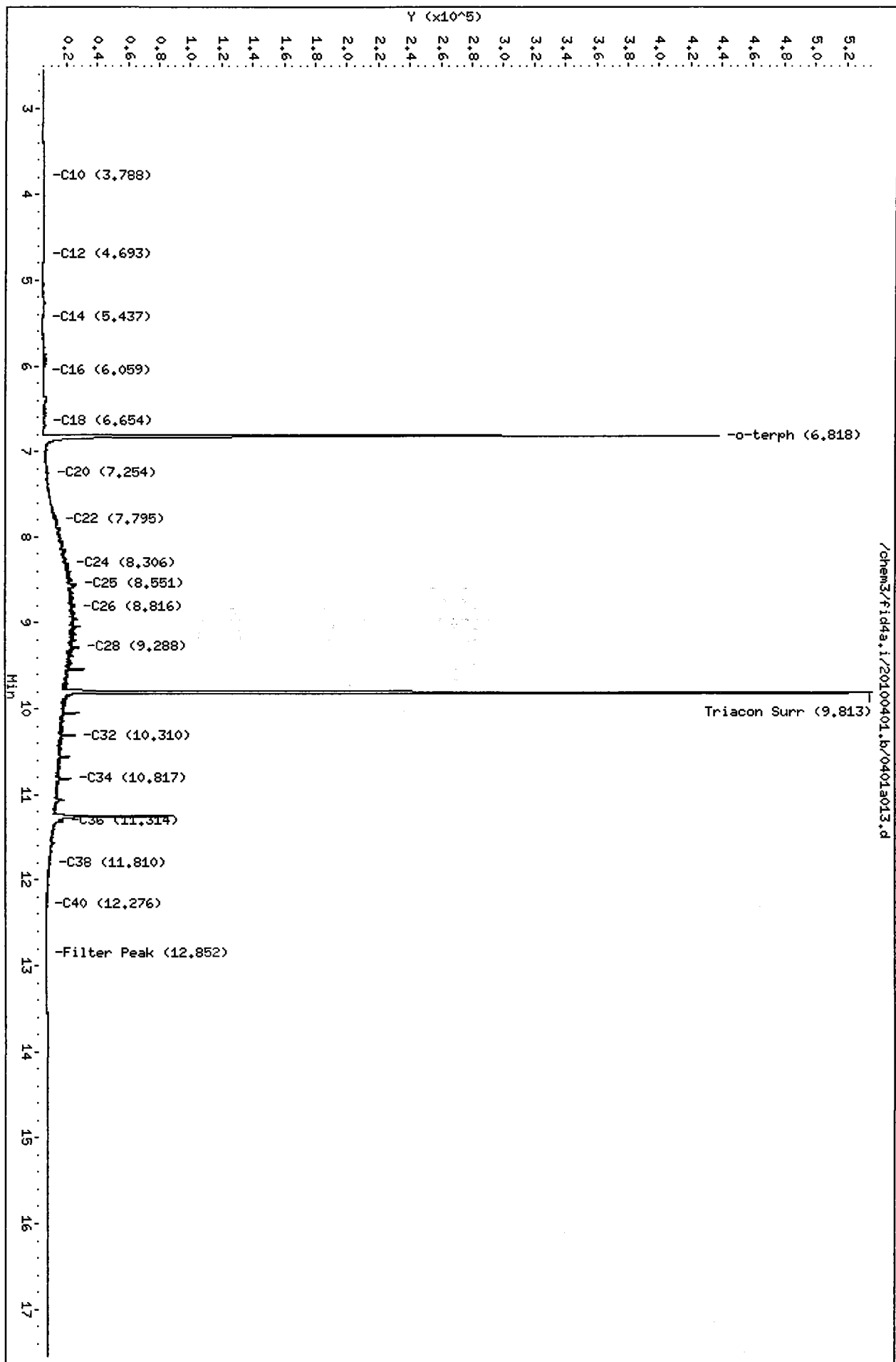
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 494617 | 35.8 | 79.6 |
| Triacotane | 544407 | 37.0 | 82.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a013.d
Date : 01-APR-2010 18:40
Client ID: CB4857032510CRAB
Sample Info: QP69B
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

Handwritten: 4/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a014.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP69C
Client ID: CB1032510GRAB
Injection: 01-APR-2010 19:05

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.187 | -0.010 | 472 | 1122 | GAS (Tol-C12) | 59374 | 8 |
| C8 | 2.511 | 0.006 | 149 | 209 | DIESEL (C12-C24) | 173913 | 15 |
| C10 | 3.770 | -0.012 | 579 | 945 | M.OIL (C24-C38) | 418026 | 45 |
| C12 | 4.690 | -0.003 | 621 | 315 | AK-102 (C10-C25) | 226594 | 18 |
| C14 | 5.394 | -0.028 | 584 | 1283 | AK-103 (C25-C36) | 362321 | 52 |
| C16 | 6.046 | -0.014 | 1002 | 1615 | | | |
| C18 | 6.662 | 0.000 | 1223 | 2584 | | | |
| C20 | 7.257 | 0.007 | 1415 | 2591 | | | |
| C22 | 7.792 | -0.008 | 1410 | 1758 | | | |
| C24 | 8.309 | -0.004 | 1843 | 1327 | | | |
| C25 | 8.560 | -0.001 | 2183 | 1123 | | | |
| C26 | 8.802 | -0.003 | 2063 | 1453 | | | |
| C28 | 9.295 | -0.003 | 2891 | 4155 | | | |
| C32 | 10.310 | -0.006 | 1479 | 1140 | | | |
| C34 | 10.828 | 0.002 | 5126 | 8174 | BUNKERC (C10-C38) | 628853 | 95 |
| Filter Peak | 12.860 | -0.004 | 1732 | 2298 | | | |
| C36 | 11.333 | 0.008 | 7120 | 16611 | | | |
| C38 | 11.801 | -0.006 | 1138 | 1178 | | | |
| C40 | 12.277 | -0.004 | 1242 | 1542 | | | |
| o-terph | 6.818 | -0.004 | 392690 | 507064 | JET-A (C10-C18) | 109709 | 12 |
| Triacon Surr | 9.811 | -0.007 | 520447 | 596325 | | | |

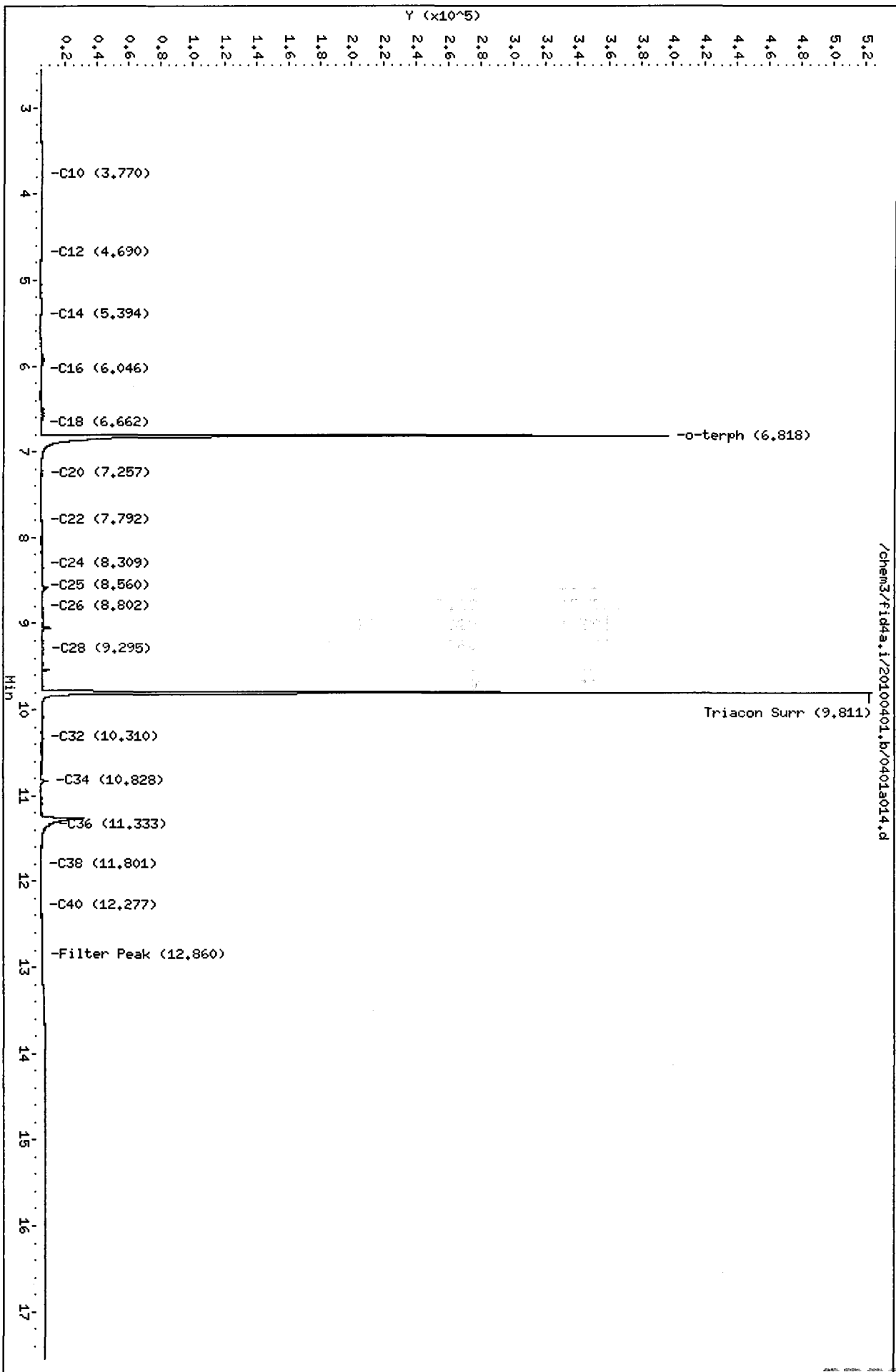
Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 507064 | 36.7 | 81.6 |
| Triacontane | 596325 | 40.6 | 90.2 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a014.d
Date : 01-APR-2010 19:05
Client ID: CB1032510CRAB
Sample Info: QP63C
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

M 4/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a015.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: QP69D
Client ID: CB101032510GRAB
Injection: 01-APR-2010 19:30

Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.205 | 0.008 | 433 | 650 | GAS (Tol-C12) | 57847 | 7 |
| C8 | 2.519 | 0.014 | 173 | 547 | DIESEL (C12-C24) | 666570 | 59 |
| C10 | 3.794 | 0.012 | 569 | 281 | M.OIL (C24-C38) | 2632911 | 283 |
| C12 | 4.710 | 0.017 | 600 | 956 | AK-102 (C10-C25) | 846547 | 67 |
| C14 | 5.444 | 0.022 | 340 | 375 | AK-103 (C25-C36) | 2327907 | 337 |
| C16 | 6.060 | 0.001 | 747 | 780 | | | |
| C18 | 6.658 | -0.004 | 1365 | 2021 | | | |
| C20 | 7.255 | 0.004 | 3912 | 6065 | | | |
| C22 | 7.798 | -0.002 | 9444 | 10685 | | | |
| C24 | 8.317 | 0.004 | 15625 | 12498 | | | |
| C25 | 8.561 | 0.000 | 19293 | 8479 | | | |
| C26 | 8.807 | 0.002 | 19320 | 10430 | | | |
| C28 | 9.290 | -0.007 | 22576 | 29694 | | | |
| C32 | 10.305 | -0.010 | 21195 | 37028 | | | |
| C34 | 10.816 | -0.010 | 18057 | 33865 | BUNKERC (C10-C38) | 3333921 | 505 |
| Filter Peak | 12.855 | -0.010 | 2359 | 3277 | | | |
| C36 | 11.310 | -0.015 | 12774 | 24933 | | | |
| C38 | 11.807 | 0.000 | 5662 | 9173 | | | |
| C40 | 12.283 | 0.001 | 3064 | 4109 | | | |
| o-terph | 6.818 | -0.004 | 402441 | 470717 | JET-A (C10-C18) | 112523 | 12 |
| Triacon Surr | 9.812 | -0.006 | 526897 | 522102 | | | |

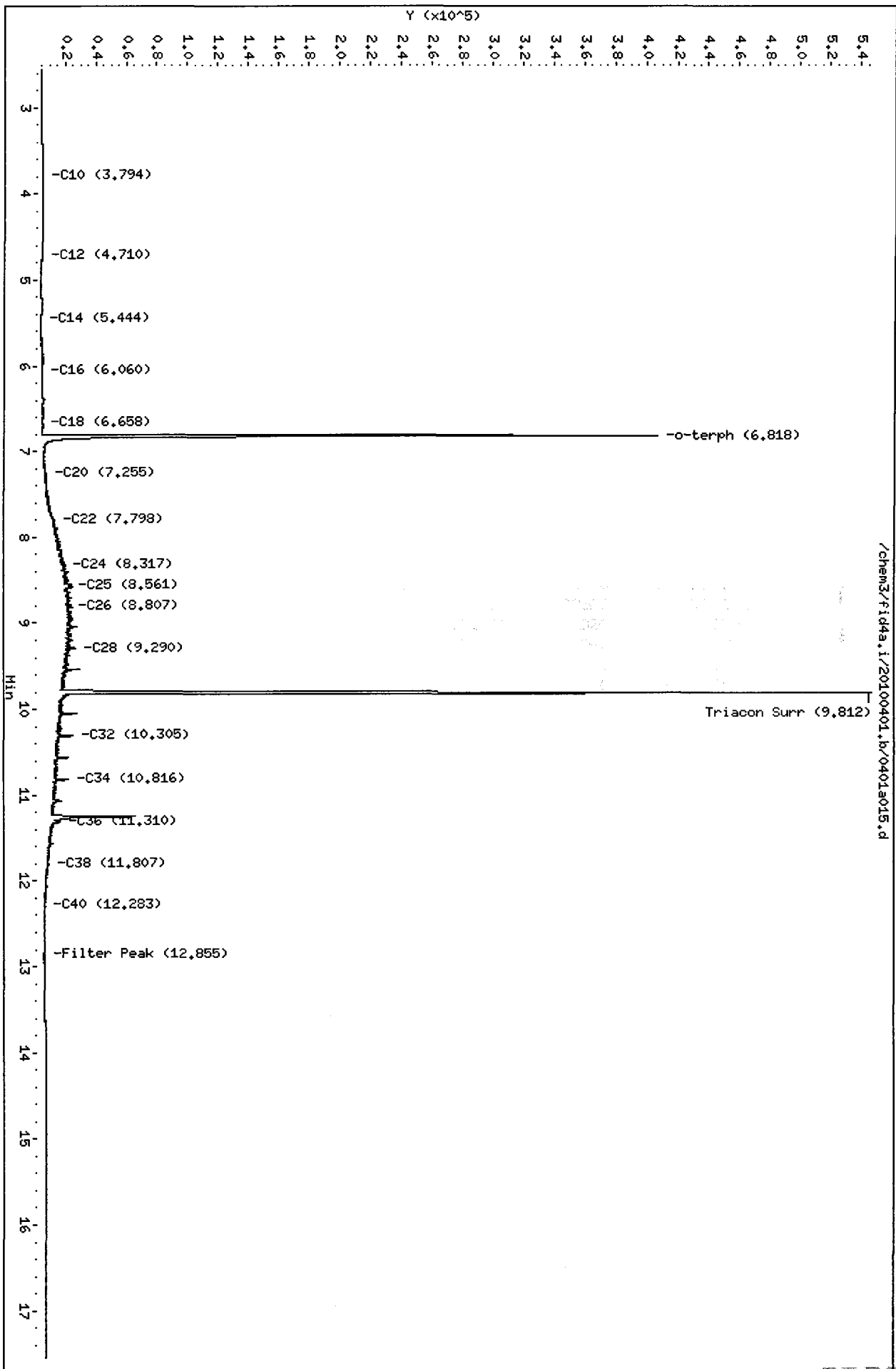
Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 470717 | 34.1 | 75.8 |
| Triacontane | 522102 | 35.5 | 79.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a015.d
Date : 01-APR-2010 19:30
Client ID: CE101032510GRAB
Sample Info: QP69D
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 03/25/10

ARI Job: QP69
Project: Lora Lake Apartment
POS-LLA

| ARI ID | Client ID | Samp Amt | Final Vol | Prep Date |
|---------------------|------------------|-------------|--------------|--------------|
| 10-7709-032910MB1 | Method Blank | 500 mL | 1.00 mL | 03/29/10 |
| 10-7709-032910LCS1 | Lab Control | 500 mL | 1.00 mL | 03/29/10 |
| 10-7709-032910LCSD1 | Lab Control Dup | 500 mL | 1.00 mL | 03/29/10 |
| 10-7709-QP69A | CB31A032510GRAB | 500 mL | 1.00 mL | 03/29/10 |
| 10-7709-QP69AMS | CB31A032510GRAB | 500 mL | 1.00 mL | 03/29/10 |
| 10-7709-QP69AMSD | CB31A032510GRAB | 500 mL | 1.00 mL | 03/29/10 |
| 10-7710-QP69B | CB4857032510GRAB | 500 mL | 1.00 mL | 03/29/10 |
| 10-7711-QP69C | CB1032510GRAB | 500 mL | 1.00 mL | 03/29/10 |
| 10-7712-QP69D | CB101032510GRAB | 500 mL | 1.00 mL | 03/29/10 |

TPHD Analysis
Standard Raw Data

prepared
for

Floyd/Snyder

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD/SNIDER

Instrument: FID4A.I

Project: LLA

Calibration Date: 22-JAN-2010

SDG No.: QP69

| Diesel Range | RF1 50 | RF2 100 | RF3 250 | RF4 500 | RF5 1000 | RF6 2500 | Ave RF | %RSD |
|--------------|-----------|------------|------------|------------|-------------|-------------|--------|------|
| WA Diesel | 11672 | 12095 | 10925 | 11235 | 10648 | 11632 | 11368 | 4.7 |
| AK Diesel | 12995 | 13485 | 12117 | 12419 | 11856 | 12914 | 12631 | 4.8 |
| OR Diesel | 13538 | 13809 | 12259 | 12518 | 11943 | 12991 | 12843 | 5.7 |
| o-Terph | 12642 | 13813 | 13239 | 13959 | 13642 | 15546 | 13807 | 7.1 |

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

Quant Ranges : WA Diesel C12-C24 (4.732-8.398)
 AK Diesel C10-C25 (3.859-8.649)
 OR Diesel C10-C28 (3.859-9.401)

Calibration Files Analysis Time

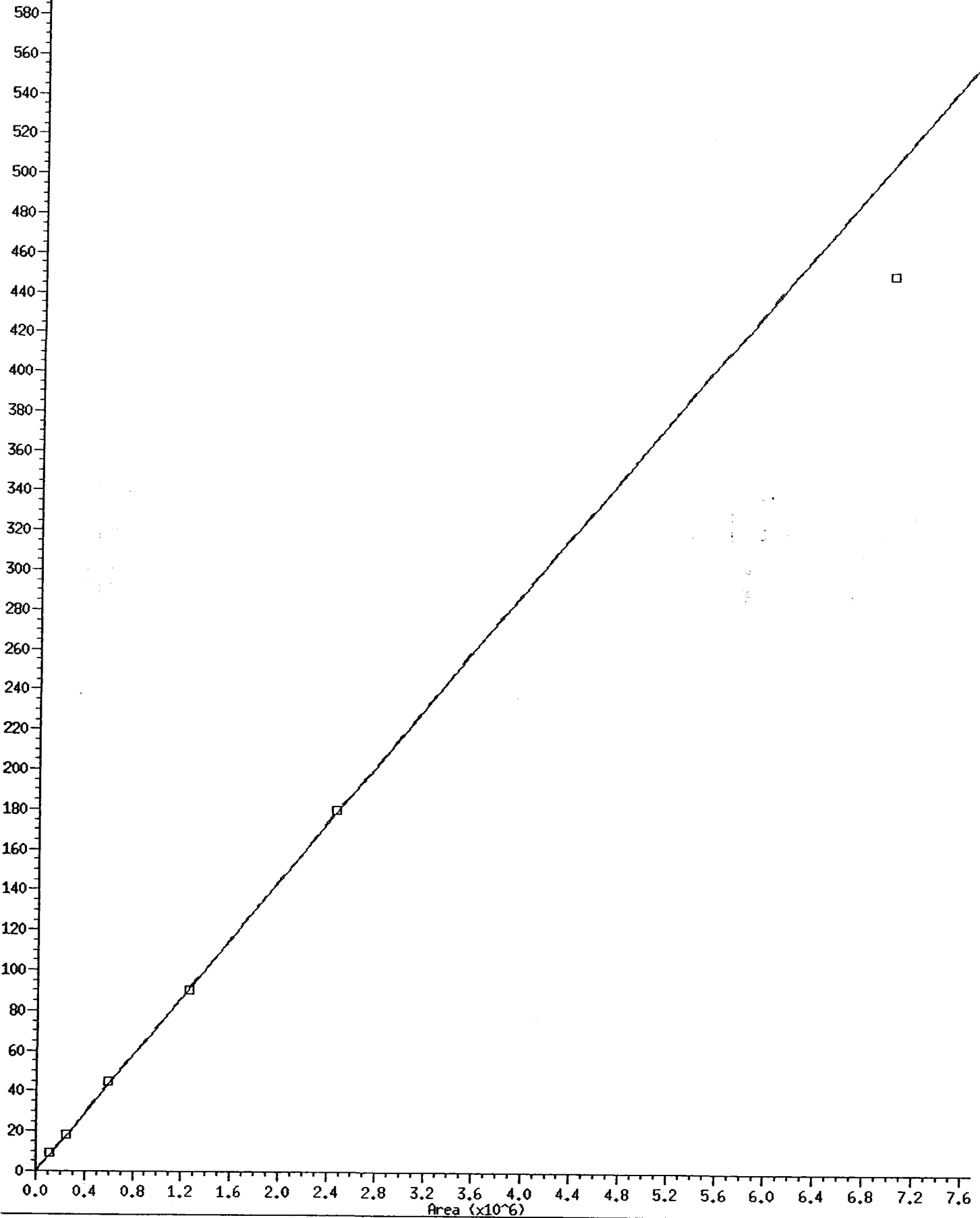
| | |
|------------|-------------------|
| 0122a005.d | 22-JAN-2010 19:20 |
| 0122a006.d | 22-JAN-2010 19:45 |
| 0122a007.d | 22-JAN-2010 20:10 |
| 0122a008.d | 22-JAN-2010 20:35 |
| 0122a009.d | 22-JAN-2010 21:01 |
| 0122a010.d | 22-JAN-2010 21:26 |

* 8 o-terph

Curve Type: Averaged By-Response

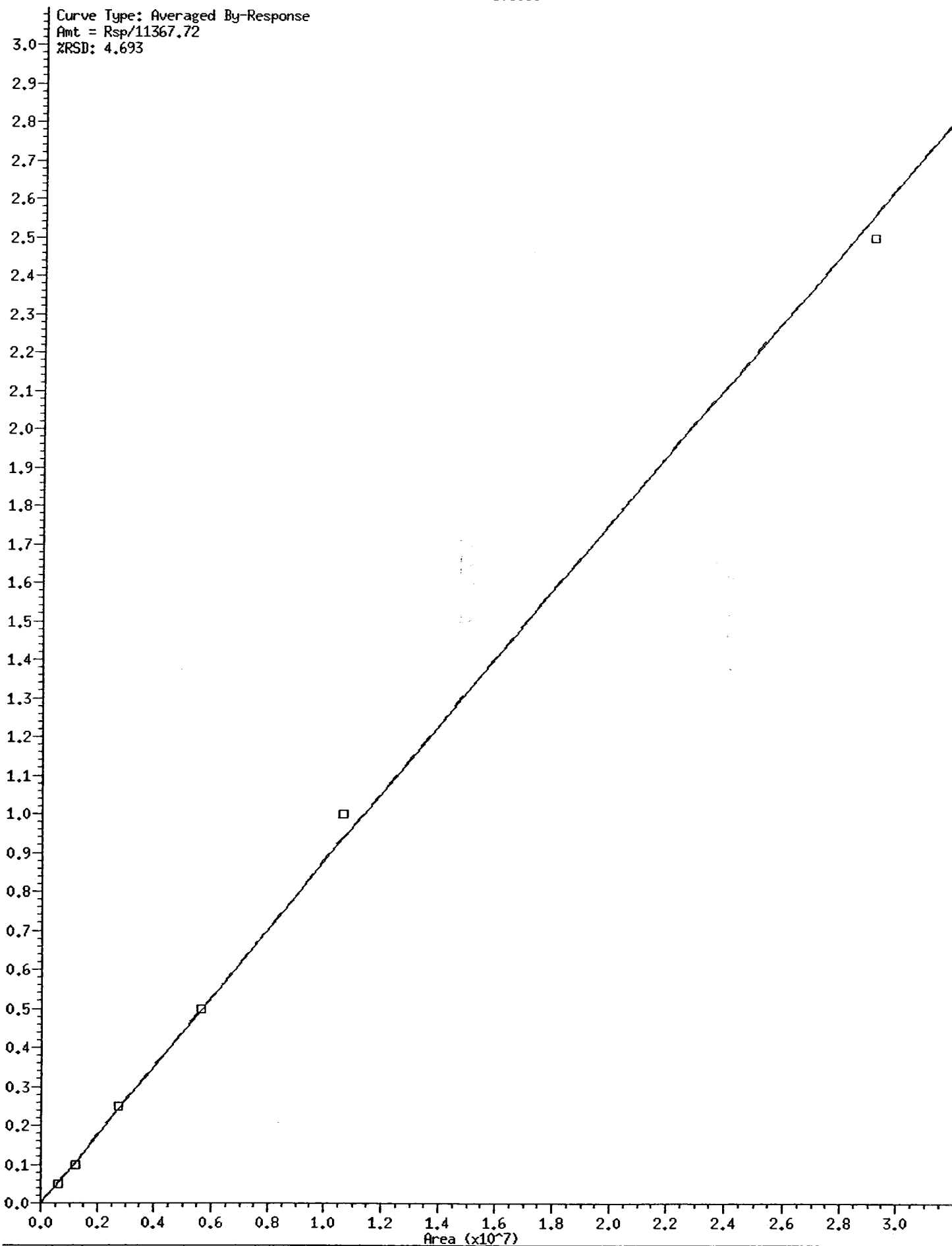
Amt = Rsp/13806.62

ZRSD: 7.062



31 NW Diesel

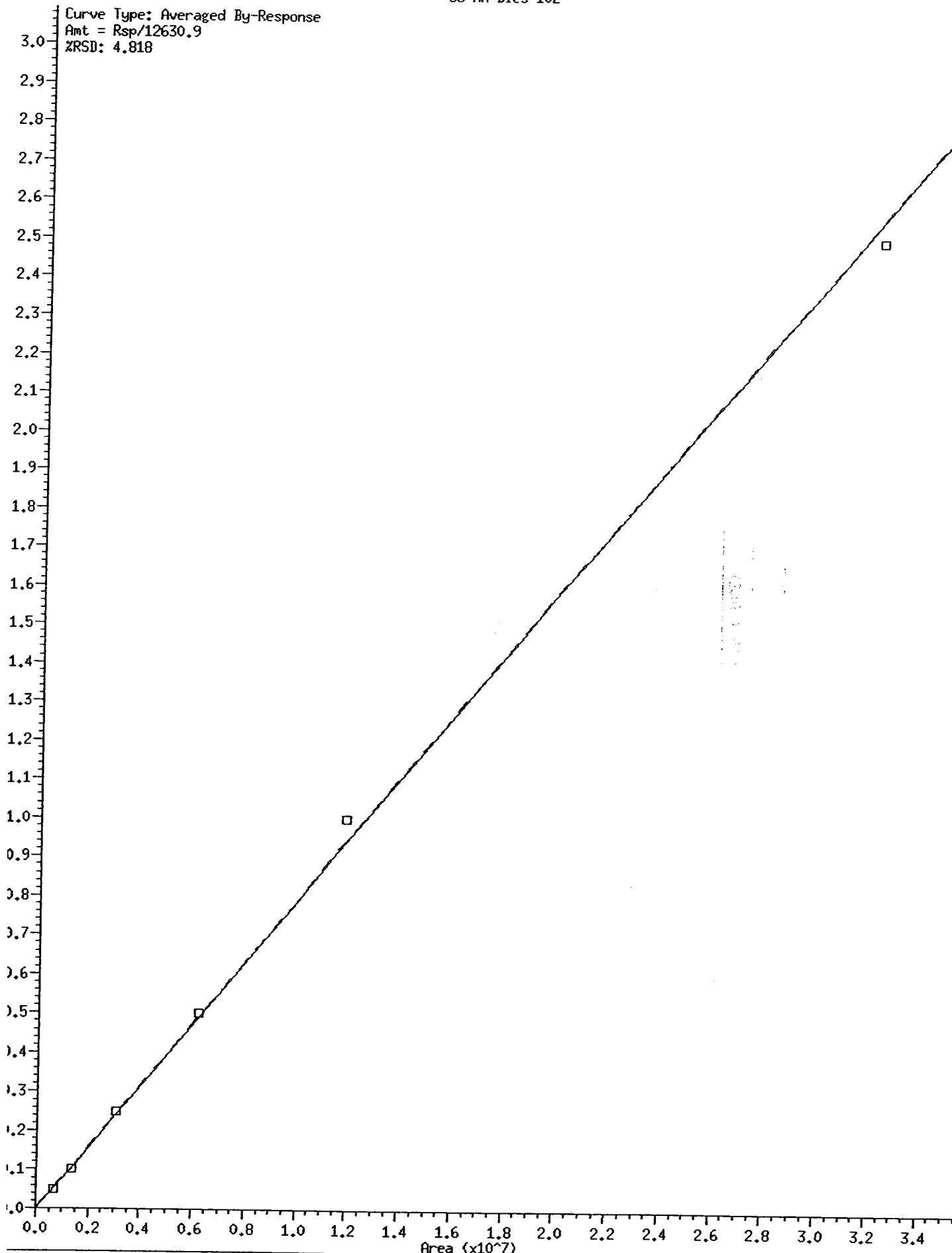
Curve Type: Averaged By-Response
Amt = Rsp/11367.72
%RSD: 4.693



Curve Type: Averaged By-Response

Amt = Rsp/12630.9

%RSD: 4.818



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a003.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: RT
Client ID: RT
Injection: 22-JAN-2010 18:29
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|------|
| Toluene | 2.540 | 0.000 | 359952 | 171645 | GAS (Tol-C12) | 874036 | 74 |
| 8 | 2.754 | 0.000 | 166751 | 168628 | DIESEL (C12-C24) | 1439142 | 127 |
| 10 | 3.859 | 0.000 | 183358 | 195749 | M.OIL (C24-C38) | 1928519 | 207 |
| 12 | 4.732 | 0.000 | 167286 | 201582 | AK-102 (C10-C25) | 1884384 | 149 |
| 14 | 5.463 | 0.000 | 224318 | 204640 | AK-103 (C25-C36) | 1655433 | 240 |
| 16 | 6.113 | 0.000 | 281083 | 216116 | OR.DIES (C10-C28) | 2727832 | 212 |
| 18 | 6.729 | 0.000 | 318896 | 225471 | OR.MOIL (C28-C40) | 1309368 | 189 |
| 20 | 7.322 | 0.000 | 292558 | 225560 | | | |
| 22 | 7.877 | 0.000 | 330850 | 238830 | | | |
| 24 | 8.398 | 0.000 | 349782 | 238742 | | | |
| 25 | 8.649 | 0.000 | 437425 | 328514 | | | |
| 26 | 8.895 | 0.000 | 310809 | 237959 | | | |
| 28 | 9.401 | 0.000 | 304482 | 241511 | | | |
| 32 | 10.440 | 0.000 | 250353 | 242097 | | | |
| 34 | 10.957 | 0.000 | 248147 | 250255 | CREOSOT (C12-C22) | 1180699 | 421 |
| Filter Peak | 12.900 | 0.000 | 1002 | 1502 | HYDRAUL (C24-C38) | 1928519 | 170 |
| 36 | 11.464 | 0.000 | 239702 | 242815 | | | |
| 38 | 11.954 | 0.000 | 228737 | 248880 | | | |
| 40 | 12.421 | 0.000 | 160767 | 216044 | | | |
| o-terph | 6.896 | 0.000 | 849231 | 737735 | JET-A (C10-C18) | 1117028 | 123 |
| triacon Surr | 9.935 | 0.000 | 649909 | 823613 | | | |

Range Times: NW Diesel (4.732 - 8.398) AK102 (3.86 - 8.65) Jet A (3.86 - 6.73)
NW M.Oil (8.40 - 11.95) AK103 (8.65 - 11.46) OR Diesel (3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 737735 | 53.4 | 118.7 |
| Triacontane | 823613 | 56.0 | 124.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

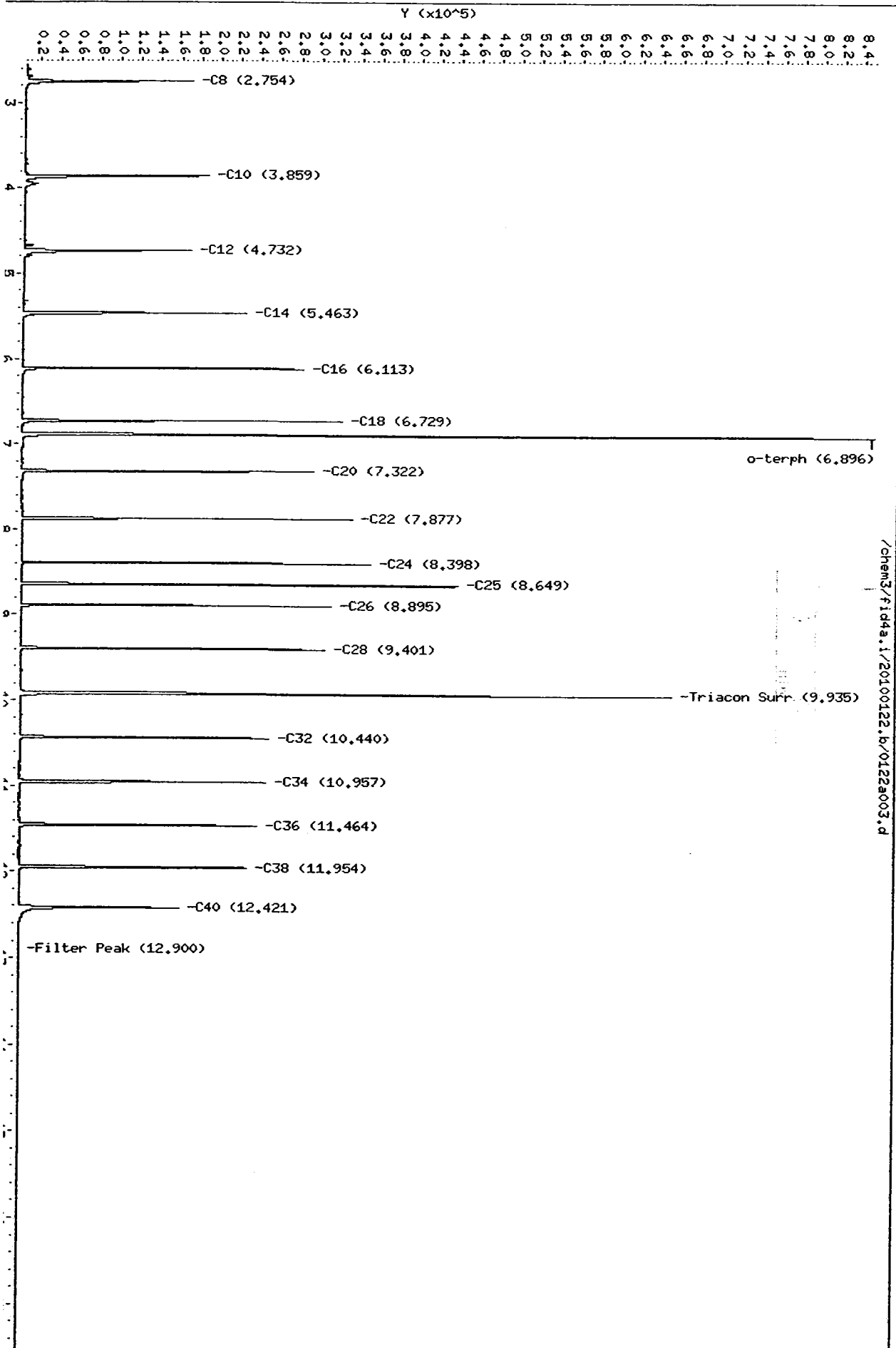
Data File: /chem3/fid4a.i/20100122.b/0122a003.d
Date : 22-JAN-2010 19:29

Client ID: RT
Sample Info: RT

Column phase: RTX-1

Instrument: fid4a.i

Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a004.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: IB
Client ID: IB
Injection: 22-JAN-2010 18:55

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.537 | -0.003 | 119 | 114 | GAS (Tol-C12) | 40081 | 3 |
| 8 | 2.743 | -0.011 | 64 | 76 | DIESEL (C12-C24) | 68991 | 6 |
| 10 | 3.867 | 0.008 | 393 | 407 | M.OIL (C24-C38) | 117793 | 13 |
| 12 | 4.747 | 0.015 | 1075 | 2172 | AK-102 (C10-C25) | 96569 | 8 |
| 14 | 5.450 | -0.013 | 106 | 190 | AK-103 (C25-C36) | 97792 | 14 |
| 16 | 6.112 | 0.000 | 168 | 115 | OR.DIES (C10-C28) | 117822 | 9 |
| 18 | 6.728 | -0.001 | 382 | 126 | OR.MOIL (C28-C40) | 110756 | 16 |
| 20 | 7.345 | 0.023 | 515 | 1173 | | | |
| 22 | 7.865 | -0.012 | 407 | 381 | | | |
| 24 | 8.413 | 0.015 | 584 | 1361 | | | |
| 25 | 8.635 | -0.014 | 852 | 1474 | | | |
| 26 | 8.891 | -0.004 | 421 | 303 | | | |
| 28 | 9.401 | 0.000 | 954 | 1121 | | | |
| 32 | 10.426 | -0.014 | 773 | 1743 | | | |
| 34 | 10.951 | -0.006 | 612 | 679 | CREOSOT (C12-C22) | 56519 | 20 |
| Filter Peak | 12.902 | 0.002 | 972 | 1039 | HYDRAUL (C24-C38) | 117793 | 10 |
| 36 | 11.454 | -0.010 | 546 | 821 | | | |
| 38 | 11.960 | 0.006 | 650 | 975 | | | |
| 40 | 12.431 | 0.010 | 826 | 2459 | | | |
| -terph | 6.894 | -0.002 | 870902 | 896085 | JET-A (C10-C18) | 45755 | 5 |
| triacon Surr | 9.930 | -0.005 | 570424 | 714552 | | | |

Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 896085 | 64.9 | 144.2 |
| Triacontane | 714552 | 48.6 | 108.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

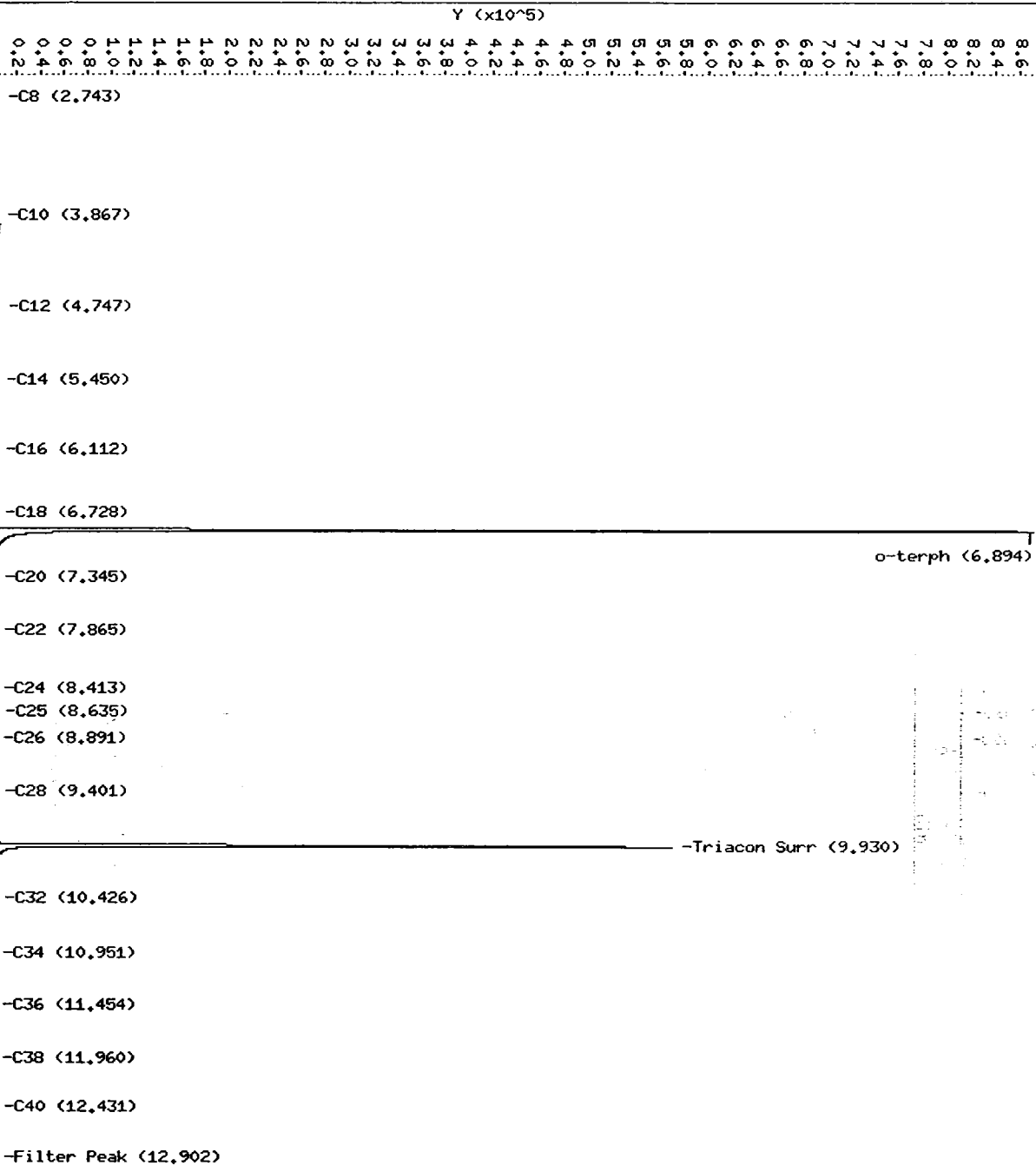
Data File: /chem3/fid4a.i/20100122.b/0122a004.d
Date : 22-JAN-2010 18:55

Client ID: JB
Sample Info: JB

Column Phase: RTX-1

Instrument: fid4a.i

Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a004.d

o-terph (6.894)

Analytical Resources Inc.
TPH Quantitation Report

ata file: /chem3/fid4a.i/20100122.b/0122a005.d
ethod: /chem3/fid4a.i/20100122.b/ftphfid4a.m
nstrument: fid4a.i
perator: ar
eport Date: 01/25/2010
acro: 22-JAN-2010
alibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 22-JAN-2010 19:20

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| oluene | 2.547 | 0.007 | 104 | 195 | GAS (Tol-C12) | 82906 | 7 |
| 8 | 2.757 | 0.003 | 36 | 36 | DIESEL (C12-C24) | 583591 | 51 |
| 10 | 3.873 | 0.014 | 723 | 1007 | M.OIL (C24-C38) | 98848 | 11 |
| 12 | 4.730 | -0.001 | 1611 | 3499 | AK-102 (C10-C25) | 649764 | 51 |
| 14 | 5.449 | -0.014 | 2138 | 1245 | AK-103 (C25-C36) | 77782 | 11 |
| 16 | 6.120 | 0.008 | 14324 | 18905 | OR.DIES (C10-C28) | 676897 | 53 |
| 18 | 6.747 | 0.018 | 8113 | 16574 | OR.MOIL (C28-C40) | 83174 | 12 |
| 20 | 7.313 | -0.009 | 2156 | 1276 | | | |
| 22 | 7.890 | 0.013 | 1415 | 897 | | | |
| 24 | 8.391 | -0.007 | 999 | 354 | | | |
| 25 | 8.646 | -0.003 | 743 | 1152 | | | |
| 26 | 8.904 | 0.008 | 626 | 406 | | | |
| 28 | 9.412 | 0.011 | 488 | 353 | | | |
| 32 | 10.440 | 0.001 | 499 | 176 | | | |
| 34 | 10.964 | 0.006 | 477 | 604 | CREOSOT (C12-C22) | 552588 | 197 |
| Filter Peak | 12.892 | -0.009 | 872 | 708 | HYDRAUL (C24-C38) | 98848 | 9 |
| 36 | 11.460 | -0.004 | 523 | 514 | | | |
| 38 | 11.950 | -0.004 | 606 | 190 | | | |
| 40 | 12.422 | 0.001 | 725 | 457 | | | |
| o-terph | 6.892 | -0.004 | 97939 | 113777 | JET-A (C10-C18) | 442659 | 49 |
| triacon Surr | 9.941 | 0.006 | 423 | 181 | | | |

Retention Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 113777 | 8.2 | 18.3 |
| Triacotane | 181 | 0.0 | 0.0 |

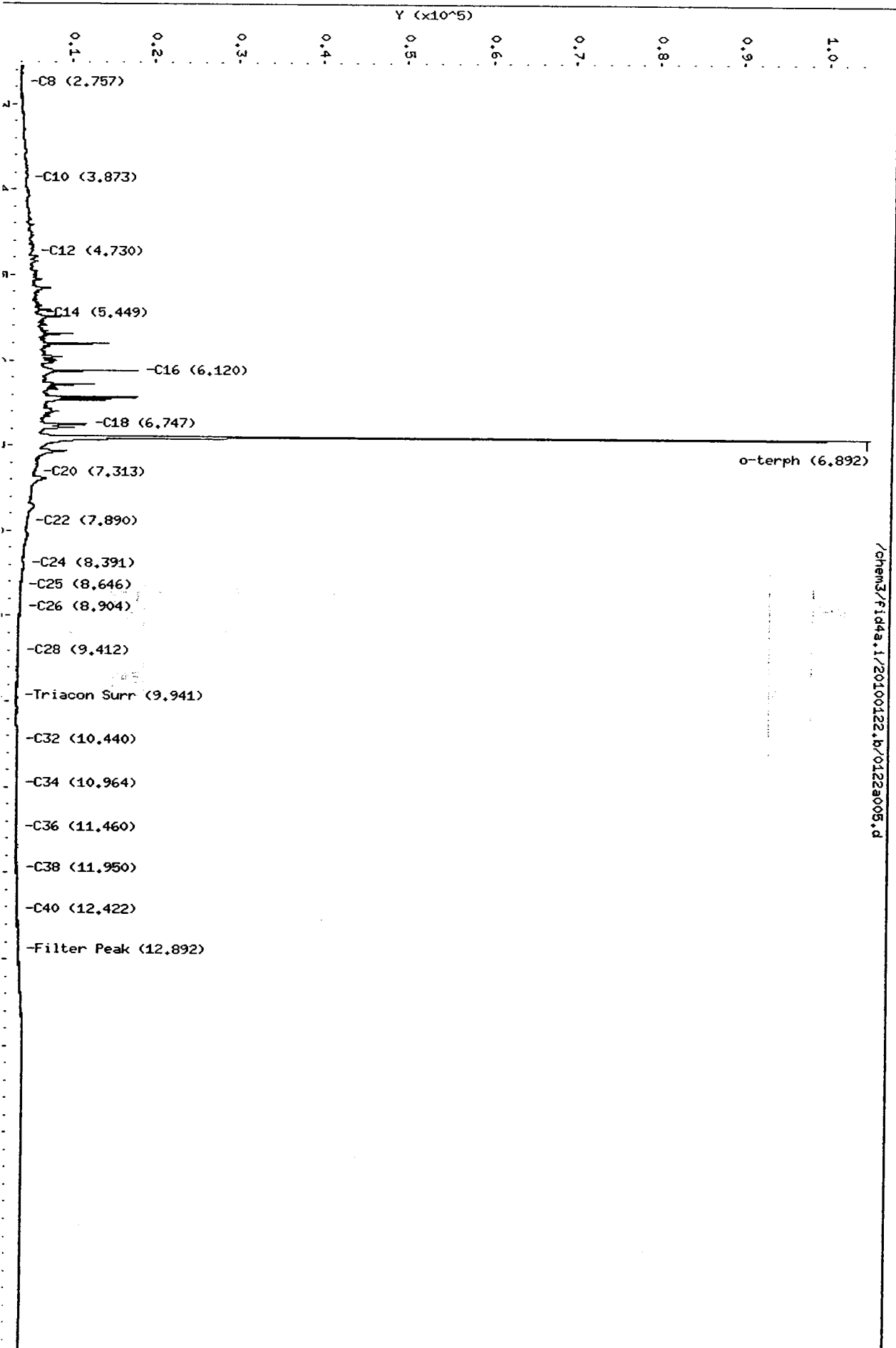
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100122.b/0122a005.d
Date: 22-JAN-2010 19:20
Client ID: DIESEL 50
Sample Info: DIESEL 50

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00

/chem3/fid4a.i/20100122.b/0122a005.d



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a006.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 22-JAN-2010 19:45

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.536 | -0.004 | 152 | 336 | GAS (Tol-C12) | 171584 | 14 |
| 8 | 2.746 | -0.009 | 70 | 76 | DIESEL (C12-C24) | 1209480 | 106 |
| 10 | 3.865 | 0.006 | 1650 | 3172 | M.OIL (C24-C38) | 101123 | 11 |
| 12 | 4.736 | 0.004 | 3153 | 2296 | AK-102 (C10-C25) | 1348459 | 107 |
| 14 | 5.466 | 0.003 | 19162 | 25130 | AK-103 (C25-C36) | 78693 | 11 |
| 16 | 6.112 | -0.001 | 43527 | 33534 | OR.DIES (C10-C28) | 1380934 | 108 |
| 18 | 6.731 | 0.002 | 32963 | 36491 | OR.MOIL (C28-C40) | 76971 | 11 |
| 20 | 7.335 | 0.013 | 13855 | 28194 | | | |
| 22 | 7.876 | -0.001 | 2470 | 4383 | | | |
| 24 | 8.409 | 0.011 | 1275 | 728 | | | |
| 25 | 8.641 | -0.008 | 1103 | 1289 | | | |
| 26 | 8.893 | -0.003 | 776 | 776 | | | |
| 28 | 9.403 | 0.002 | 533 | 700 | | | |
| 32 | 10.441 | 0.001 | 521 | 496 | | | |
| 34 | 10.964 | 0.006 | 452 | 227 | CREOSOT (C12-C22) | 1162648 | 415 |
| Filter Peak | 12.893 | -0.007 | 847 | 368 | HYDRAUL (C24-C38) | 101123 | 9 |
| 36 | 11.464 | 0.000 | 512 | 160 | | | |
| 38 | 11.953 | -0.001 | 586 | 461 | | | |
| 40 | 12.411 | -0.010 | 725 | 342 | | | |
| o-terph | 6.888 | -0.008 | 314933 | 248629 | JET-A (C10-C18) | 976129 | 107 |
| triacon Surr | 9.922 | -0.013 | 435 | 473 | | | |

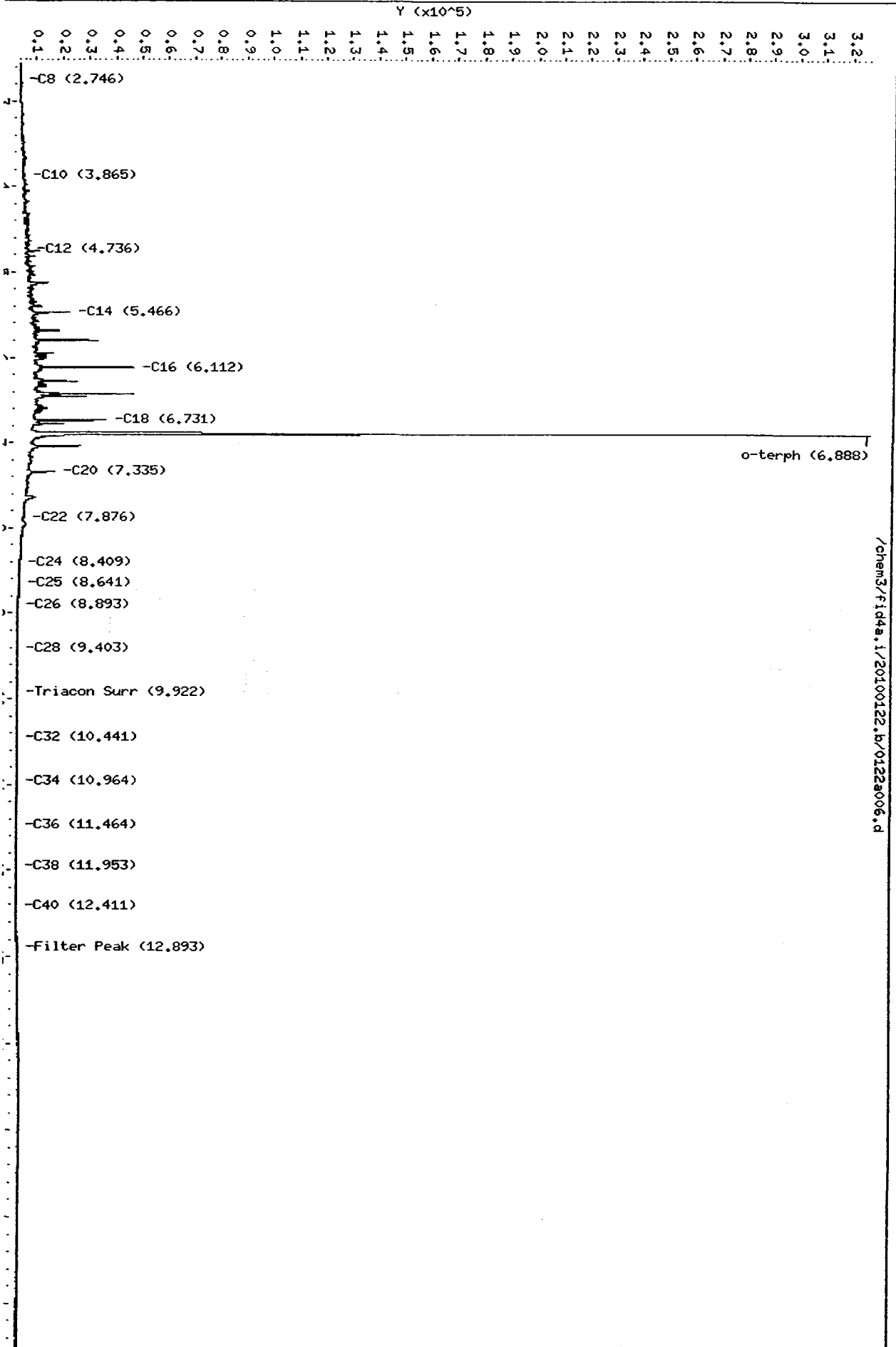
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 248629 | 18.0 | 40.0 |
| Triacontane | 473 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.1/20100122.b/0122a006.d
Date: 22-JAN-2010 19:45
Client ID: DIESEL 100
Sample Info: DIESEL 100
Column phase: RTX-1

Instrument: fid4a.1
Operator: ar
Column diameter: 2.00



20100122

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a007.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 250
Client ID: DIESEL 250
Injection: 22-JAN-2010 20:10
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| oluene | 2.537 | -0.003 | 575 | 617 | GAS (Tol-C12) | 378106 | 32 |
| 8 | 2.737 | -0.017 | 395 | 420 | DIESEL (C12-C24) | 2731132 | 240 |
| 10 | 3.863 | 0.004 | 3083 | 3777 | M.OIL (C24-C38) | 113349 | 12 |
| 12 | 4.728 | -0.003 | 22496 | 24507 | AK-102 (C10-C25) | 3029248 | 240 |
| 14 | 5.457 | -0.006 | 53621 | 44371 | AK-103 (C25-C36) | 83888 | 12 |
| 16 | 6.108 | -0.005 | 106279 | 75868 | OR.DIES (C10-C28) | 3064699 | 239 |
| 18 | 6.726 | -0.003 | 91634 | 77235 | OR.MOIL (C28-C40) | 81204 | 12 |
| 20 | 7.319 | -0.003 | 52201 | 50374 | | | |
| 22 | 7.889 | 0.012 | 13974 | 38281 | | | |
| 24 | 8.396 | -0.002 | 2217 | 4352 | | | |
| 25 | 8.656 | 0.007 | 1405 | 2029 | | | |
| 26 | 8.884 | -0.011 | 1165 | 1465 | | | |
| 28 | 9.406 | 0.006 | 598 | 598 | | | |
| 32 | 10.434 | -0.005 | 444 | 492 | | | |
| 34 | 10.954 | -0.004 | 461 | 323 | CREOSOT (C12-C22) | 2649181 | 945 |
| Filter Peak | 12.897 | -0.004 | 842 | 333 | HYDRAUL (C24-C38) | 113349 | 10 |
| 36 | 11.465 | 0.001 | 502 | 296 | | | |
| 38 | 11.947 | -0.007 | 584 | 1095 | | | |
| 40 | 12.429 | 0.008 | 684 | 351 | | | |
| -terph | 6.894 | -0.002 | 764494 | 595748 | JET-A (C10-C18) | 2177788 | 239 |
| triacon Surr | 9.930 | -0.005 | 460 | 223 | | | |

Range Times: NW Diesel (4.732 - 8.398) AK102 (3.86 - 8.65) Jet A (3.86 - 6.73)
NW M.Oil (8.40 - 11.95) AK103 (8.65 - 11.46) OR Diesel (3.86 - 9.40)

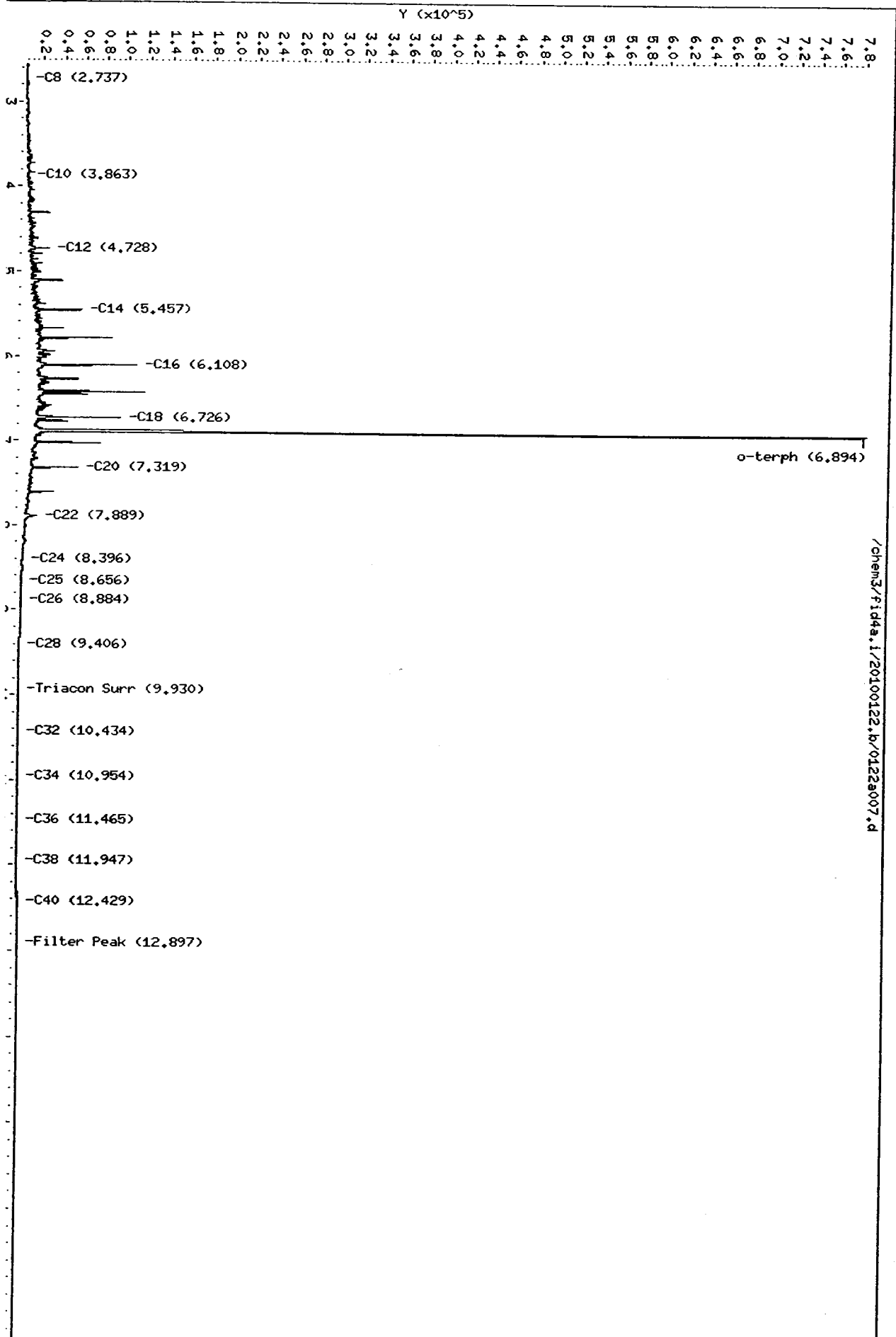
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 595748 | 43.1 | 95.9 |
| Triacontane | 223 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100122.b/0122a007.d
Date : 22-JAN-2010 20:10
Client ID: DIESEL 250
Sample Info: DIESEL 250

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a007.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a008.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: DIESEL 500
Client ID: DIESEL 500
Injection: 22-JAN-2010 20:35

Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|------|
| Toluene | 2.532 | -0.008 | 1323 | 1114 | GAS (Tol-C12) | 763979 | 65 |
| 8 | 2.748 | -0.007 | 470 | 337 | DIESEL (C12-C24) | 5617653 | 494 |
| 10 | 3.853 | -0.005 | 7233 | 5892 | M.OIL (C24-C38) | 126876 | 14 |
| 12 | 4.733 | 0.001 | 16597 | 15583 | AK-102 (C10-C25) | 6209346 | 492 |
| 14 | 5.454 | -0.009 | 121146 | 96555 | AK-103 (C25-C36) | 97091 | 14 |
| 16 | 6.107 | -0.006 | 233347 | 160370 | OR.DIES (C10-C28) | 6259154 | 487 |
| 18 | 6.727 | -0.002 | 197104 | 171950 | OR.MOIL (C28-C40) | 74358 | 11 |
| 20 | 7.316 | -0.006 | 120924 | 99889 | | | |
| 22 | 7.876 | -0.001 | 48473 | 54627 | | | |
| 24 | 8.397 | -0.001 | 3546 | 3262 | | | |
| 25 | 8.646 | -0.003 | 2271 | 1695 | | | |
| 26 | 8.892 | -0.003 | 1386 | 2811 | | | |
| 28 | 9.392 | -0.009 | 684 | 865 | | | |
| 32 | 10.438 | -0.002 | 443 | 464 | | | |
| 34 | 10.961 | 0.004 | 421 | 673 | CREOSOT (C12-C22) | 5425194 | 1936 |
| Filter Peak | 12.910 | 0.010 | 796 | 664 | HYDRAUL (C24-C38) | 126876 | 11 |
| 36 | 11.463 | -0.002 | 467 | 165 | | | |
| 38 | 11.964 | 0.010 | 544 | 278 | | | |
| 40 | 12.424 | 0.003 | 669 | 496 | | | |
| o-terph | 6.903 | 0.007 | 1245371 | 1256288 | JET-A (C10-C18) | 4482480 | 493 |
| triacon Surr | 9.941 | 0.006 | 449 | 519 | | | |

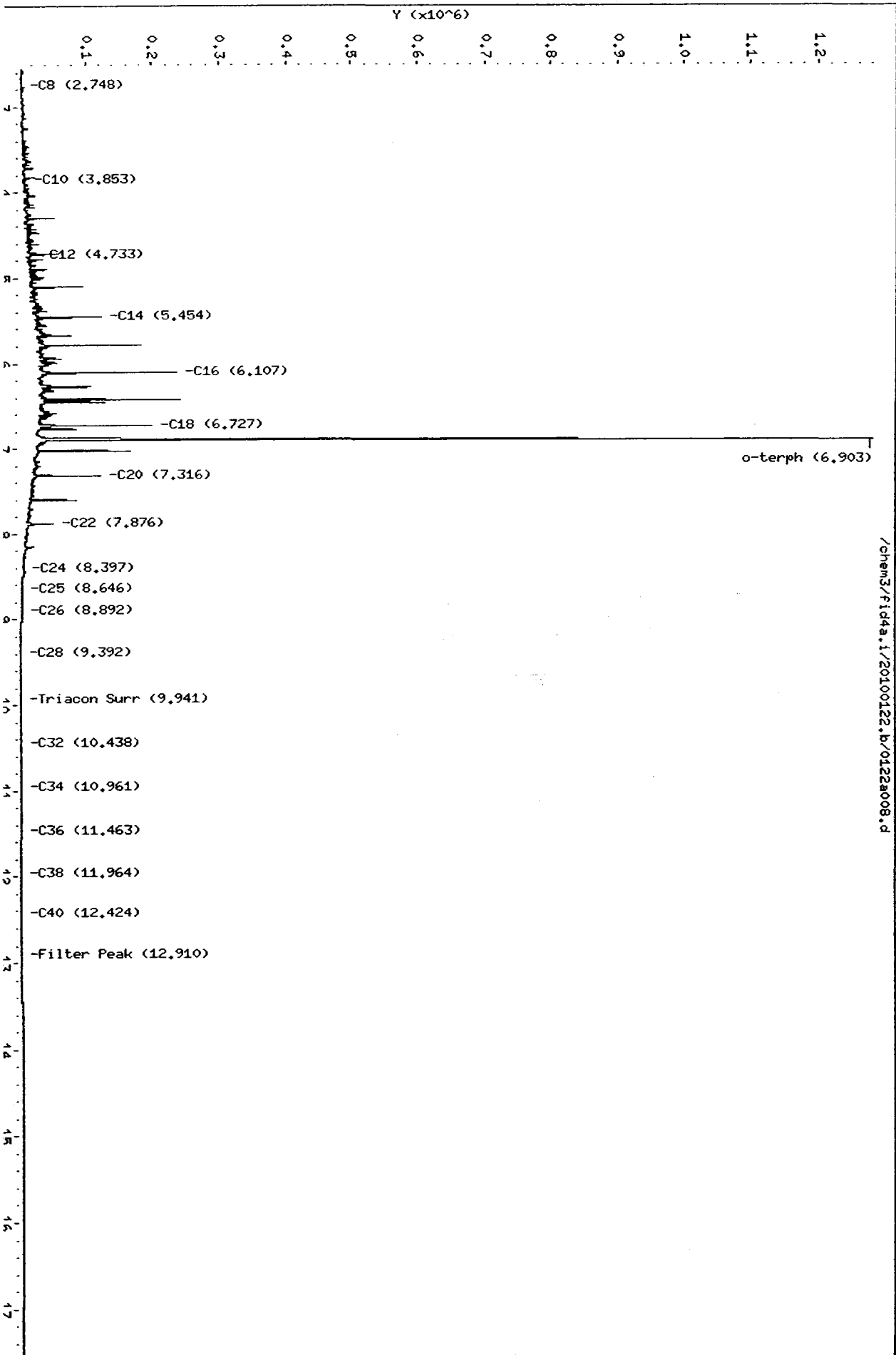
=====
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1256288 | 91.0 | 202.2 |
| Triacontane | 519 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.1/20100122.b/0122a008.d
Date : 22-JAN-2010 20:35
Client ID: DIESEL 500
Sample Info: DIESEL 500
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.1/20100122.b/0122a008.d

0122A008.D

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a009.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 22-JAN-2010 21:01

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|------|
| Toluene | 2.533 | -0.007 | 2460 | 2031 | GAS (Tol-C12) | 1532777 | 129 |
| 28 | 2.768 | 0.014 | 9572 | 6607 | DIESEL (C12-C24) | 10647848 | 937 |
| 310 | 3.865 | 0.006 | 7574 | 4852 | M.OIL (C24-C38) | 184504 | 20 |
| 312 | 4.729 | -0.002 | 32760 | 29816 | AK-102 (C10-C25) | 11855906 | 939 |
| 314 | 5.472 | 0.009 | 60250 | 57443 | AK-103 (C25-C36) | 131256 | 19 |
| 316 | 6.109 | -0.004 | 424785 | 310333 | OR.DIES (C10-C28) | 11943363 | 930 |
| 318 | 6.731 | 0.002 | 328756 | 317727 | OR.MOIL (C28-C40) | 71486 | 10 |
| 320 | 7.317 | -0.005 | 231385 | 188260 | | | |
| 322 | 7.872 | -0.005 | 102585 | 110593 | | | |
| 324 | 8.407 | 0.009 | 18166 | 37681 | | | |
| 325 | 8.610 | -0.039 | 4323 | 10935 | | | |
| 326 | 8.898 | 0.003 | 2025 | 1081 | | | |
| 328 | 9.394 | -0.007 | 868 | 833 | | | |
| 332 | 10.435 | -0.004 | 418 | 737 | | | |
| 334 | 10.964 | 0.007 | 367 | 237 | CREOSOT (C12-C22) | 10261772 | 3661 |
| Filter Peak | 12.898 | -0.002 | 724 | 474 | HYDRAUL (C24-C38) | 184504 | 16 |
| 336 | 11.462 | -0.002 | 414 | 89 | | | |
| 338 | 11.934 | -0.020 | 485 | 718 | | | |
| 340 | 12.421 | 0.000 | 596 | 501 | | | |
| o-terph | 6.916 | 0.020 | 1863378 | 2455553 | JET-A (C10-C18) | 8501927 | 934 |
| Triacon Surr | 9.952 | 0.017 | 441 | 334 | | | |

Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

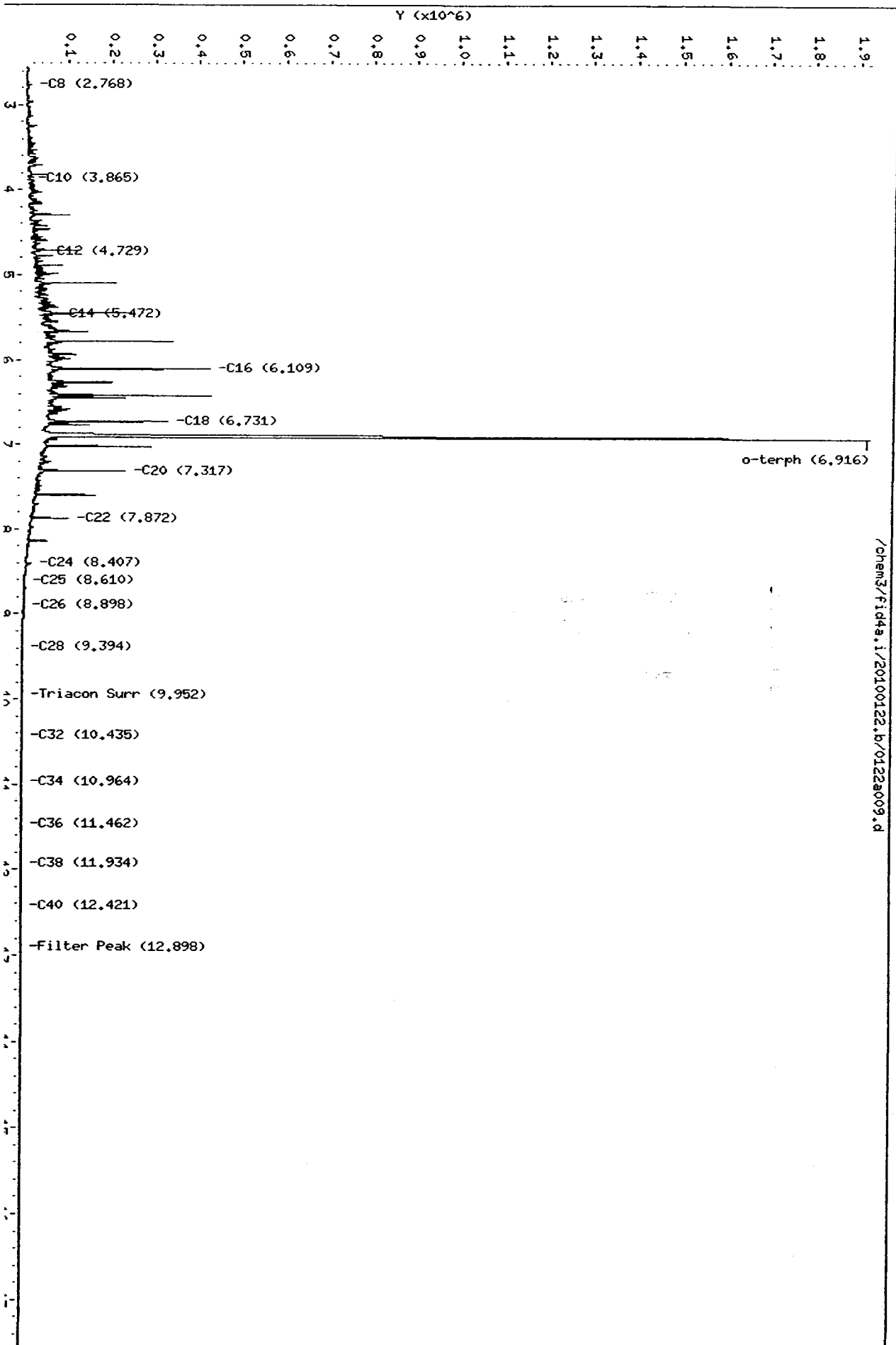
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2455553 | 177.9 | 395.2 |
| Triacontane | 334 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100122.b/0122a009.d
Date: 22-JAN-2010 21:01
Client ID: DIESEL 1000
Sample Info: DIESEL 1000

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a009.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a010.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: DIESEL 2500
Client ID: DIESEL 2500
Injection: 22-JAN-2010 21:26

Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|-------|
| toluene | 2.529 | -0.011 | 3362 | 3441 | GAS (Tol-C12) | 4008928 | 338 |
| 8 | 2.752 | -0.002 | 5547 | 5852 | DIESEL (C12-C24) | 29080003 | 2558 |
| 10 | 3.864 | 0.005 | 19921 | 11594 | M.OIL (C24-C38) | 356504 | 38 |
| 12 | 4.729 | -0.003 | 88391 | 76239 | AK-102 (C10-C25) | 32284880 | 2556 |
| 14 | 5.458 | -0.005 | 553997 | 522159 | AK-103 (C25-C36) | 219964 | 32 |
| 16 | 6.119 | 0.007 | 834343 | 889658 | OR.DIES (C10-C28) | 32477654 | 2529 |
| 18 | 6.744 | 0.015 | 593229 | 1005577 | OR.MOIL (C28-C40) | 38213 | 6 |
| 20 | 7.327 | 0.005 | 522685 | 557970 | | | |
| 22 | 7.876 | -0.001 | 293482 | 258420 | | | |
| 24 | 8.393 | -0.005 | 89688 | 88491 | | | |
| 25 | 8.646 | -0.003 | 30156 | 68250 | | | |
| 26 | 8.883 | -0.012 | 4271 | 3630 | | | |
| 28 | 9.408 | 0.007 | 1049 | 1892 | | | |
| 32 | 10.434 | -0.006 | 161 | 257 | | | |
| 34 | 10.945 | -0.013 | 125 | 158 | CREOSOT (C12-C22) | 28031993 | 10002 |
| filter Peak | 12.904 | 0.004 | 432 | 288 | HYDRAUL (C24-C38) | 356504 | 31 |
| 36 | 11.449 | -0.015 | 146 | 55 | | | |
| 38 | 11.957 | 0.003 | 231 | 276 | | | |
| 40 | 12.426 | 0.005 | 288 | 307 | | | |
| -terph | 6.948 | 0.052 | 3177164 | 6995488 | JET-A (C10-C18) | 22806388 | 2507 |
| triacon Surr | 9.934 | -0.001 | 530 | 466 | | | |

Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

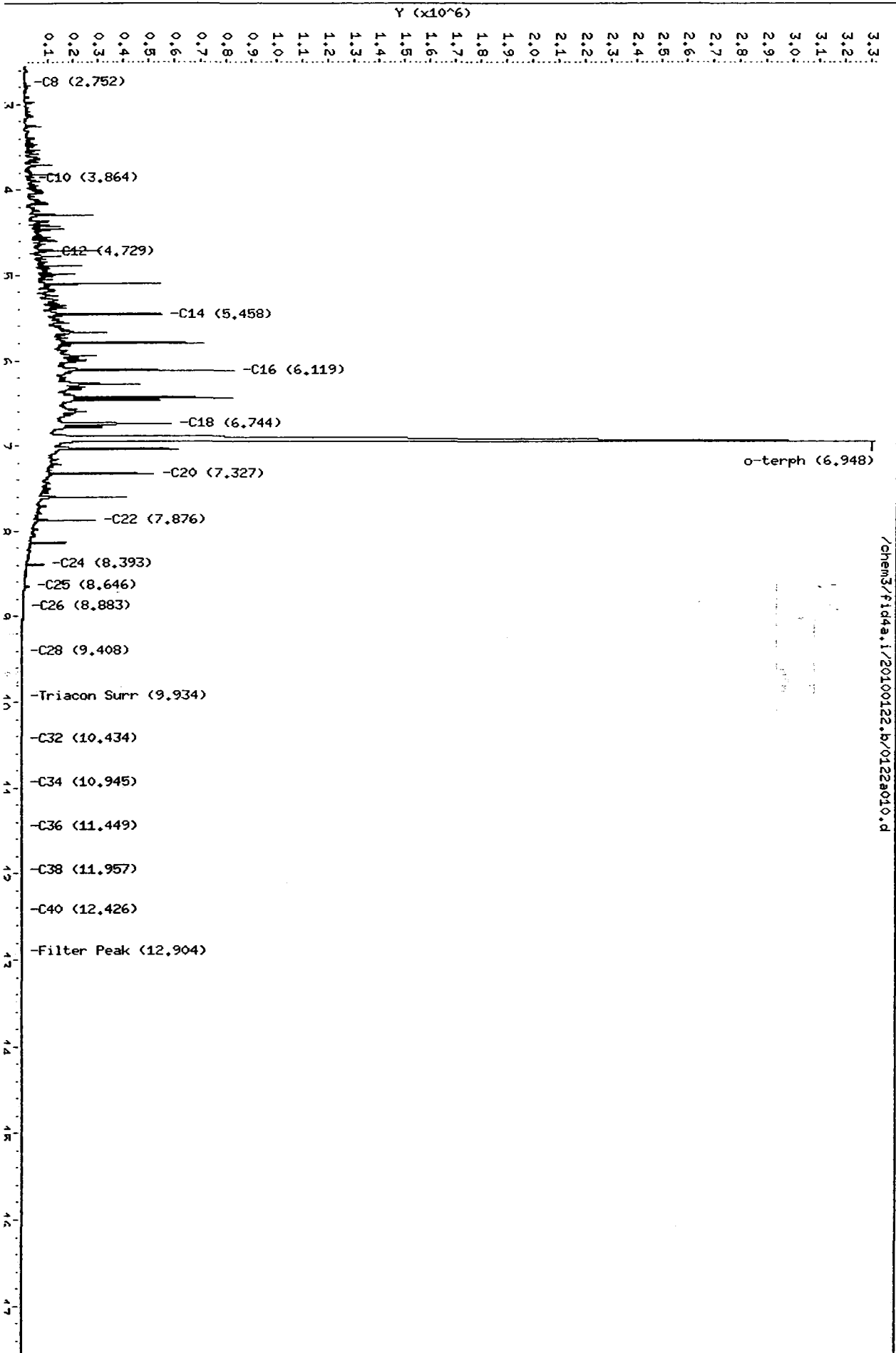
| Surrogate | Area | Amount | %Rec |
|--------------|---------|--------|--------|
| o-Terphenyl | 6995488 | 506.7 | 1125.9 |
| Triaconthane | 466 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100122.b/0122a010.d
Date : 22-JAN-2010 21:26
Client ID: DIESEL 2500
Sample Info: DIESEL 2500

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a010.d

0122a010.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a011.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL ICV
Client ID: DIESEL ICV
Injection: 22-JAN-2010 21:51

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.525 | -0.015 | 1164 | 942 | GAS (Tol-C12) | 486790 | 41 |
| 8 | 2.746 | -0.008 | 756 | 552 | DIESEL (C12-C24) | 2504551 | 220 |
| 10 | 3.856 | -0.003 | 6144 | 4924 | M.OIL (C24-C38) | 107823 | 12 |
| 12 | 4.723 | -0.008 | 38906 | 35986 | AK-102 (C10-C25) | 2880347 | 228 |
| 14 | 5.456 | -0.006 | 69425 | 58281 | AK-103 (C25-C36) | 82799 | 12 |
| 16 | 6.108 | -0.005 | 77916 | 63080 | OR.DIES (C10-C28) | 2919178 | 227 |
| 18 | 6.725 | -0.004 | 60399 | 54791 | OR.MOIL (C28-C40) | 70558 | 10 |
| 20 | 7.321 | -0.001 | 34738 | 42654 | | | |
| 22 | 7.869 | -0.008 | 3786 | 2322 | | | |
| 24 | 8.387 | -0.011 | 1930 | 4444 | | | |
| 25 | 8.660 | 0.011 | 1274 | 1462 | | | |
| 26 | 8.909 | 0.013 | 1010 | 1291 | | | |
| 28 | 9.401 | 0.000 | 580 | 499 | | | |
| 32 | 10.434 | -0.005 | 439 | 546 | | | |
| 34 | 10.956 | -0.001 | 383 | 399 | CREOSOT (C12-C22) | 2432563 | 868 |
| Filter Peak | 12.900 | 0.000 | 754 | 357 | HYDRAUL (C24-C38) | 107823 | 10 |
| 36 | 11.461 | -0.004 | 434 | 449 | | | |
| 38 | 11.955 | 0.000 | 513 | 499 | | | |
| 40 | 12.423 | 0.002 | 624 | 516 | | | |
| -terph | 6.893 | -0.003 | 779762 | 609141 | JET-A (C10-C18) | 2206335 | 243 |
| triacon Surr | 9.913 | -0.022 | 417 | 993 | | | |

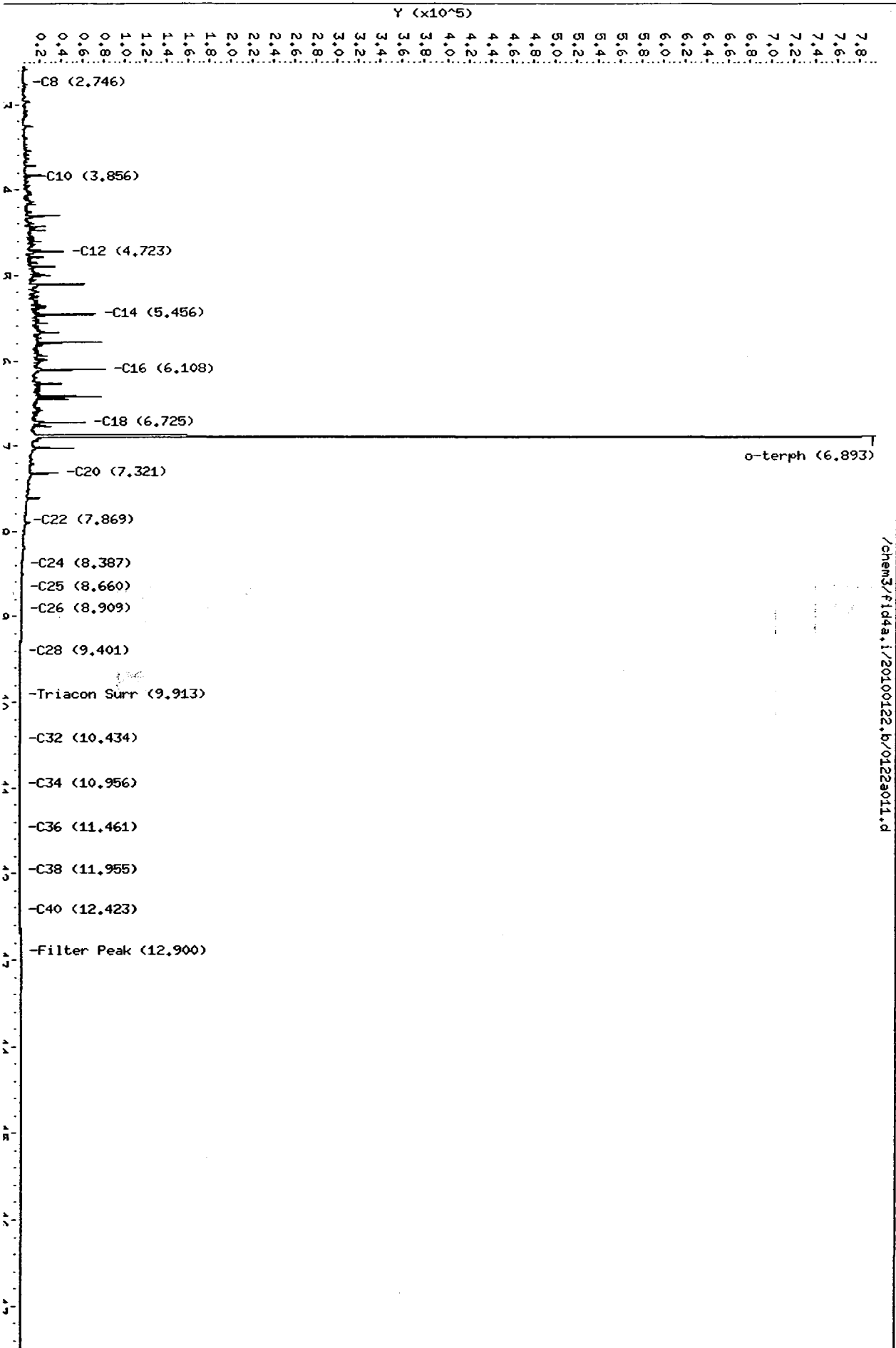
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 609141 | 44.1 | 98.0 |
| Triacontane | 993 | 0.1 | 0.2 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 12843.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100122.b/0122a011.d
Date : 22-JAN-2010 21:51
Client ID: DIESEL ICV
Sample Info: DIESEL ICV
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a011.d

6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD/SNIDER

Instrument: FID4A.I

Project: LLA

Calibration Date: 22-JAN-2010

SDG No.: QP69

| Motor Oil Range | RF1 100 | RF2 250 | RF3 500 | RF4 1000 | RF5 2500 | RF6 5000 | Ave RF | %RSD |
|-----------------|------------|------------|------------|-------------|-------------|-------------|--------|------|
| WA M.Oil | 9786 | 9956 | 8959 | 9680 | 9090 | 8344 | 9302 | 6.6 |
| AK M.Oil | 8128 | 8343 | 7480 | 8087 | 7714 | 7640 | 7899 | 4.2 |
| OR M.Oil | 8648 | 8727 | 7919 | 8418 | 7521 | 6171 | 7901 | 12.2 |
| Triac Surr | 13110 | 15033 | 14220 | 15386 | 15049 | 15372 | 14695 | 6.0 |

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

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36
 OR M.Oil C28-C40

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0121a014.d | 22-JAN-2010 01:30 |
| 0121a015.d | 22-JAN-2010 01:55 |
| 0121a016.d | 22-JAN-2010 02:21 |
| 0121a017.d | 22-JAN-2010 02:45 |
| 0121a018.d | 22-JAN-2010 03:10 |
| 0121a019.d | 22-JAN-2010 03:35 |

Analytical Resources, Inc.

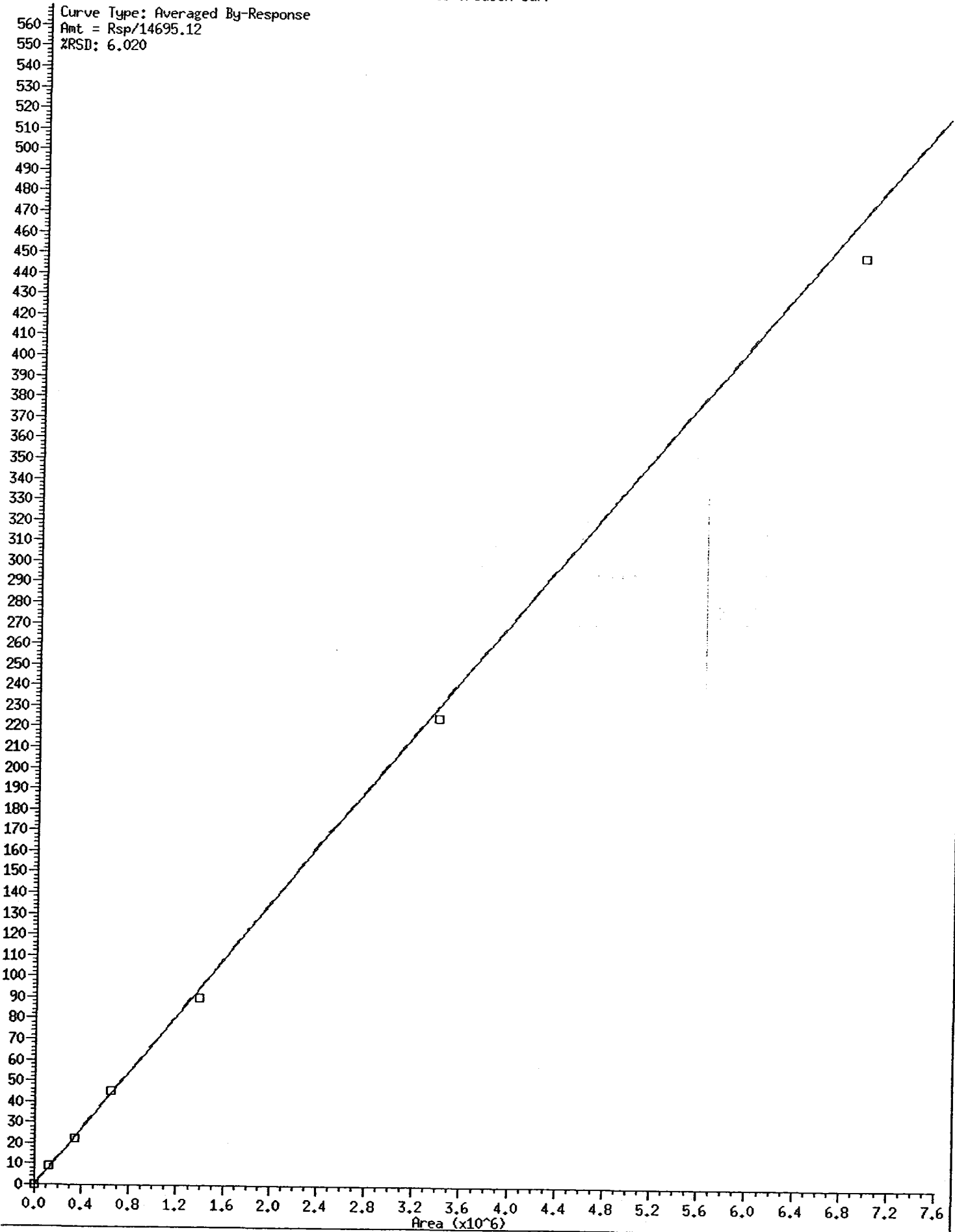
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2004 08:49
 End Cal Date : 22-JAN-2010 03:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem3/fid4a.i/20100121.b/ftphfid4a.m
 Cal Date : 22-Jan-2010 17:02 marys
 Curve Type : Average

| Compound | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | RRF | % RSD |
|-----------------|---------------|-----------|-----------|-----------|-----------|-----------|-------|----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | |
| 31 NW Diesel | ++++ 12342 | ++++ | 13107 | 13346 | 13092 | 13250 | | |
| | | ++++ | ++++ | ++++ | ++++ | ++++ | 13027 | 3.049 <- |
| 32 OR Diesel | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 33 AK Dies 102 | ++++ 13944 | 14910 | 15030 | 14643 | 14783 | 13745 | | |
| | | ++++ | ++++ | ++++ | ++++ | ++++ | 14509 | 3.684 |
| 30 NW MOil | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 34 OR MOil | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 35 AK MOil 103 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 8 o-terph | ++++ 16484 | 15389 | 15737 | 15720 | 16364 | 15418 | | |
| | | ++++ | ++++ | ++++ | ++++ | ++++ | 15852 | 2.953 |
| 15 Triacon Surr | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | | 13110 | 15033 | 14220 | 15386 | 15049 | 14695 | 6.020 |

* 15 Triacon Surr

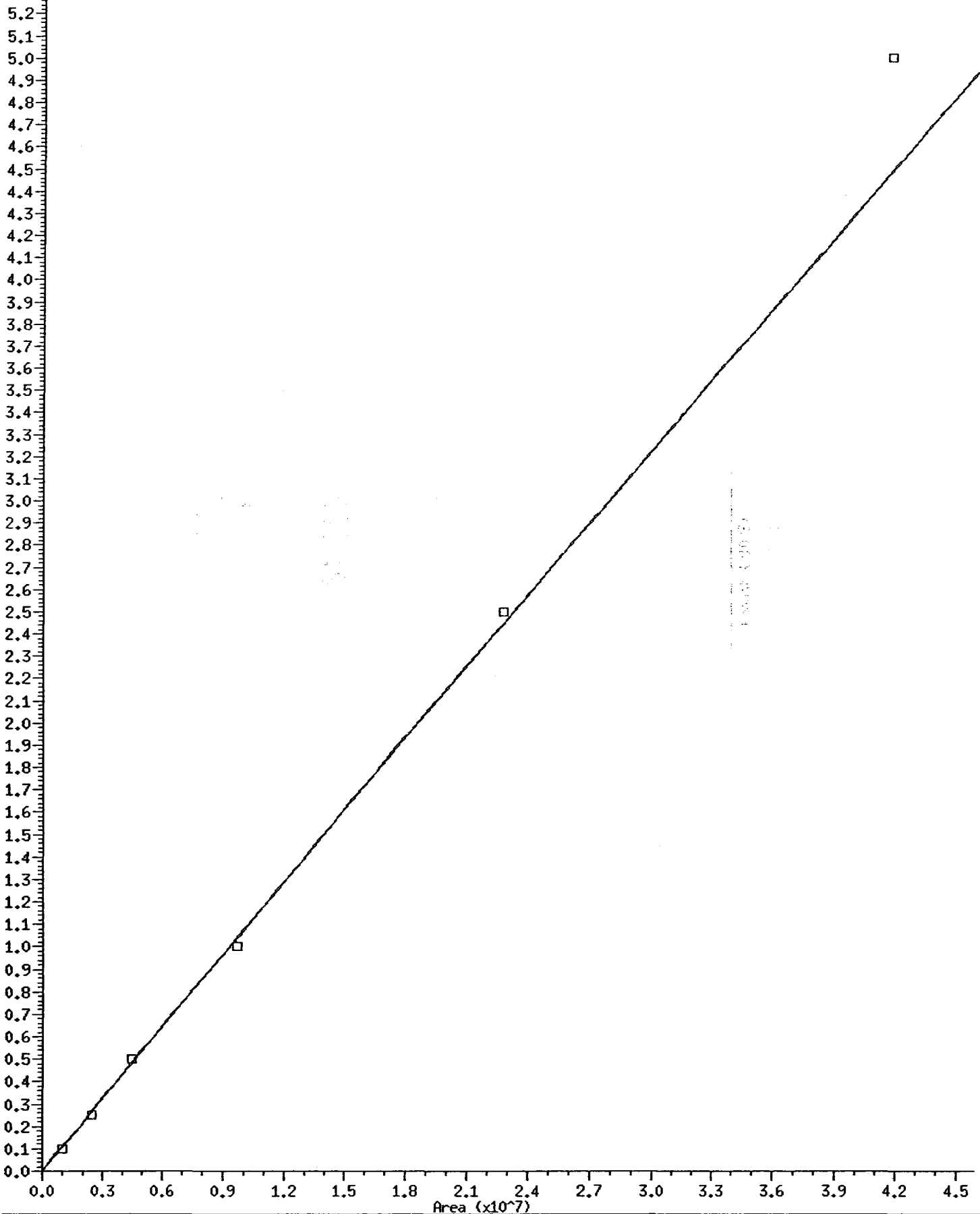
Curve Type: Averaged By-Response
Amt = Rsp/14695.12
%RSD: 6.020



00192 : 00192

30 NW MO11

Curve Type: Averaged By-Response
Amt = Rsp/9302.486
ZRSO: 6.603



Analytical Resources Inc.
TPH Quantitation Report

ata file: /chem3/fid4a.i/20100121.b/0121a004.d
ethod: /chem3/fid4a.i/20100121.b/ftphfid4a.m
nstrument: fid4a.i
perator: ar
eport Date: 01/22/2010
acro: 21-JAN-2010
alibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: RT
Client ID:
Injection: 21-JAN-2010 21:19
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|------|
| Benzene | 2.518 | 0.000 | 323337 | 158056 | GAS (Tol-C12) | 782864 | 66 |
| 8 | 2.738 | 0.000 | 158757 | 152274 | DIESEL (C12-C24) | 1259365 | 97 |
| 10 | 3.855 | 0.000 | 166819 | 169707 | M.OIL (C24-C38) | 1746153 | 188 |
| 12 | 4.730 | 0.000 | 157101 | 177248 | AK-102 (C10-C25) | 1649121 | 114 |
| 14 | 5.461 | 0.000 | 198382 | 180372 | AK-103 (C25-C36) | 1494340 | 217 |
| 16 | 6.112 | 0.000 | 262705 | 189877 | OR.DIES (C10-C28) | 2403209 | 160 |
| 18 | 6.729 | 0.000 | 314673 | 197618 | OR.MOIL (C28-C40) | 1226888 | 177 |
| 20 | 7.320 | 0.000 | 260743 | 196890 | | | |
| 22 | 7.878 | 0.000 | 298105 | 209893 | | | |
| 24 | 8.400 | 0.000 | 320119 | 208675 | | | |
| 25 | 8.651 | 0.000 | 402527 | 295126 | | | |
| 26 | 8.897 | 0.000 | 287683 | 211662 | | | |
| 28 | 9.403 | 0.000 | 259906 | 215874 | | | |
| 32 | 10.444 | 0.000 | 236848 | 215968 | | | |
| 34 | 10.961 | 0.000 | 220328 | 222723 | CREOSOT (C12-C22) | 1030827 | 368 |
| Filter Peak | 12.906 | 0.000 | 1287 | 661 | HYDRAUL (C24-C38) | 1746153 | 154 |
| 36 | 11.466 | 0.000 | 229998 | 215372 | | | |
| 38 | 11.956 | 0.000 | 210571 | 224054 | | | |
| 40 | 12.426 | 0.000 | 192979 | 220405 | | | |
| o-terph | 6.894 | 0.000 | 763252 | 647255 | JET-A (C10-C18) | 975487 | 107 |
| triacon Surr | 9.938 | 0.000 | 614279 | 735500 | | | |

Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 647255 | 40.8 | 90.7 |
| Triacontane | 735500 | 50.1 | 111.2 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a004.d

Date: 21-JAN-2010 21:19

Client ID:

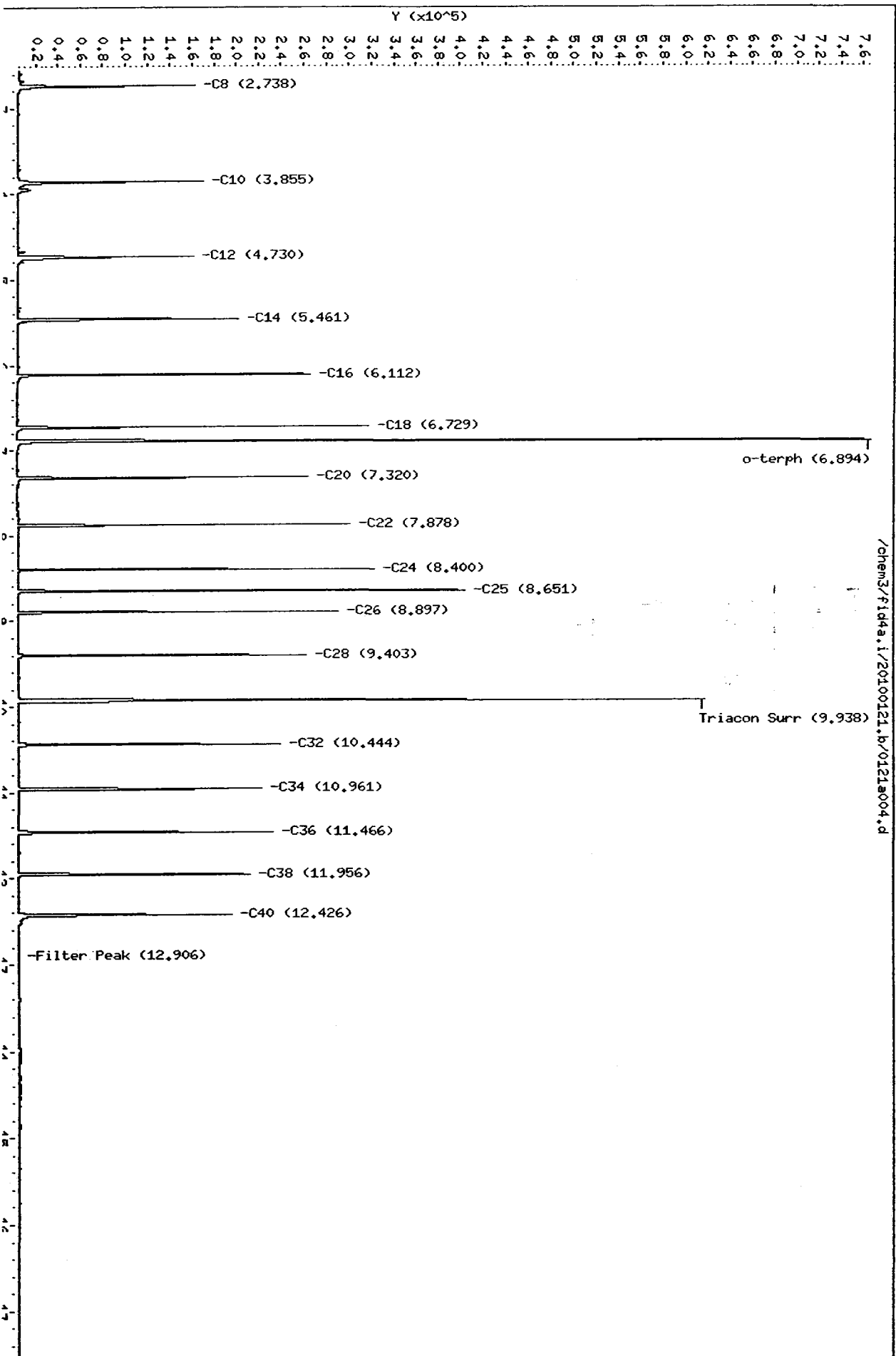
Sample Info: RT

Instrument: fid4a.i

Column phase: RTX-1

Operator: ar

Column diameter: 2.00



0000 : 0010

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a005.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: IB
Client ID:
Injection: 21-JAN-2010 21:44
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.533 | 0.016 | 124 | 89 | GAS (Tol-C12) | 35681 | 3 |
| 28 | 2.738 | 0.000 | 52 | 70 | DIESEL (C12-C24) | 58195 | 4 |
| 310 | 3.851 | -0.004 | 456 | 617 | M.OIL (C24-C38) | 119458 | 13 |
| 312 | 4.735 | 0.005 | 793 | 1540 | AK-102 (C10-C25) | 81461 | 6 |
| 314 | 5.468 | 0.007 | 103 | 140 | AK-103 (C25-C36) | 95984 | 14 |
| 316 | 6.115 | 0.003 | 204 | 145 | OR.DIES (C10-C28) | 105090 | 7 |
| 318 | 6.732 | 0.003 | 332 | 232 | OR.MOIL (C28-C40) | 115072 | 17 |
| 320 | 7.318 | -0.002 | 439 | 546 | | | |
| 322 | 7.888 | 0.010 | 431 | 637 | | | |
| 324 | 8.399 | 0.000 | 522 | 1124 | | | |
| 325 | 8.635 | -0.015 | 615 | 1003 | | | |
| 326 | 8.901 | 0.004 | 479 | 409 | | | |
| 328 | 9.399 | -0.004 | 1037 | 1446 | | | |
| 332 | 10.432 | -0.012 | 696 | 1159 | | | |
| 334 | 10.963 | 0.003 | 642 | 413 | CREOSOT (C12-C22) | 47225 | 17 |
| Filter Peak | 12.905 | -0.001 | 1216 | 674 | HYDRAUL (C24-C38) | 119458 | 11 |
| 336 | 11.465 | -0.001 | 705 | 389 | | | |
| 338 | 11.948 | -0.008 | 833 | 1081 | | | |
| 340 | 12.424 | -0.002 | 972 | 924 | | | |
| o-terph | 6.895 | 0.001 | 903326 | 877561 | JET-A (C10-C18) | 40017 | 4 |
| triacon Surr | 9.933 | -0.005 | 559849 | 711165 | | | |

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 877561 | 55.4 | 123.0 |
| Triacontane | 711165 | 48.4 | 107.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

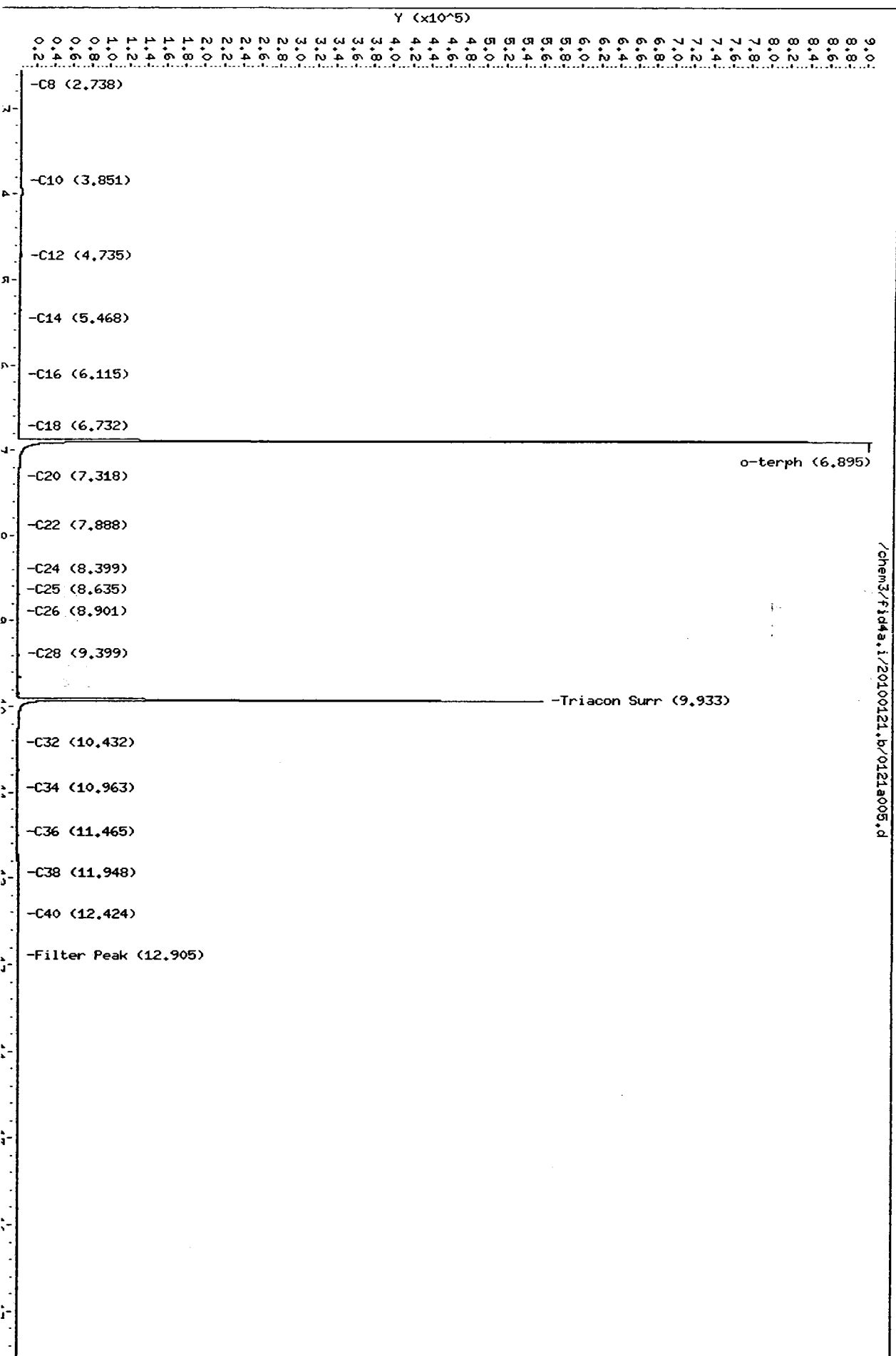
Date File: /chem3/fid4a.i/20100121.b/0121a005.d
Date : 21-JAN-2010 21:44

Client ID:
Sample Info: IB

Column phase: RTX-1

Instrument: fid4a.i

Operator: ar
Column diameter: 2.00



20100121.b/0121a005.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a014.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: MOIL 100
Client ID: MOIL 100
Injection: 22-JAN-2010 01:30

Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.491 | -0.027 | 128 | 239 | GAS (Tol-C12) | 31579 | 3 |
| 8 | 2.737 | -0.002 | 46 | 31 | DIESEL (C12-C24) | 165466 | 13 |
| 10 | 3.851 | -0.004 | 418 | 709 | M.OIL (C24-C38) | 978650 | 105 |
| 12 | 4.728 | -0.002 | 199 | 261 | AK-102 (C10-C25) | 211506 | 15 |
| 14 | 5.458 | -0.003 | 94 | 35 | AK-103 (C25-C36) | 812765 | 118 |
| 16 | 6.119 | 0.007 | 288 | 255 | OR.DIES (C10-C28) | 415037 | 28 |
| 18 | 6.700 | -0.029 | 819 | 3281 | OR.MOIL (C28-C40) | 864832 | 125 |
| 20 | 7.320 | 0.000 | 797 | 842 | | | |
| 22 | 7.877 | -0.001 | 1764 | 2549 | | | |
| 24 | 8.399 | -0.001 | 3053 | 1505 | | | |
| 25 | 8.644 | -0.006 | 3825 | 6453 | | | |
| 26 | 8.894 | -0.003 | 4110 | 2363 | | | |
| 28 | 9.390 | -0.013 | 4917 | 4630 | | | |
| 32 | 10.452 | 0.009 | 5279 | 2686 | | | |
| 34 | 10.951 | -0.009 | 5698 | 8911 | CREOSOT (C12-C22) | 89044 | 32 |
| Filter Peak | 12.896 | -0.010 | 3877 | 5460 | HYDRAUL (C24-C38) | 978650 | 86 |
| 36 | 11.458 | -0.008 | 5147 | 7257 | | | |
| 38 | 11.958 | 0.002 | 4897 | 4383 | | | |
| 40 | 12.427 | 0.001 | 4377 | 5354 | | | |
| o-terph | 6.900 | 0.006 | 518 | 518 | JET-A (C10-C18) | 41980 | 5 |
| triacon Surr | 9.916 | -0.022 | 153245 | 117991 | | | |

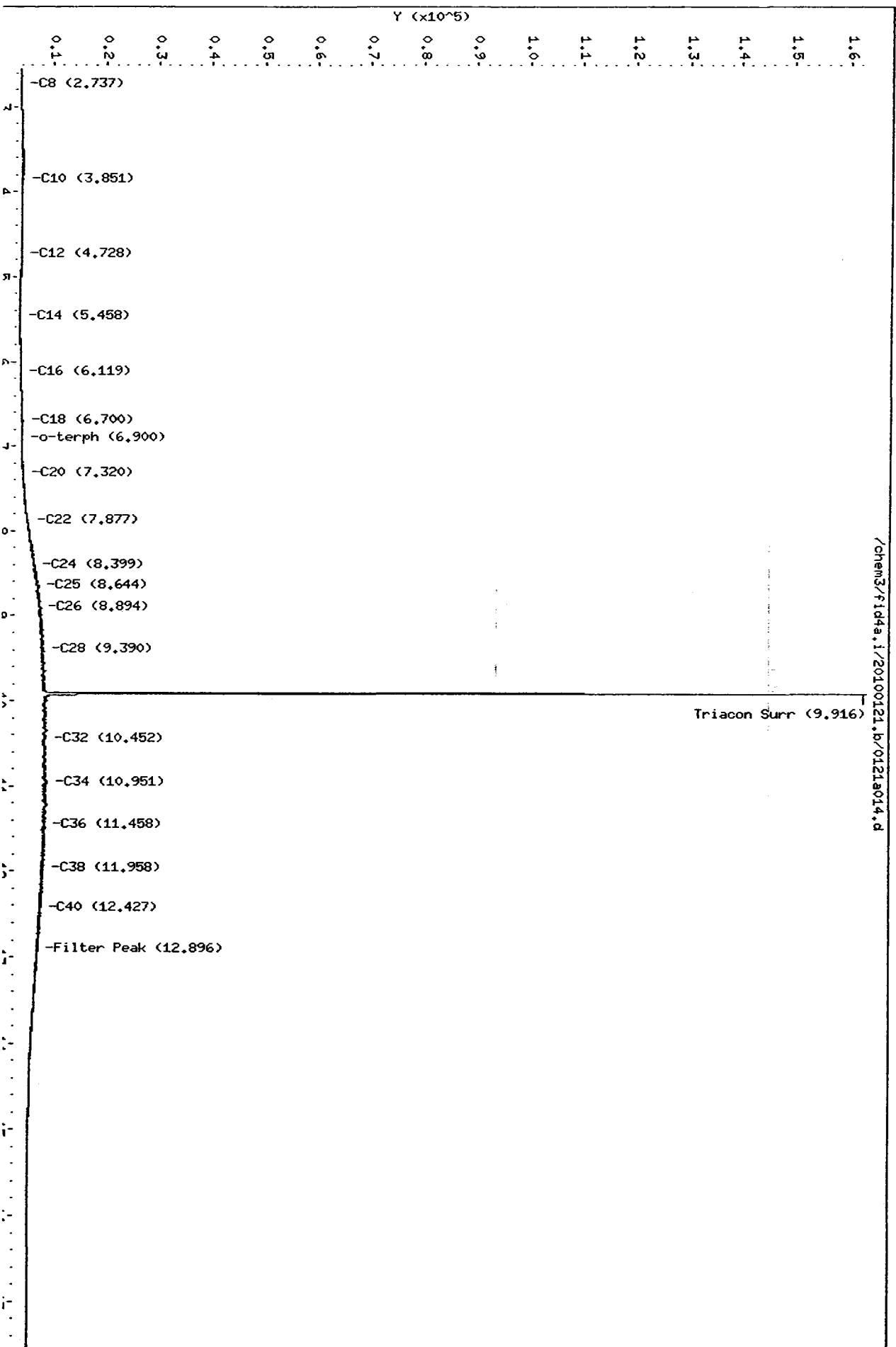
Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 518 | 0.0 | 0.1 |
| Triacontane | 117991 | 8.0 | 17.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a014.d
Date : 22-JAN-2010 01:30
Client ID: HOIL 100
Sample Info: HOIL 100
Column Phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a014.d

001159 001159

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a015.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar

ARI ID: MOIL 250
Client ID: MOIL 250
Injection: 22-JAN-2010 01:55

Report Date: 01/22/2010

Dilution Factor: 1

Macro: 21-JAN-2010

Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

| FID:4A RESULTS | | | | | | | |
|----------------|--------|--------|--------|--------|-------------------|------------|------|
| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
| Toluene | 2.509 | -0.008 | 122 | 20 | GAS (Tol-C12) | 32749 | 3 |
| 8 | 2.740 | 0.002 | 45 | 41 | DIESEL (C12-C24) | 333151 | 26 |
| 10 | 3.854 | 0.000 | 444 | 590 | M.OIL (C24-C38) | 2489044 | 268 |
| 12 | 4.726 | -0.004 | 213 | 165 | AK-102 (C10-C25) | 417609 | 29 |
| 14 | 5.462 | 0.001 | 118 | 176 | AK-103 (C25-C36) | 2085781 | 302 |
| 16 | 6.111 | -0.001 | 327 | 87 | OR.DIES (C10-C28) | 949210 | 63 |
| 18 | 6.745 | 0.016 | 599 | 595 | OR.MOIL (C28-C40) | 2181640 | 314 |
| 20 | 7.336 | 0.016 | 1385 | 2004 | | | |
| 22 | 7.882 | 0.004 | 3788 | 3428 | | | |
| 24 | 8.401 | 0.002 | 7472 | 6289 | | | |
| 25 | 8.661 | 0.011 | 9783 | 10104 | | | |
| 26 | 8.894 | -0.003 | 10481 | 3257 | | | |
| 28 | 9.407 | 0.004 | 12055 | 12193 | | | |
| 32 | 10.451 | 0.007 | 13377 | 16232 | | | |
| 34 | 10.958 | -0.002 | 14199 | 25237 | CREOSOT (C12-C22) | 149999 | 54 |
| Filter Peak | 12.910 | 0.004 | 8287 | 10422 | HYDRAUL (C24-C38) | 2489044 | 219 |
| 36 | 11.470 | 0.005 | 12668 | 11490 | | | |
| 38 | 11.951 | -0.004 | 11600 | 6763 | | | |
| 40 | 12.432 | 0.006 | 10348 | 5965 | | | |
| o-terph | 6.885 | -0.009 | 637 | 1141 | JET-A (C10-C18) | 47251 | 5 |
| triacon Surr | 9.925 | -0.013 | 357158 | 338233 | | | |

Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 1141 | 0.1 | 0.2 |
| Triacontane | 338233 | 23.0 | 51.1 |

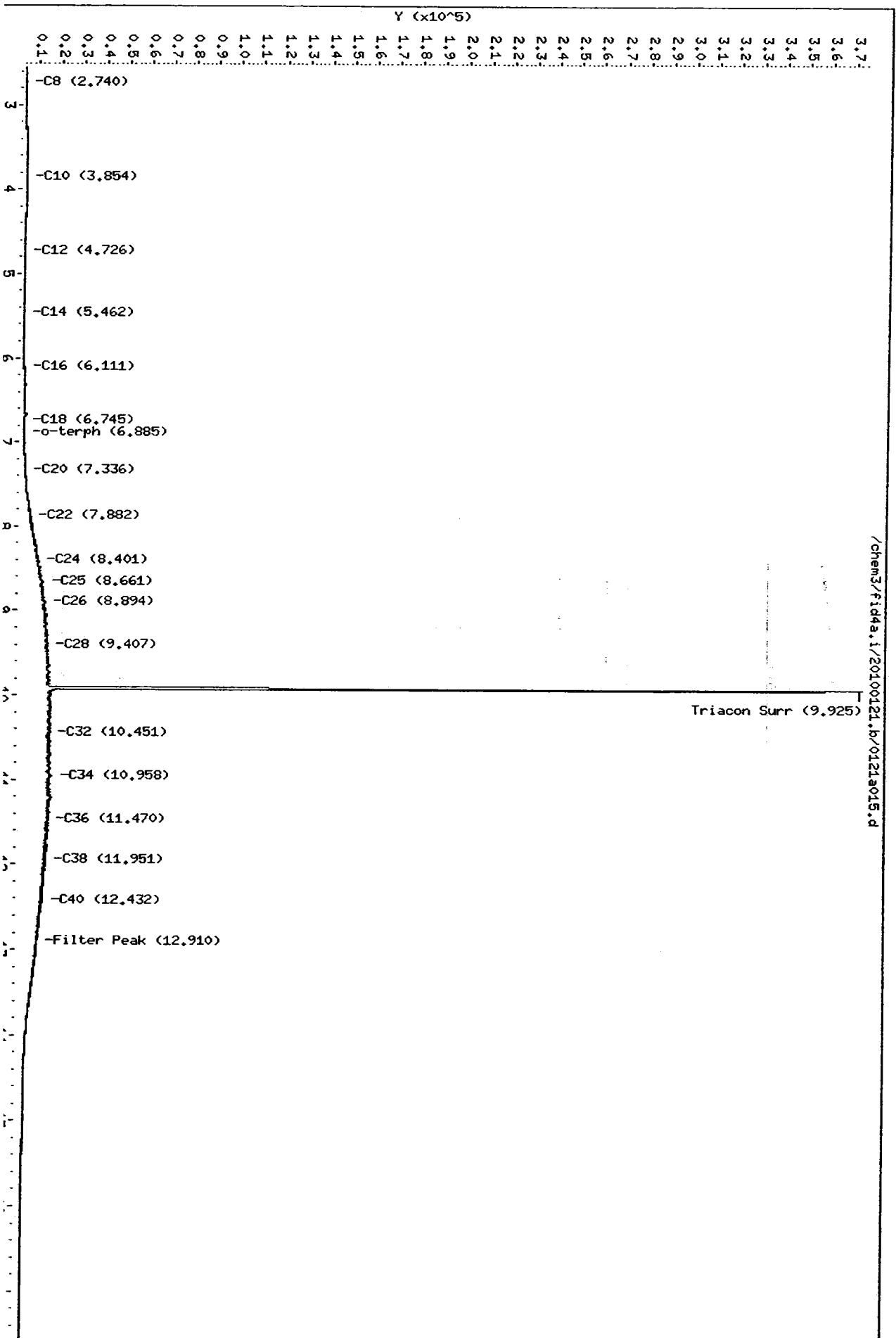
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a015.d
Date: 22-JAN-2010 01:55
Client ID: MOIL 250
Sample Info: MOIL 250

Column phase: RTX-1

Instrument: fid4a.i

Operator: ar
Column diameter: 2.00



15255 : 5 22

Analytical Resources Inc.
TPH Quantitation Report

ata file: /chem3/fid4a.i/20100121.b/0121a016.d
ethod: /chem3/fid4a.i/20100121.b/ftphfid4a.m
nstrument: fid4a.i

ARI ID: MOIL 500
Client ID: MOIL 500
Injection: 22-JAN-2010 02:21

perator: ar
eport Date: 01/22/2010
acro: 21-JAN-2010

Dilution Factor: 1

alibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|--------|--------|--------|--------|-------------------|------------|------|
| oluene | 2.498 | -0.020 | 136 | 248 | GAS (Tol-C12) | 32308 | 3 |
| 8 | 2.737 | -0.001 | 42 | 58 | DIESEL (C12-C24) | 530048 | 41 |
| 10 | 3.851 | -0.004 | 447 | 767 | M.OIL (C24-C38) | 4479434 | 482 |
| 12 | 4.737 | 0.008 | 214 | 324 | AK-102 (C10-C25) | 669255 | 46 |
| 14 | 5.465 | 0.004 | 130 | 155 | AK-103 (C25-C36) | 3739897 | 542 |
| 16 | 6.108 | -0.004 | 335 | 231 | OR.DIES (C10-C28) | 1577627 | 105 |
| 18 | 6.759 | 0.030 | 725 | 812 | OR.MOIL (C28-C40) | 3959317 | 570 |
| 20 | 7.326 | 0.006 | 2171 | 4070 | | | |
| 22 | 7.879 | 0.001 | 6751 | 7309 | | | |
| 24 | 8.396 | -0.004 | 13321 | 11732 | | | |
| 25 | 8.643 | -0.007 | 16900 | 13112 | | | |
| 26 | 8.889 | -0.008 | 18686 | 9477 | | | |
| 28 | 9.391 | -0.012 | 22628 | 15655 | | | |
| 32 | 10.436 | -0.008 | 25880 | 47866 | | | |
| 34 | 10.964 | 0.004 | 26630 | 15569 | CREOSOT (C12-C22) | 228436 | 82 |
| ilter Peak | 12.902 | -0.004 | 14490 | 17369 | HYDRAUL (C24-C38) | 4479434 | 395 |
| 36 | 11.472 | 0.007 | 23426 | 9152 | | | |
| 38 | 11.954 | -0.002 | 21723 | 23799 | | | |
| 40 | 12.422 | -0.003 | 18741 | 12235 | | | |
| -terph | 6.901 | 0.006 | 852 | 617 | JET-A (C10-C18) | 52243 | 6 |
| riacon Surr | 9.936 | -0.002 | 564797 | 639918 | | | |

=====
ange Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 617 | 0.0 | 0.1 |
| Triacontane | 639918 | 43.5 | 96.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Analytical Resources Inc.
TPH Quantitation Report

data file: /chem3/fid4a.i/20100121.b/0121a017.d
 Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
 Instrument: fid4a.i
 Operator: ar
 Report Date: 01/22/2010
 Macro: 21-JAN-2010
 Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 1000
 Client ID: MOIL 1000
 Injection: 22-JAN-2010 02:45
 Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|---------|-------------------|------------|------|
| Toluene | 2.537 | 0.020 | 98 | 43 | GAS (Tol-C12) | 30330 | 3 |
| 8 | 2.744 | 0.006 | 29 | 27 | DIESEL (C12-C24) | 1099002 | 85 |
| 10 | 3.851 | -0.004 | 406 | 287 | M.OIL (C24-C38) | 9679772 | 1041 |
| 12 | 4.719 | -0.010 | 219 | 294 | AK-102 (C10-C25) | 1432285 | 99 |
| 14 | 5.462 | 0.001 | 151 | 186 | AK-103 (C25-C36) | 8087289 | 1172 |
| 16 | 6.115 | 0.003 | 332 | 394 | OR.DIES (C10-C28) | 3449674 | 230 |
| 18 | 6.722 | -0.007 | 820 | 908 | OR.MOIL (C28-C40) | 8418341 | 1212 |
| 20 | 7.318 | -0.003 | 4258 | 5397 | | | |
| 22 | 7.876 | -0.002 | 13721 | 11362 | | | |
| 24 | 8.405 | 0.006 | 28142 | 28651 | | | |
| 25 | 8.654 | 0.004 | 36679 | 24988 | | | |
| 26 | 8.886 | -0.011 | 40542 | 59185 | | | |
| 28 | 9.412 | 0.009 | 48478 | 27259 | | | |
| 32 | 10.437 | -0.007 | 56852 | 32478 | | | |
| 34 | 10.957 | -0.004 | 55831 | 77098 | CREOSOT (C12-C22) | 418309 | 149 |
| Filter Peak | 12.902 | -0.003 | 23183 | 14904 | HYDRAUL (C24-C38) | 9679772 | 853 |
| 36 | 11.460 | -0.006 | 50603 | 33764 | | | |
| 38 | 11.951 | -0.005 | 45900 | 47020 | | | |
| 40 | 12.433 | 0.008 | 36775 | 19173 | | | |
| o-terph | 6.897 | 0.003 | 1438 | 3230 | JET-A (C10-C18) | 65616 | 7 |
| triacon Surr | 9.953 | 0.015 | 912202 | 1384778 | | | |

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
 NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3230 | 0.2 | 0.5 |
| Triacontane | 1384778 | 94.2 | 209.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a017.d

Date: 22-JAN-2010 02:45

Client ID: HQIL 1000

Sample Info: HQIL 1000

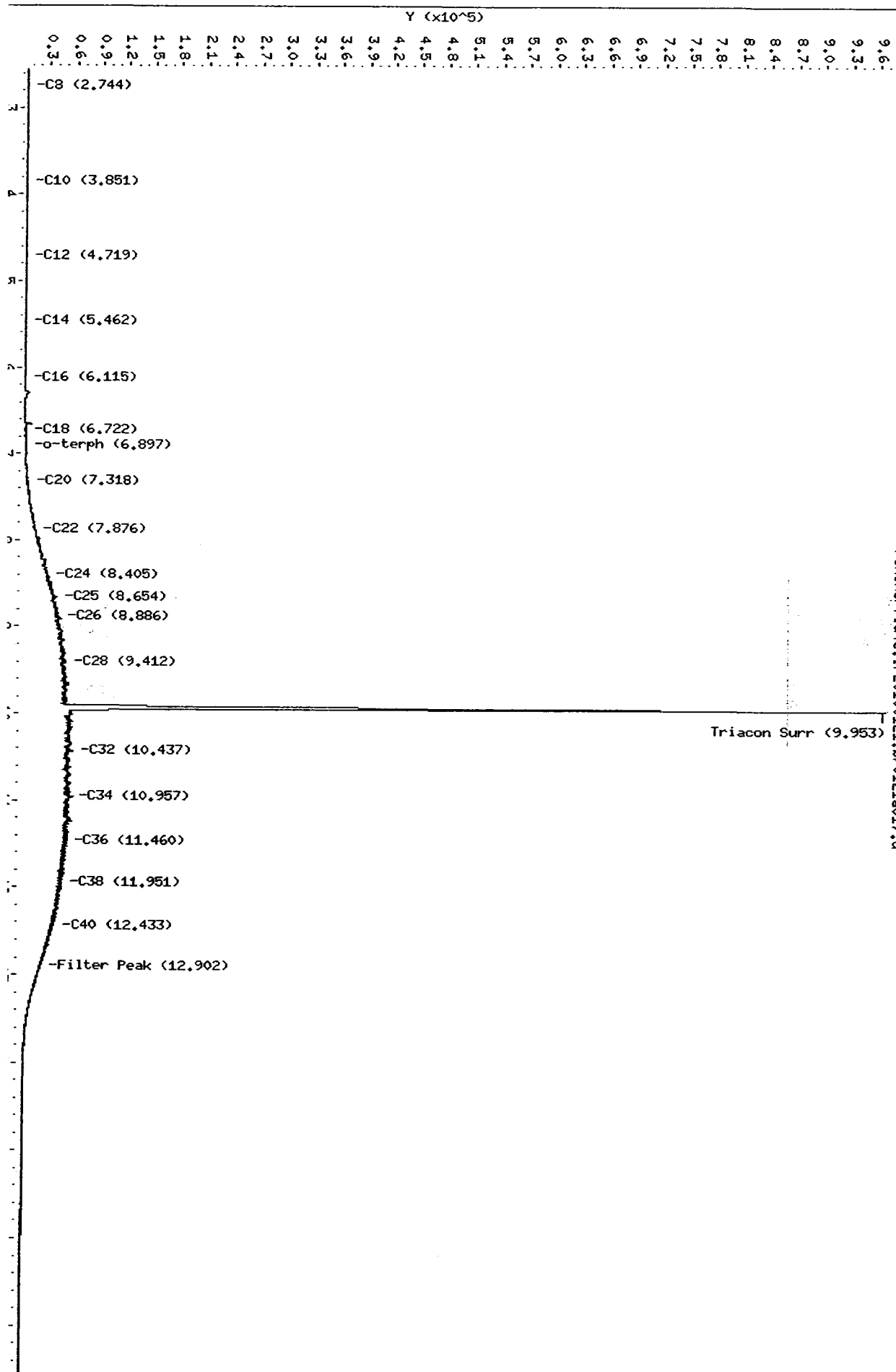
Column phase: RTX-1

Instrument: fid4a.i

Operator: ar

Column diameter: 2.00

/chem3/fid4a.i/20100121.b/0121a017.d



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a018.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 2500
Client ID: MOIL 2500
Injection: 22-JAN-2010 03:10
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|------|
| Toluene | 2.538 | 0.021 | 116 | 66 | GAS (Tol-C12) | 34254 | 3 |
| 8 | 2.739 | 0.001 | 36 | 13 | DIESEL (C12-C24) | 2488959 | 192 |
| 10 | 3.851 | -0.004 | 434 | 452 | M.OIL (C24-C38) | 22724861 | 2443 |
| 12 | 4.743 | 0.013 | 268 | 197 | AK-102 (C10-C25) | 3117620 | 215 |
| 14 | 5.447 | -0.014 | 233 | 294 | AK-103 (C25-C36) | 19284689 | 2794 |
| 16 | 6.117 | 0.005 | 467 | 892 | OR.DIES (C10-C28) | 7724108 | 516 |
| 18 | 6.738 | 0.009 | 1791 | 2848 | OR.MOIL (C28-C40) | 18802648 | 2707 |
| 20 | 7.315 | -0.005 | 9633 | 13558 | | | |
| 22 | 7.874 | -0.004 | 32239 | 27754 | | | |
| 24 | 8.395 | -0.004 | 65589 | 58543 | | | |
| 25 | 8.656 | 0.005 | 85256 | 95936 | | | |
| 26 | 8.882 | -0.015 | 96185 | 110991 | | | |
| 28 | 9.394 | -0.009 | 113066 | 164198 | | | |
| 32 | 10.452 | 0.009 | 134526 | 149821 | | | |
| 34 | 10.966 | 0.005 | 135068 | 154012 | CREOSOT (C12-C22) | 934449 | 333 |
| Filter Peak | 12.895 | -0.011 | 9025 | 8122 | HYDRAUL (C24-C38) | 22724861 | 2003 |
| 36 | 11.477 | 0.012 | 121242 | 95922 | | | |
| 38 | 11.951 | -0.005 | 86585 | 142489 | | | |
| 40 | 12.408 | -0.018 | 35971 | 59868 | | | |
| o-terph | 6.892 | -0.002 | 2599 | 3851 | JET-A (C10-C18) | 101803 | 11 |
| triacon Surr | 9.987 | 0.049 | 1450229 | 3385985 | | | |

Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3851 | 0.2 | 0.5 |
| Triacontane | 3385985 | 230.4 | 512.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a019.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: MOIL 5000
Client ID: MOIL 5000
Injection: 22-JAN-2010 03:35

Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|------|
| Toluene | 2.518 | 0.000 | 171 | 35 | GAS (Tol-C12) | 45819 | 4 |
| 8 | 2.728 | -0.011 | 82 | 102 | DIESEL (C12-C24) | 4775742 | 369 |
| 10 | 3.854 | -0.001 | 603 | 899 | M.OIL (C24-C38) | 41718277 | 4485 |
| 12 | 4.723 | -0.007 | 476 | 730 | AK-102 (C10-C25) | 6091127 | 420 |
| 14 | 5.457 | -0.004 | 453 | 1102 | AK-103 (C25-C36) | 38199104 | 5534 |
| 16 | 6.111 | -0.001 | 668 | 1114 | OR.DIES (C10-C28) | 16274629 | 1086 |
| 18 | 6.730 | 0.001 | 3619 | 5510 | OR.MOIL (C28-C40) | 30853294 | 4443 |
| 20 | 7.313 | -0.007 | 20362 | 28698 | | | |
| 22 | 7.877 | -0.001 | 63109 | 62112 | | | |
| 24 | 8.396 | -0.004 | 131989 | 140713 | | | |
| 25 | 8.649 | -0.002 | 167729 | 128743 | | | |
| 26 | 8.894 | -0.003 | 203262 | 296102 | | | |
| 28 | 9.403 | 0.000 | 233778 | 387106 | | | |
| 32 | 10.435 | -0.008 | 265605 | 357546 | | | |
| 34 | 10.956 | -0.004 | 240715 | 382061 | CREOSOT (C12-C22) | 1716171 | 612 |
| Filter Peak | 12.904 | -0.002 | 7242 | 8678 | HYDRAUL (C24-C38) | 41718277 | 3678 |
| 36 | 11.456 | -0.009 | 151598 | 241001 | | | |
| 38 | 11.961 | 0.005 | 45544 | 71052 | | | |
| 40 | 12.434 | 0.008 | 13257 | 13927 | | | |
| o-terph | 6.889 | -0.006 | 4692 | 10159 | JET-A (C10-C18) | 169160 | 19 |
| triacon Surr | 10.031 | 0.093 | 1977972 | 6917579 | | | |

=====
Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

| Surrogate | Area | Amount | %Rec |
|--------------|---------|--------|--------|
| o-Terphenyl | 10159 | 0.6 | 1.4 |
| Triaconthane | 6917579 | 470.7 | 1046.1 |

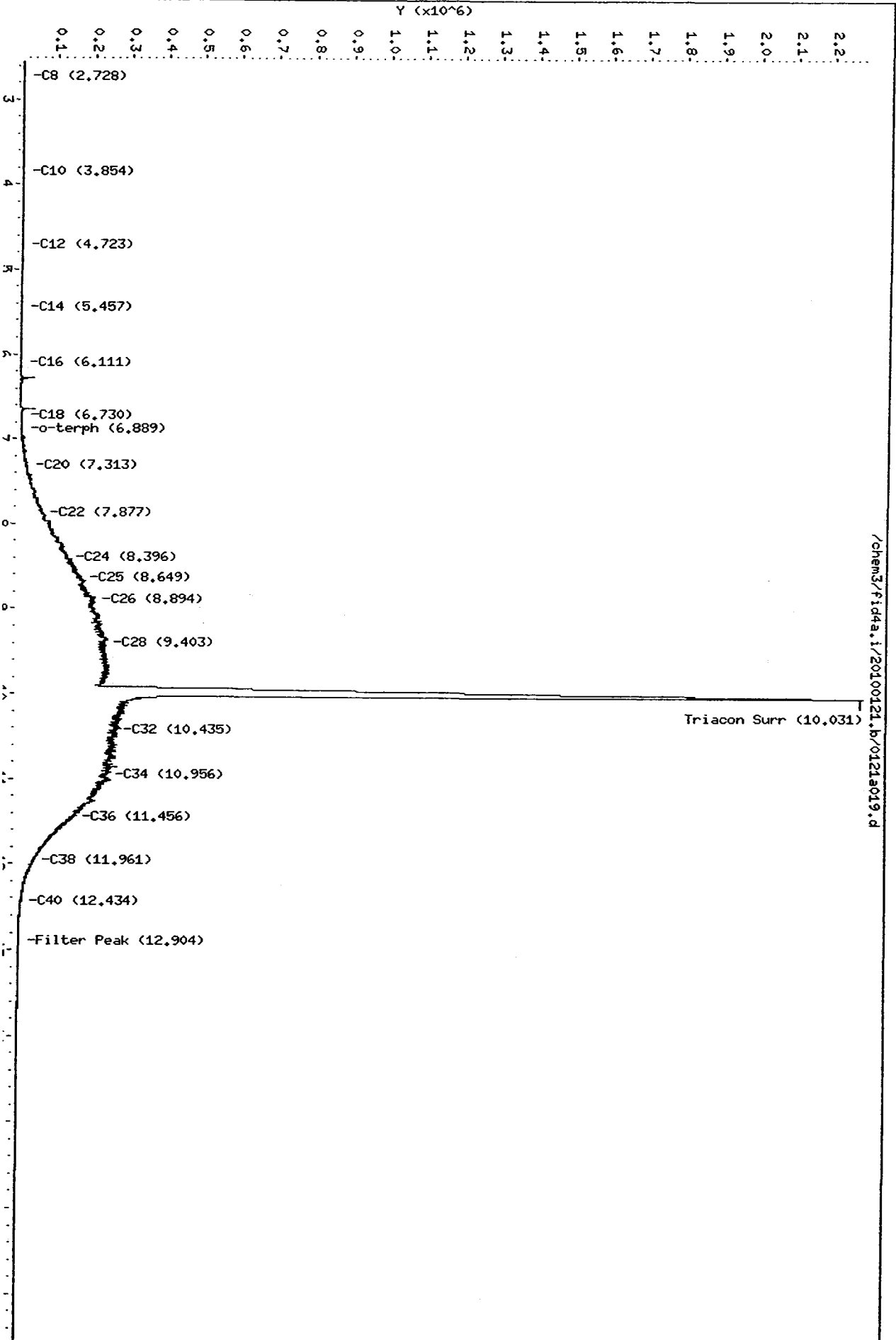
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a019.d
Date : 22-JAN-2010 03:35
Client ID: HOIL 5000
Sample Info: HOIL 5000

Column phase: RTX-1

Instrument: fid4a.1

Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a019.d

00205 : 5940

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a020.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL ICV
Client ID:
Injection: 22-JAN-2010 04:01
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| oluene | 2.519 | 0.001 | 111 | 54 | GAS (Tol-C12) | 31024 | 3 |
| 8 | 2.740 | 0.002 | 48 | 52 | DIESEL (C12-C24) | 499371 | 39 |
| 10 | 3.848 | -0.007 | 410 | 980 | M.OIL (C24-C38) | 4665320 | 502 |
| 12 | 4.735 | 0.005 | 171 | 222 | AK-102 (C10-C25) | 640465 | 44 |
| 14 | 5.464 | 0.003 | 123 | 93 | AK-103 (C25-C36) | 3789711 | 549 |
| 16 | 6.107 | -0.006 | 319 | 239 | OR.DIES (C10-C28) | 1490007 | 99 |
| 18 | 6.728 | -0.001 | 723 | 999 | OR.MOIL (C28-C40) | 4362188 | 628 |
| 20 | 7.326 | 0.005 | 2047 | 3667 | | | |
| 22 | 7.881 | 0.003 | 5913 | 4299 | | | |
| 24 | 8.392 | -0.007 | 11527 | 15892 | | | |
| 25 | 8.658 | 0.007 | 14708 | 10042 | | | |
| 26 | 8.897 | 0.000 | 16885 | 11518 | | | |
| 28 | 9.412 | 0.009 | 20397 | 34972 | | | |
| 32 | 10.452 | 0.009 | 24454 | 20524 | | | |
| 34 | 10.960 | -0.001 | 29234 | 18762 | CREOSOT (C12-C22) | 216550 | 77 |
| Filter Peak | 12.906 | 0.000 | 19221 | 10884 | HYDRAUL (C24-C38) | 4665320 | 411 |
| 36 | 11.474 | 0.008 | 28754 | 16830 | | | |
| 38 | 11.957 | 0.001 | 27199 | 17560 | | | |
| 40 | 12.423 | -0.003 | 24197 | 11859 | | | |
| -terph | 6.909 | 0.014 | 1182 | 2582 | JET-A (C10-C18) | 58148 | 6 |
| triacon Surr | 9.934 | -0.004 | 602155 | 670271 | | | |

=====
Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

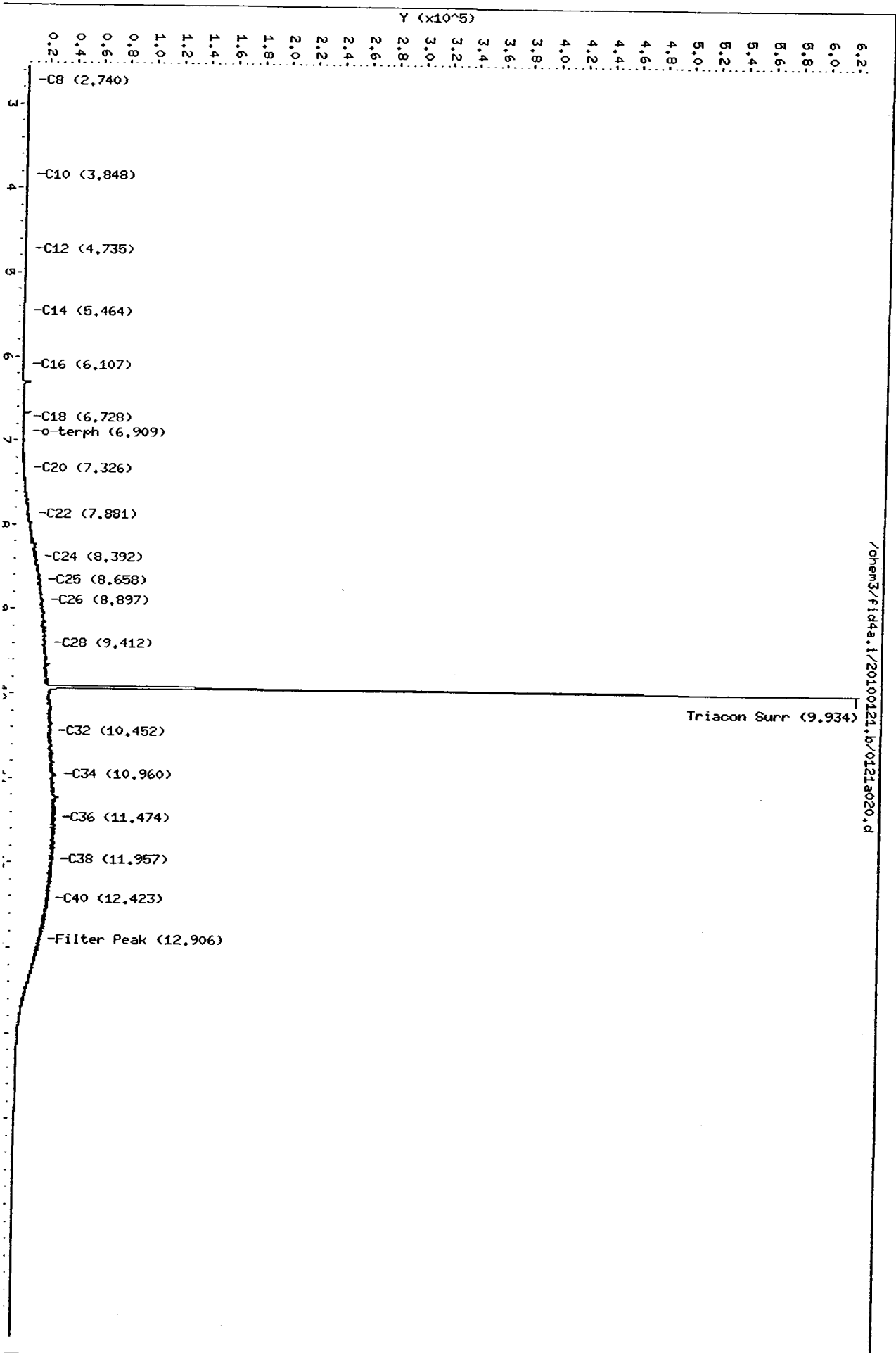
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 2582 | 0.2 | 0.4 |
| Triacontane | 670271 | 45.6 | 101.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 15852.0 | 22-DEC-2009 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 11843.7 | 10-DEC-2009 |
| Diesel | 12946.9 | 22-DEC-2009 |
| Motor Oil | 9302.5 | 21-JAN-2009 |
| AK102 | 14509.2 | 22-DEC-2009 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| OR Diesel | 14983.0 | |
| OR M.Oil | 6945.0 | |
| Creosote | 2802.7 | 21-JAN-2010 |
| Hydraulic | 11343.7 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100121.b/0121a020.d
Date: 22-JAN-2010 04:01
Client ID:
Sample Info: MOIL ICV

Column phase: RTX-1

Operator: ar
Instrument: fid4a.i
Column diameter: 2.00



M 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a002.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: RT
Client ID: RT
Injection: 01-APR-2010 14:05

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|------|
| Toluene | 2.197 | 0.000 | 240440 | 243552 | GAS (Tol-C12) | 838129 | 106 |
| C8 | 2.505 | 0.000 | 124746 | 156080 | DIESEL (C12-C24) | 1273536 | 112 |
| C10 | 3.782 | 0.000 | 128204 | 163216 | M.OIL (C24-C38) | 1651387 | 178 |
| C12 | 4.693 | 0.000 | 71958 | 68991 | AK-102 (C10-C25) | 1662030 | 132 |
| C14 | 5.422 | 0.000 | 144644 | 169093 | AK-103 (C25-C36) | 1478835 | 214 |
| C16 | 6.059 | 0.000 | 219684 | 192787 | | | |
| C18 | 6.662 | 0.000 | 238060 | 200449 | | | |
| C20 | 7.251 | 0.000 | 229261 | 204367 | | | |
| C22 | 7.800 | 0.000 | 277464 | 207826 | | | |
| C24 | 8.313 | 0.000 | 309027 | 210960 | | | |
| C25 | 8.561 | 0.000 | 432177 | 293496 | | | |
| C26 | 8.805 | 0.000 | 268153 | 215572 | | | |
| C28 | 9.297 | 0.000 | 282238 | 218455 | | | |
| C32 | 10.316 | 0.000 | 241686 | 234779 | | | |
| C34 | 10.826 | 0.000 | 230756 | 237922 | BUNKERC (C10-C38) | 3311721 | 502 |
| Filter Peak | 12.865 | 0.000 | 2104 | 793 | | | |
| C36 | 11.325 | 0.000 | 223031 | 219367 | | | |
| C38 | 11.808 | 0.000 | 120396 | 151149 | | | |
| C40 | 12.282 | 0.000 | 36405 | 55372 | | | |
| o-terph | 6.822 | 0.000 | 708718 | 714616 | JET-A (C10-C18) | 1013809 | 111 |
| Triacon Surr | 9.818 | 0.000 | 661455 | 771600 | | | |

Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
 NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 714616 | 51.8 | 115.0 |
| Triacontane | 771600 | 52.5 | 116.7 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

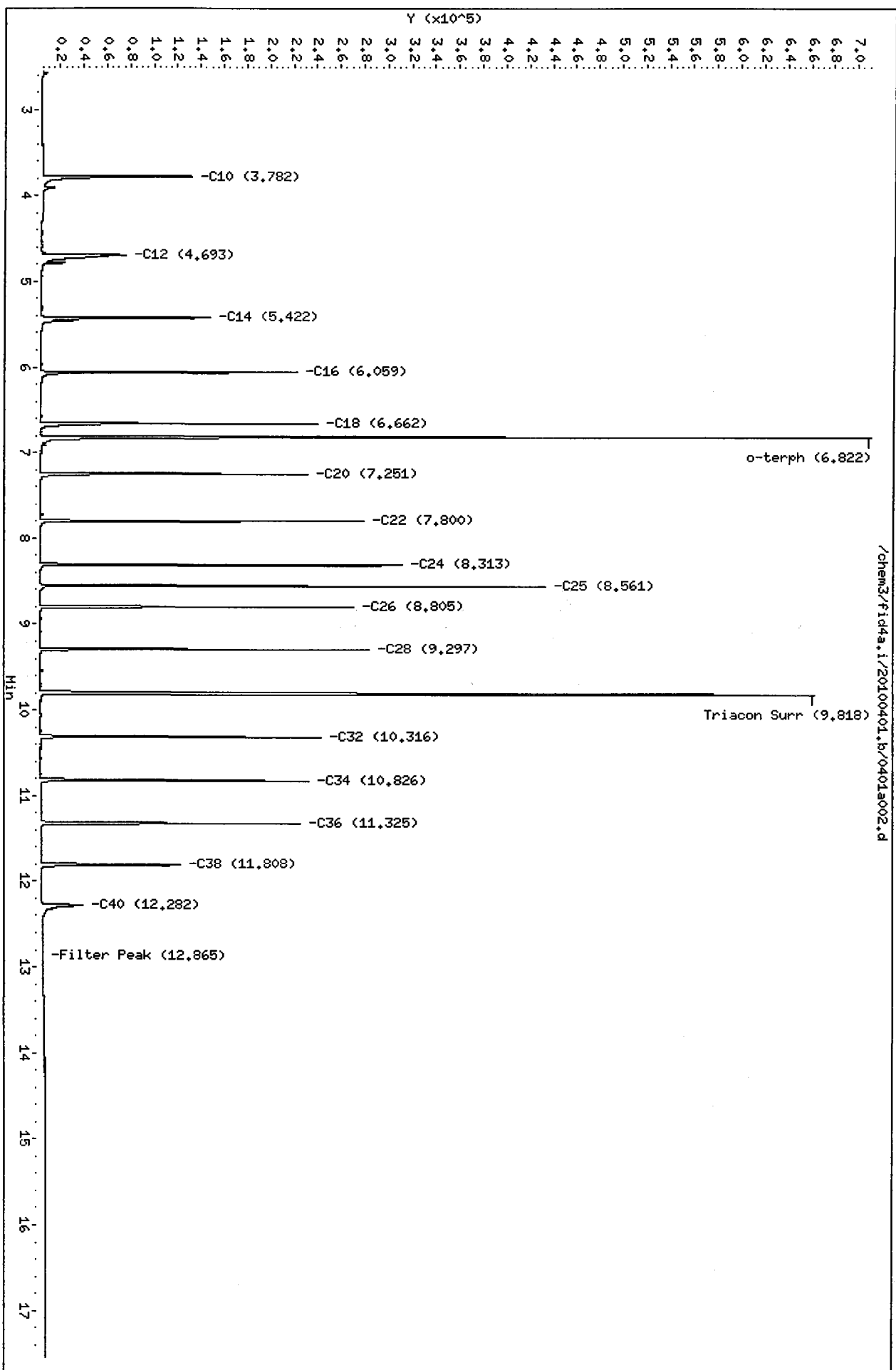
Data File: /chem3/fid4a.i/20100401.b/0401a002.d
Date : 01-APR-2010 14:05

Client ID: RT
Sample Info: RT

Column phase: RTX-1

Operator: ar
Column diameter: 2.00

Instrument: fid4a.i



011200 : 000113

M 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a003.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: IB
Client ID: IB
Injection: 01-APR-2010 14:30

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.176 | -0.021 | 740 | 1074 | GAS (Tol-C12) | 57013 | 7 |
| C8 | 2.503 | -0.002 | 265 | 349 | DIESEL (C12-C24) | 102547 | 9 |
| C10 | 3.793 | 0.011 | 680 | 931 | M.OIL (C24-C38) | 134118 | 14 |
| C12 | 4.700 | 0.007 | 369 | 564 | AK-102 (C10-C25) | 130375 | 10 |
| C14 | 5.422 | -0.001 | 162 | 71 | AK-103 (C25-C36) | 106805 | 15 |
| C16 | 6.059 | 0.000 | 72 | 74 | | | |
| C18 | 6.656 | -0.006 | 124 | 201 | | | |
| C20 | 7.241 | -0.010 | 1179 | 605 | | | |
| C22 | 7.797 | -0.003 | 168 | 98 | | | |
| C24 | 8.307 | -0.006 | 192 | 228 | | | |
| C25 | 8.562 | 0.002 | 527 | 668 | | | |
| C26 | 8.797 | -0.007 | 238 | 227 | | | |
| C28 | 9.299 | 0.002 | 507 | 1116 | | | |
| C32 | 10.313 | -0.003 | 663 | 425 | | | |
| C34 | 10.814 | -0.012 | 689 | 939 | BUNKERC (C10-C38) | 262950 | 40 |
| Filter Peak | 12.864 | -0.001 | 2150 | 1112 | | | |
| C36 | 11.318 | -0.007 | 803 | 842 | | | |
| C38 | 11.807 | 0.000 | 1099 | 717 | | | |
| C40 | 12.275 | -0.006 | 1425 | 1148 | | | |
| o-terph | 6.820 | -0.002 | 676906 | 739273 | JET-A (C10-C18) | 38661 | 4 |
| Triacon Surr | 9.813 | -0.005 | 553454 | 669538 | | | |

Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 739273 | 53.5 | 119.0 |
| Triacontane | 669538 | 45.6 | 101.2 |

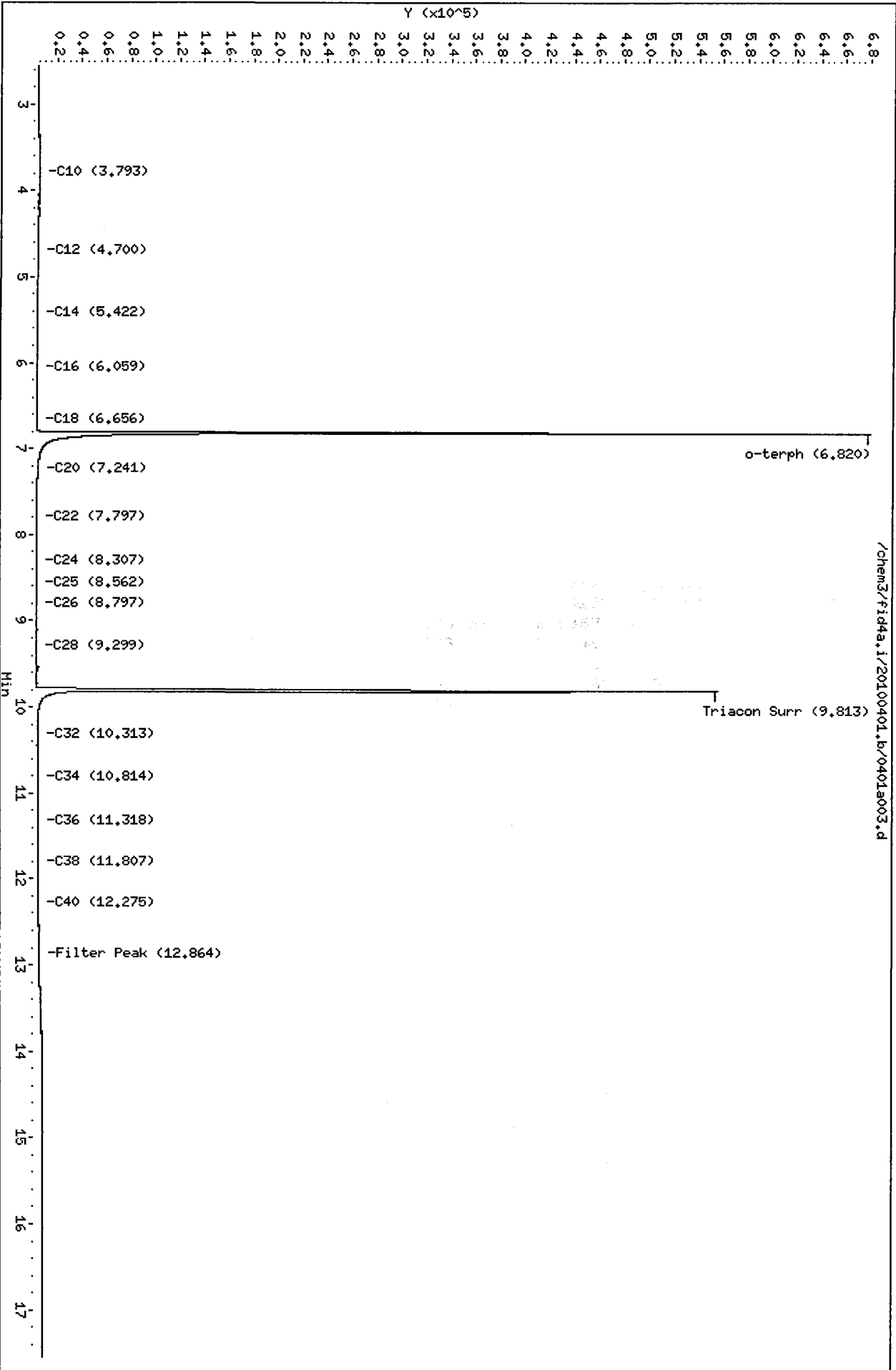
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a003.d
Date: 01-APR-2010 14:30

Client ID: IB
Sample Info: IB

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



151200 : 00215

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER
 ICal Date: 22-JAN-2010 Project: LLA
 CCal Date: 01-APR-2010 SDG No.: QP69
 Analysis Time: 14:55 Lab ID: DIESEL#1
 Instrument: FID4A.I Lab File Name: 0401a004.d

| Diesel Range | Area* | CalcAmnt | NomAmnt | % D |
|------------------|---------|----------|---------|------|
| WADies (C12-C24) | 2699646 | 237.5 | 250 | -5.0 |
| AK102 (C10-C25) | 3011052 | 238.4 | 250 | -4.6 |
| Terphenyl | 564528 | 40.9 | 45 | -9.1 |

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

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

ms 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a004.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL#1
Client ID: DIESEL#1
Injection: 01-APR-2010 14:55
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.170 | -0.027 | 350 | 924 | GAS (Tol-C12) | 373183 | 47 |
| C8 | 2.518 | 0.013 | 319 | 506 | DIESEL (C12-C24) | 2699646 | 237 |
| C10 | 3.774 | -0.008 | 2836 | 5185 | M.OIL (C24-C38) | 116664 | 13 |
| C12 | 4.701 | 0.008 | 17297 | 29572 | AK-102 (C10-C25) | 3011052 | 238 |
| C14 | 5.414 | -0.008 | 40407 | 59103 | AK-103 (C25-C36) | 83517 | 12 |
| C16 | 6.053 | -0.006 | 94358 | 67813 | | | |
| C18 | 6.660 | -0.002 | 78908 | 79162 | | | |
| C20 | 7.250 | -0.001 | 38857 | 54915 | | | |
| C22 | 7.802 | 0.002 | 4624 | 1632 | | | |
| C24 | 8.313 | 0.000 | 2317 | 722 | | | |
| C25 | 8.556 | -0.004 | 1418 | 1676 | | | |
| C26 | 8.817 | 0.013 | 848 | 742 | | | |
| C28 | 9.298 | 0.001 | 396 | 396 | | | |
| C32 | 10.313 | -0.002 | 320 | 233 | | | |
| C34 | 10.835 | 0.009 | 409 | 932 | BUNKERC (C10-C38) | 3112270 | 472 |
| Filter Peak | 12.858 | -0.006 | 1786 | 1839 | | | |
| C36 | 11.320 | -0.005 | 873 | 3850 | | | |
| C38 | 11.808 | 0.000 | 781 | 491 | | | |
| C40 | 12.277 | -0.004 | 1124 | 1607 | | | |
| o-terph | 6.821 | -0.001 | 696802 | 564528 | JET-A (C10-C18) | 2185265 | 240 |
| Triacon Surr | 9.815 | -0.003 | 736 | 2315 | | | |

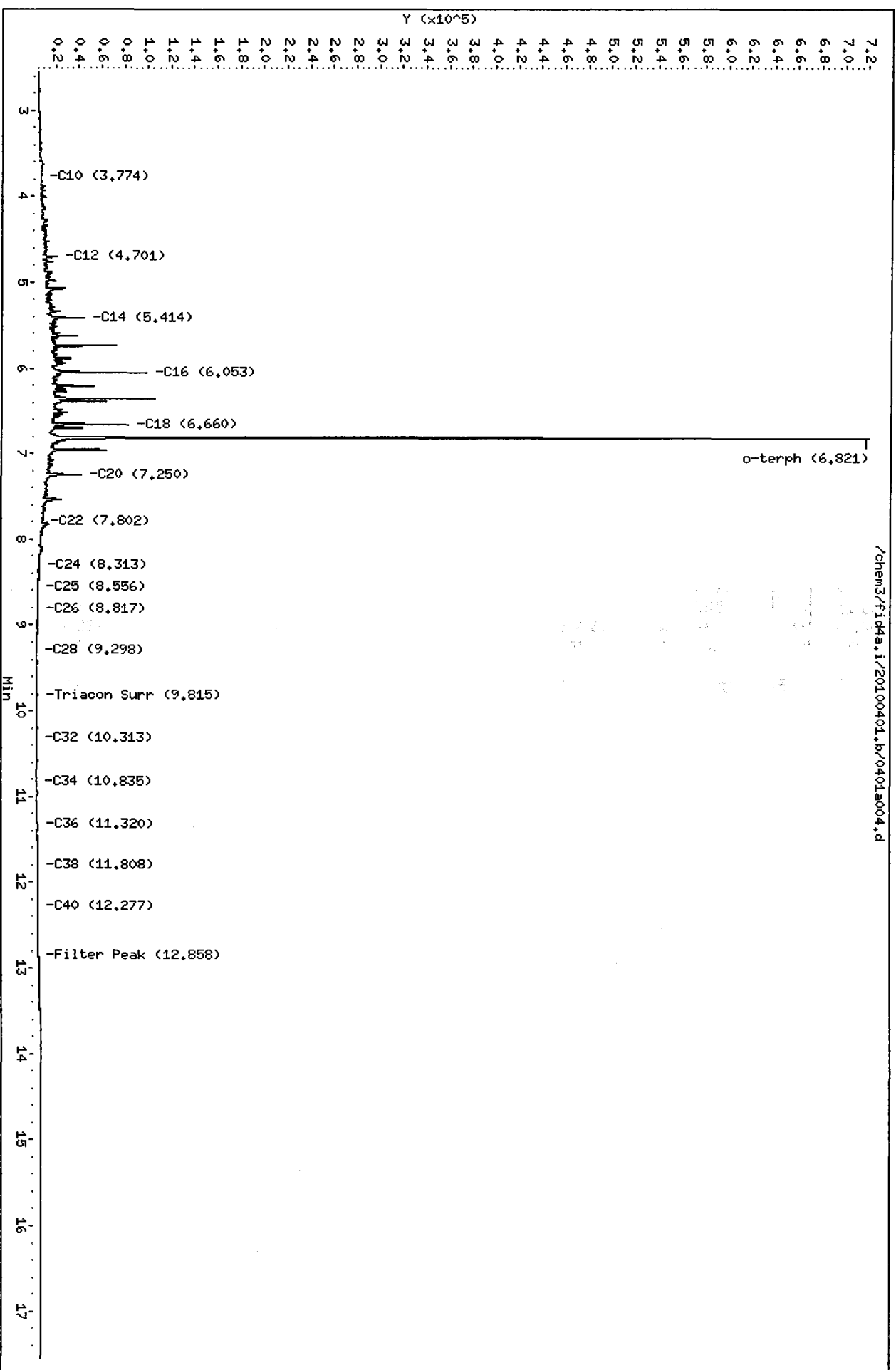
Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 564528 | 40.9 | 90.9 |
| Triacotane | 2315 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a004.d
Date : 01-APR-2010 14:55
Client ID: DIESEL#1
Sample Info: DIESEL#1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER
 ICal Date: 21-JAN-2010 Project: LLA
 CCal Date: 01-APR-2010 SDG No.: QP69
 Analysis Time: 15:19 Lab ID: MOIL#1
 Instrument: FID4A.I Lab File Name: 0401a005.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|-------|
| WAMoil (C24-C38) | 4134170 | 444.4 | 500 | -11.1 |
| AK103 (C25-C36) | 3568325 | 517.0 | 500 | 3.4 |
| n-Triacontane | 611901 | 41.6 | 45 | -7.5 |

* 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

Ms 415710

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a005.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: MOIL#1
Client ID: MOIL#1
Injection: 01-APR-2010 15:19
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.174 | -0.023 | 670 | 1769 | GAS (Tol-C12) | 48775 | 6 |
| C8 | 2.493 | -0.012 | 200 | 497 | DIESEL (C12-C24) | 481482 | 42 |
| C10 | 3.789 | 0.008 | 601 | 413 | M.OIL (C24-C38) | 4134170 | 444 |
| C12 | 4.701 | 0.008 | 290 | 584 | AK-102 (C10-C25) | 618616 | 49 |
| C14 | 5.446 | 0.024 | 127 | 158 | AK-103 (C25-C36) | 3568325 | 517 |
| C16 | 6.061 | 0.002 | 32 | 10 | | | |
| C18 | 6.620 | -0.041 | 3087 | 4842 | | | |
| C20 | 7.251 | 0.001 | 1532 | 568 | | | |
| C22 | 7.802 | 0.002 | 6461 | 3402 | | | |
| C24 | 8.308 | -0.004 | 13009 | 9512 | | | |
| C25 | 8.565 | 0.005 | 17354 | 11869 | | | |
| C26 | 8.801 | -0.004 | 18398 | 9699 | | | |
| C28 | 9.299 | 0.002 | 21358 | 11836 | | | |
| C32 | 10.310 | -0.006 | 27241 | 17932 | | | |
| C34 | 10.829 | 0.003 | 25007 | 11708 | BUNKERC (C10-C38) | 4638546 | 703 |
| Filter Peak | 12.867 | 0.002 | 4391 | 2076 | | | |
| C36 | 11.318 | -0.007 | 20987 | 22106 | | | |
| C38 | 11.807 | 0.000 | 13548 | 6199 | | | |
| C40 | 12.280 | -0.001 | 8049 | 4763 | | | |
| o-terph | 6.829 | 0.007 | 266 | 228 | JET-A (C10-C18) | 42179 | 5 |
| Triacon Surr | 9.820 | 0.002 | 525183 | 611901 | | | |

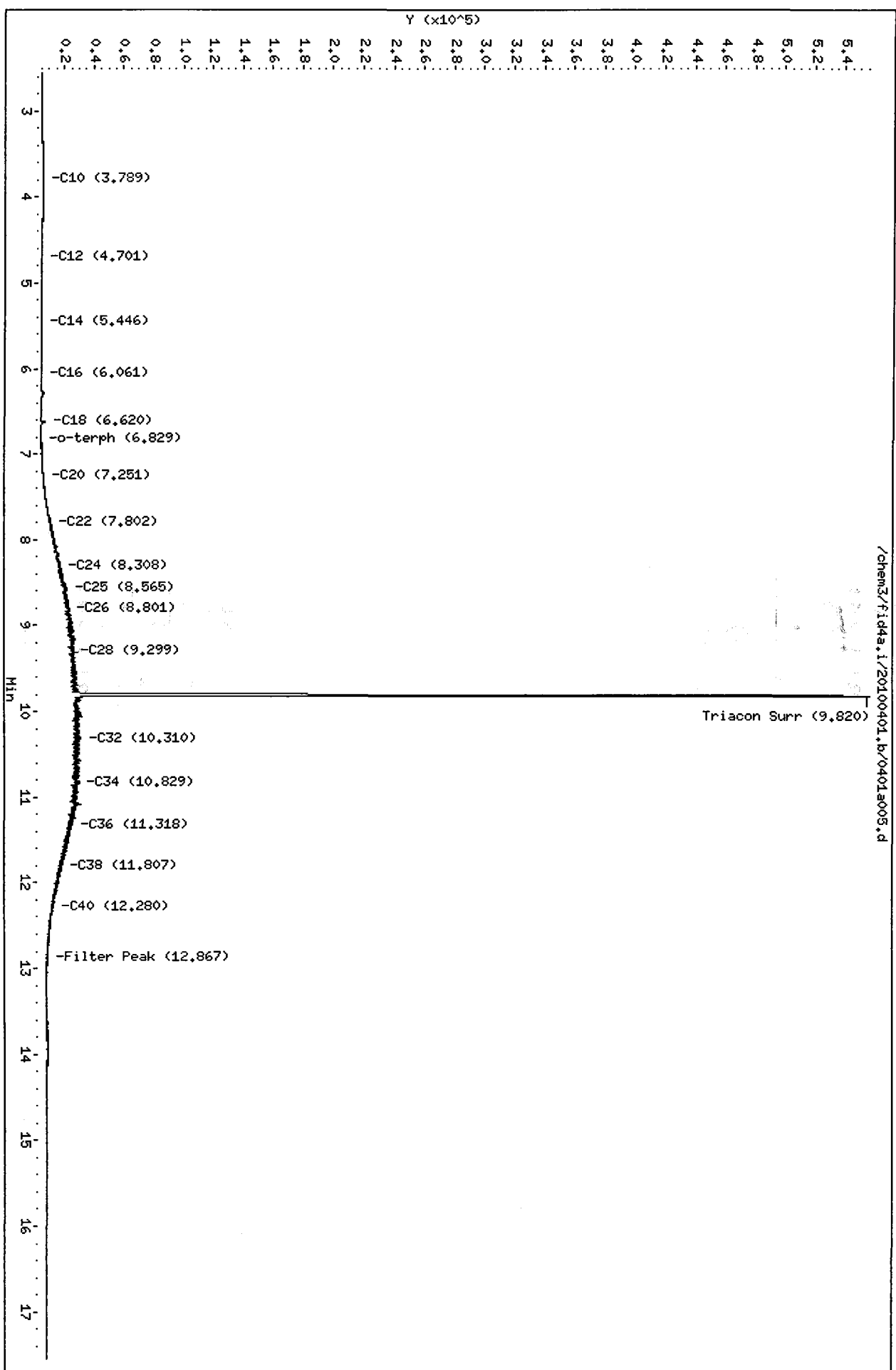
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 228 | 0.0 | 0.0 |
| Triacontane | 611901 | 41.6 | 92.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a005.d
Date : 01-APR-2010 15:19
Client ID: HOIL#1
Sample Info: HOIL#1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100401.b/0401a005.d

02/21/2010 15:19

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER
 ICal Date: 22-JAN-2010 Project: LLA
 CCal Date: 01-APR-2010 SDG No.: QP69
 Analysis Time: 20:21 Lab ID: DIESEL#2
 Instrument: FID4A.I Lab File Name: 0401a017.d

| Diesel Range | Area* | CalcAmnt | NomAmnt | % D |
|------------------|---------|----------|---------|------|
| WADies (C12-C24) | 2738743 | 240.9 | 250 | -3.6 |
| AK102 (C10-C25) | 3059060 | 242.2 | 250 | -3.1 |
| Terphenyl | 575171 | 41.7 | 45 | -7.4 |

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

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

M 9/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a017.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL#2
Client ID: DIESEL#2
Injection: 01-APR-2010 20:21
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.169 | -0.028 | 356 | 1071 | GAS (Tol-C12) | 383883 | 49 |
| C8 | 2.520 | 0.015 | 346 | 553 | DIESEL (C12-C24) | 2738743 | 241 |
| C10 | 3.774 | -0.007 | 2935 | 5609 | M.OIL (C24-C38) | 76441 | 8 |
| C12 | 4.700 | 0.008 | 18107 | 30188 | AK-102 (C10-C25) | 3059060 | 242 |
| C14 | 5.413 | -0.009 | 40182 | 63066 | AK-103 (C25-C36) | 49780 | 7 |
| C16 | 6.053 | -0.006 | 93380 | 67880 | | | |
| C18 | 6.658 | -0.003 | 87480 | 79893 | | | |
| C20 | 7.249 | -0.001 | 38315 | 63144 | | | |
| C22 | 7.800 | 0.001 | 4690 | 3105 | | | |
| C24 | 8.304 | -0.008 | 2408 | 3262 | | | |
| C25 | 8.557 | -0.004 | 1373 | 1550 | | | |
| C26 | 8.791 | -0.014 | 829 | 1057 | | | |
| C28 | 9.308 | 0.011 | 255 | 127 | | | |
| C32 | 10.315 | 0.000 | 124 | 153 | | | |
| C34 | 10.829 | 0.003 | 179 | 278 | BUNKERC (C10-C38) | 3119326 | 473 |
| Filter Peak | 12.869 | 0.004 | 1355 | 804 | | | |
| C36 | 11.329 | 0.004 | 665 | 2963 | | | |
| C38 | 11.814 | 0.007 | 489 | 478 | | | |
| C40 | 12.284 | 0.003 | 774 | 682 | | | |
| o-terph | 6.819 | -0.003 | 722691 | 575171 | JET-A (C10-C18) | 2205547 | 242 |
| Triacon Surr | 9.819 | 0.002 | 591 | 1710 | | | |

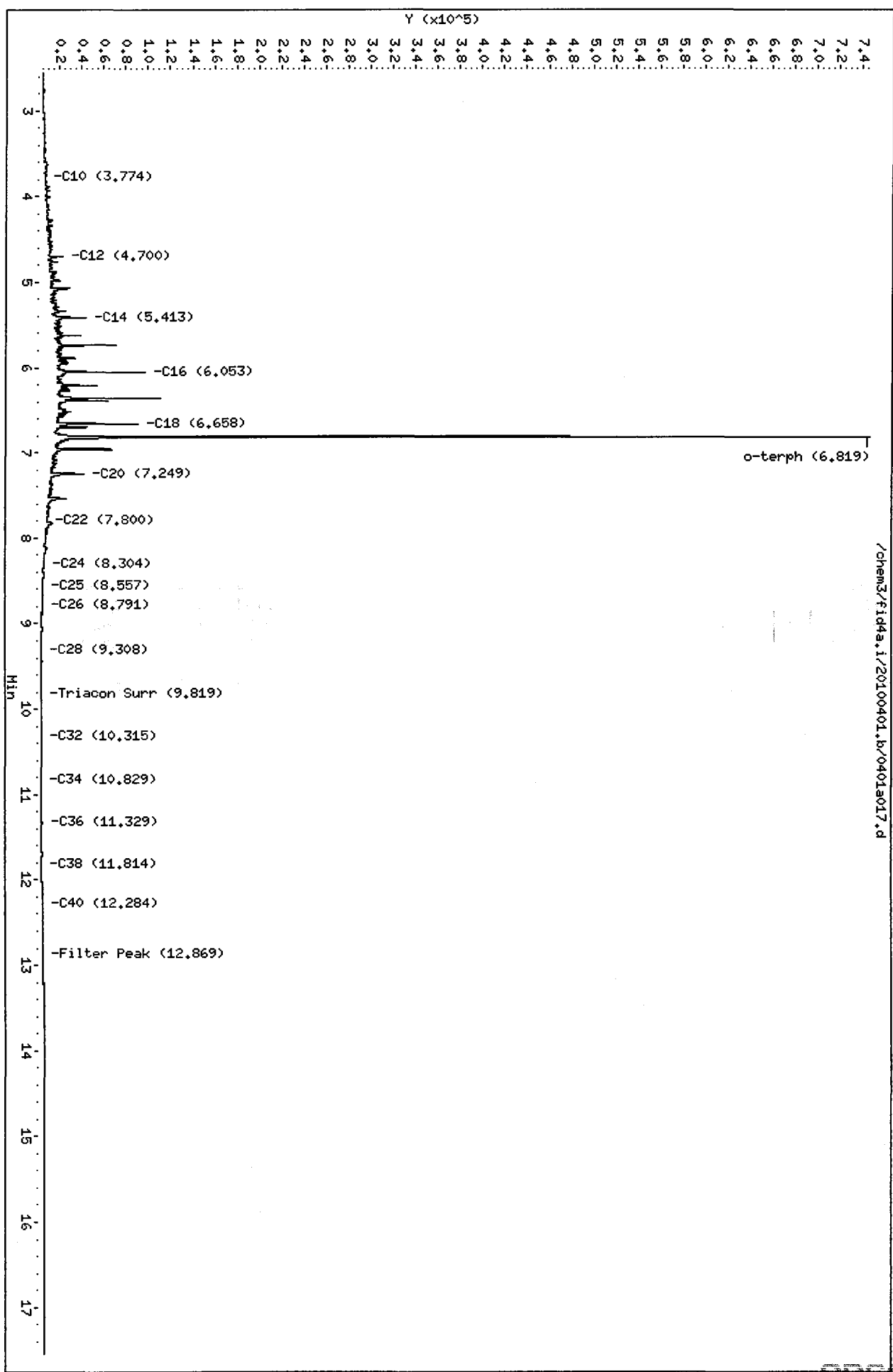
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 575171 | 41.7 | 92.6 |
| Triacotane | 1710 | 0.1 | 0.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a017.d
Date : 01-APR-2010 20:21
Client ID: DIESEL#2
Sample Info: DIESEL#2
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



11 12 13 14 15 16 17

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER
ICal Date: 21-JAN-2010 Project: LLA
CCal Date: 01-APR-2010 SDG No.: QP69
Analysis Time: 20:46 Lab ID: MOIL#2
Instrument: FID4A.I Lab File Name: 0401a018.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|------|
| WAMoil (C24-C38) | 4331414 | 465.6 | 500 | -6.9 |
| AK103 (C25-C36) | 3772321 | 546.5 | 500 | 9.3 |
| n-Triacontane | 621607 | 42.3 | 45 | -6.0 |

* 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

Analytical Resources Inc.
TPH Quantitation Report

M 4/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a018.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: MOIL#2
Client ID: MOIL#2
Injection: 01-APR-2010 20:46

Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.174 | -0.023 | 707 | 2207 | GAS (Tol-C12) | 52920 | 7 |
| C8 | 2.498 | -0.007 | 238 | 290 | DIESEL (C12-C24) | 488028 | 43 |
| C10 | 3.786 | 0.004 | 628 | 570 | M.OIL (C24-C38) | 4331414 | 466 |
| C12 | 4.683 | -0.010 | 298 | 819 | AK-102 (C10-C25) | 632314 | 50 |
| C14 | 5.397 | -0.025 | 379 | 1040 | AK-103 (C25-C36) | 3772321 | 547 |
| C16 | 6.064 | 0.005 | 26 | 20 | | | |
| C18 | 6.689 | 0.028 | 219 | 366 | | | |
| C20 | 7.250 | -0.001 | 1560 | 2343 | | | |
| C22 | 7.802 | 0.002 | 6466 | 2125 | | | |
| C24 | 8.312 | -0.001 | 13400 | 10178 | | | |
| C25 | 8.551 | -0.009 | 16793 | 30356 | | | |
| C26 | 8.807 | 0.003 | 19761 | 23259 | | | |
| C28 | 9.295 | -0.003 | 22986 | 13621 | | | |
| C32 | 10.326 | 0.011 | 24553 | 23316 | | | |
| C34 | 10.828 | 0.002 | 27331 | 31477 | BUNKERC (C10-C38) | 4843983 | 734 |
| Filter Peak | 12.870 | 0.005 | 4233 | 5119 | | | |
| C36 | 11.325 | 0.000 | 21391 | 24851 | | | |
| C38 | 11.800 | -0.008 | 14748 | 8938 | | | |
| C40 | 12.272 | -0.010 | 8867 | 10339 | | | |
| o-terph | 6.829 | 0.007 | 277 | 347 | JET-A (C10-C18) | 44012 | 5 |
| Triacon Surr | 9.816 | -0.002 | 594968 | 621607 | | | |

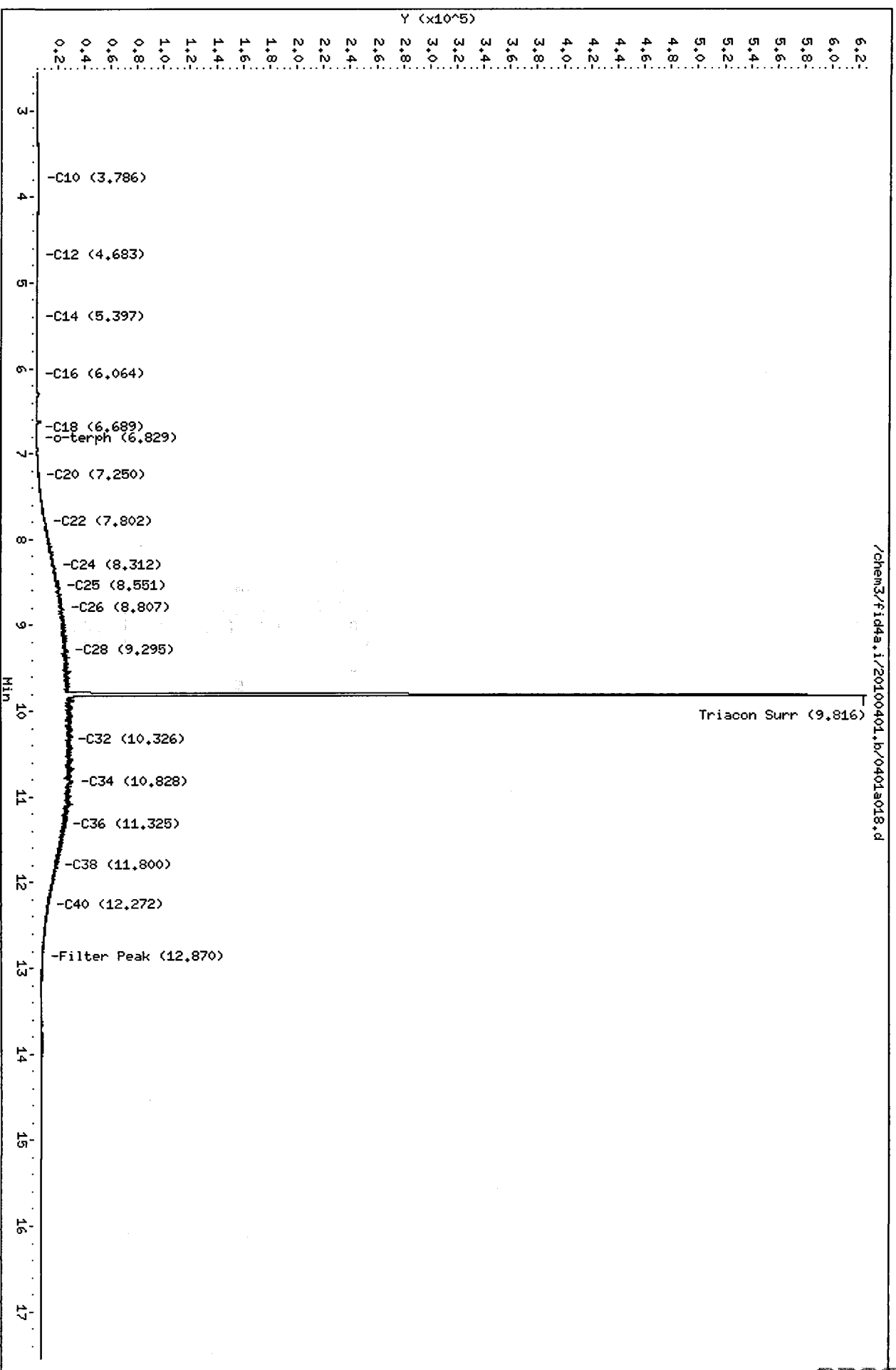
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 347 | 0.0 | 0.1 |
| Triacotane | 621607 | 42.3 | 94.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a018.d
 Date : 01-APR-2010 20:46
 Client ID: H01L#2
 Sample Info: H01L#2
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: ar
 Column diameter: 2.00



14592 : 04018

TPHD Analysis
QC Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

Ms 9/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a006.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP98MBW1
Client ID: QP98MBW1
Injection: 01-APR-2010 15:45
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.185 | -0.012 | 448 | 574 | GAS (Tol-C12) | 51950 | 7 |
| C8 | 2.497 | -0.007 | 138 | 172 | DIESEL (C12-C24) | 94024 | 8 |
| C10 | 3.775 | -0.007 | 544 | 695 | M.OIL (C24-C38) | 155326 | 17 |
| C12 | 4.691 | -0.002 | 459 | 225 | AK-102 (C10-C25) | 128879 | 10 |
| C14 | 5.434 | 0.012 | 318 | 296 | AK-103 (C25-C36) | 118907 | 17 |
| C16 | 6.048 | -0.011 | 625 | 984 | | | |
| C18 | 6.658 | -0.003 | 758 | 1064 | | | |
| C20 | 7.262 | 0.012 | 1262 | 2980 | | | |
| C22 | 7.783 | -0.017 | 386 | 836 | | | |
| C24 | 8.306 | -0.007 | 347 | 470 | | | |
| C25 | 8.566 | 0.006 | 601 | 731 | | | |
| C26 | 8.806 | 0.002 | 290 | 95 | | | |
| C28 | 9.299 | 0.002 | 623 | 836 | | | |
| C32 | 10.320 | 0.005 | 495 | 213 | | | |
| C34 | 10.842 | 0.016 | 2272 | 4114 | BUNKERC (C10-C38) | 280118 | 42 |
| Filter Peak | 12.861 | -0.004 | 1827 | 1015 | | | |
| C36 | 11.326 | 0.001 | 6391 | 9017 | | | |
| C38 | 11.808 | 0.000 | 972 | 829 | | | |
| C40 | 12.288 | 0.007 | 1205 | 1164 | | | |
| o-terph | 6.819 | -0.003 | 361500 | 516990 | JET-A (C10-C18) | 75576 | 8 |
| Triacon Surr | 9.811 | -0.007 | 487457 | 596636 | | | |

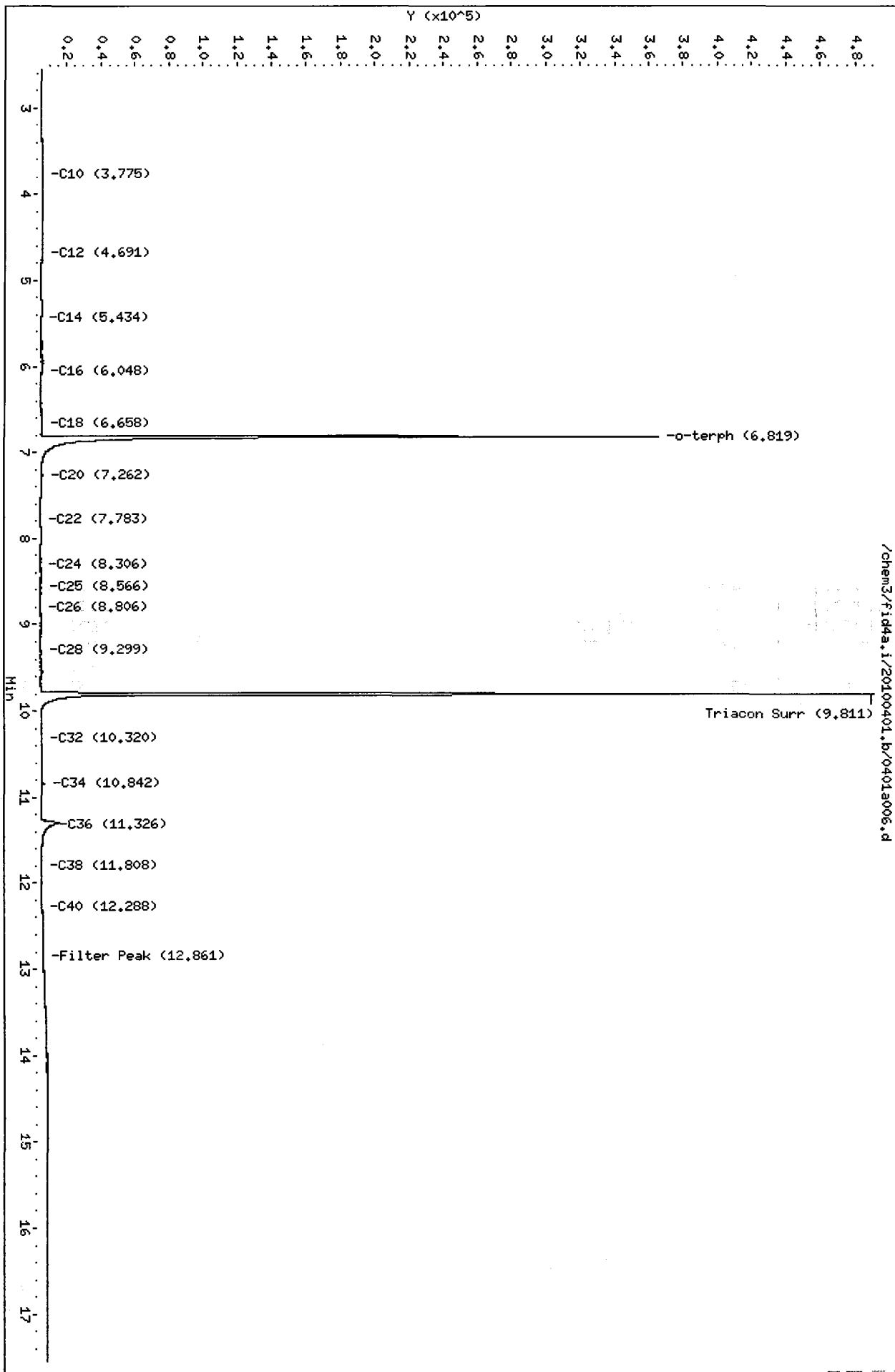
Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 516990 | 37.4 | 83.2 |
| Triacotane | 596636 | 40.6 | 90.2 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a006.d
Date: 01-APR-2010 15:45
Client ID: QP98HBM1
Sample Info: QP98HBM1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

M 4/5/10

Data file: /chem3/fid4a.i/20100401.b/0401a007.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP98LCSW1
Client ID: QP98LCSW1
Injection: 01-APR-2010 16:10
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.169 | -0.028 | 235 | 365 | GAS (Tol-C12) | 1414420 | 179 |
| C8 | 2.523 | 0.018 | 1036 | 1784 | DIESEL (C12-C24) | 11734686 | 1032 |
| C10 | 3.782 | 0.001 | 35415 | 25107 | M.OIL (C24-C38) | 252548 | 27 |
| C12 | 4.677 | -0.016 | 100222 | 93964 | AK-102 (C10-C25) | 12894881 | 1021 |
| C14 | 5.425 | 0.002 | 62634 | 60217 | AK-103 (C25-C36) | 178509 | 26 |
| C16 | 6.055 | -0.004 | 448592 | 334576 | | | |
| C18 | 6.665 | 0.003 | 387396 | 377963 | | | |
| C20 | 7.244 | -0.006 | 252123 | 231698 | | | |
| C22 | 7.795 | -0.005 | 121448 | 112499 | | | |
| C24 | 8.321 | 0.008 | 23499 | 51998 | | | |
| C25 | 8.555 | -0.005 | 4226 | 1315 | | | |
| C26 | 8.804 | 0.000 | 2054 | 1288 | | | |
| C28 | 9.299 | 0.001 | 1325 | 1511 | | | |
| C32 | 10.311 | -0.005 | 280 | 182 | | | |
| C34 | 10.835 | 0.009 | 2887 | 3590 | BUNKERC (C10-C38) | 13100399 | 1986 |
| Filter Peak | 12.875 | 0.010 | 1520 | 2270 | | | |
| C36 | 11.311 | -0.014 | 9530 | 7259 | | | |
| C38 | 11.799 | -0.008 | 676 | 699 | | | |
| C40 | 12.273 | -0.009 | 879 | 482 | | | |
| o-terph | 6.822 | 0.000 | 613581 | 489500 | JET-A (C10-C18) | 9188841 | 1010 |
| Triacon Surr | 9.809 | -0.009 | 448432 | 535669 | | | |

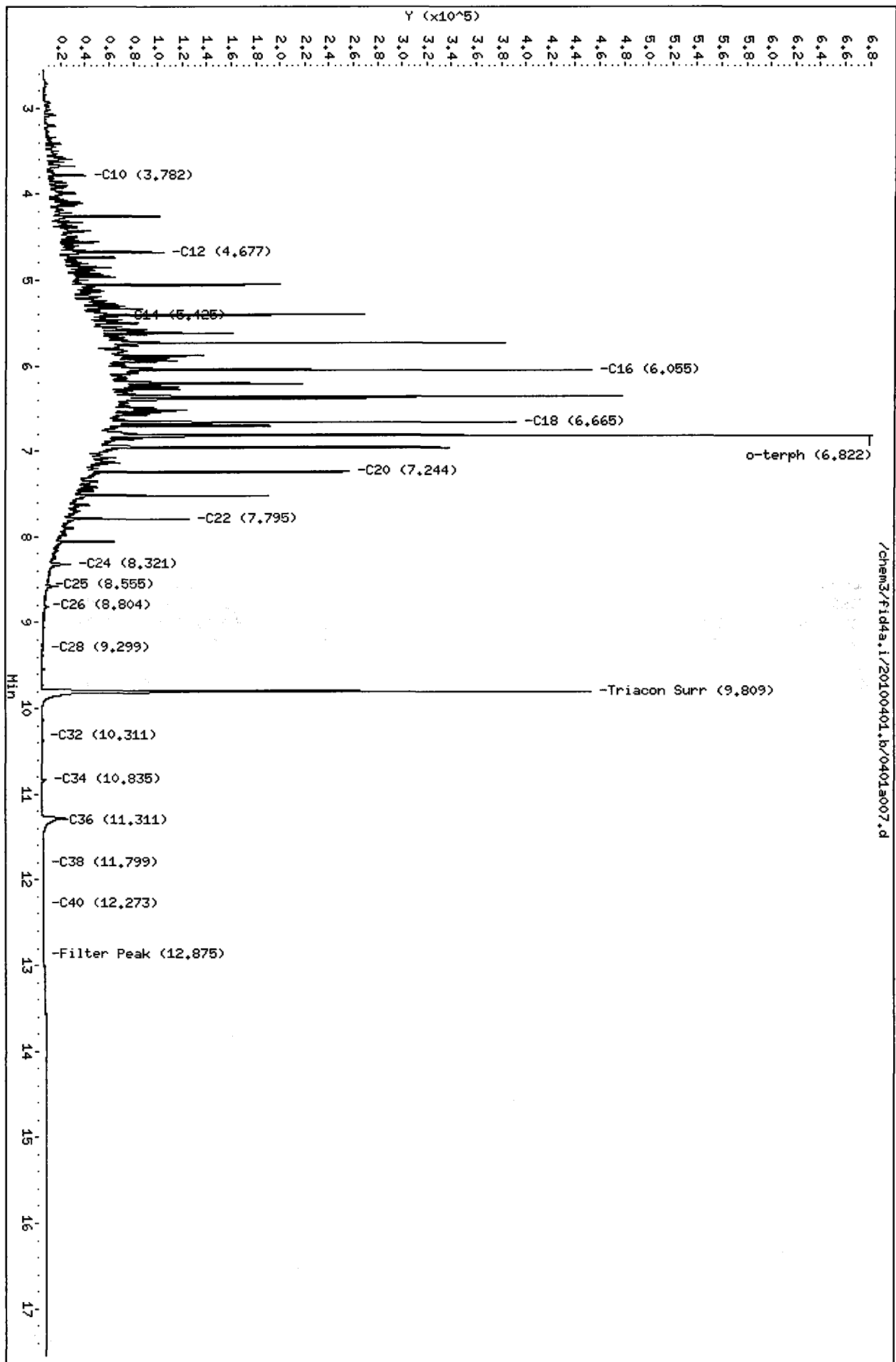
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 489500 | 35.5 | 78.8 |
| Triacontane | 535669 | 36.5 | 81.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a007.d
Date : 01-APR-2010 16:10
Client ID: QP98LCSM4
Sample Info: QP98LCSM4
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100401.b/0401a007.d

204/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a008.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: QP98LCSDW1
Client ID: QP98LCSDW1
Injection: 01-APR-2010 16:35

Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.166 | -0.030 | 228 | 364 | GAS (Tol-C12) | 937962 | 119 |
| C8 | 2.518 | 0.013 | 590 | 1203 | DIESEL (C12-C24) | 8123096 | 715 |
| C10 | 3.787 | 0.006 | 19963 | 19366 | M.OIL (C24-C38) | 233400 | 25 |
| C12 | 4.680 | -0.012 | 64366 | 65397 | AK-102 (C10-C25) | 8885574 | 703 |
| C14 | 5.427 | 0.005 | 42109 | 42653 | AK-103 (C25-C36) | 172623 | 25 |
| C16 | 6.054 | -0.005 | 326464 | 235289 | | | |
| C18 | 6.664 | 0.003 | 276210 | 253890 | | | |
| C20 | 7.246 | -0.004 | 172589 | 158717 | | | |
| C22 | 7.797 | -0.003 | 72232 | 87997 | | | |
| C24 | 8.312 | -0.001 | 5422 | 1802 | | | |
| C25 | 8.562 | 0.002 | 2988 | 755 | | | |
| C26 | 8.801 | -0.004 | 1527 | 756 | | | |
| C28 | 9.300 | 0.003 | 1028 | 1292 | | | |
| C32 | 10.320 | 0.005 | 299 | 247 | | | |
| C34 | 10.838 | 0.012 | 3024 | 3469 | BUNKERC (C10-C38) | 9086545 | 1378 |
| Filter Peak | 12.870 | 0.006 | 1522 | 1469 | | | |
| C36 | 11.326 | 0.001 | 7794 | 6985 | | | |
| C38 | 11.814 | 0.007 | 695 | 765 | | | |
| C40 | 12.278 | -0.004 | 912 | 411 | | | |
| o-terph | 6.820 | -0.002 | 482086 | 309189 | JET-A (C10-C18) | 6282190 | 690 |
| Triacon Surr | 9.803 | -0.015 | 295492 | 350749 | | | |

-47.6%
OK

Range Times: NW Diesel (4.693 - 8.313) AK102 (3.78 - 8.56) Jet A (3.78 - 6.66)
 NW M.Oil (8.31 - 11.81) AK103 (8.56 - 11.32) OR Diesel (3.78 - 9.30)

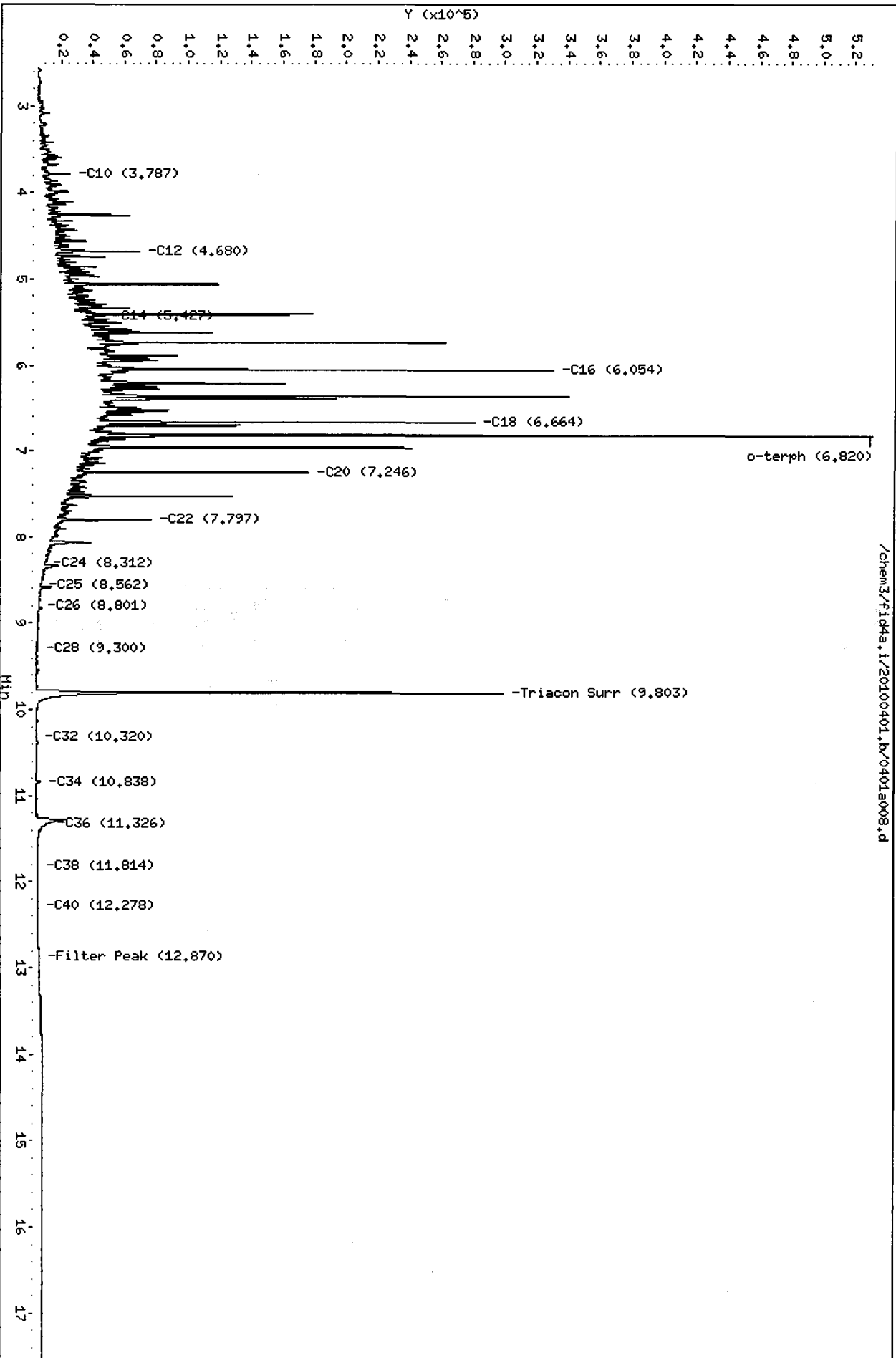
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 309189 | 22.4 | 49.8 |
| Triacontane | 350749 | 23.9 | 53.0 |

>41% OK

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a008.d
Date: 01-APR-2010 16:35
Client ID: QP98LCSDM4
Sample Info: QP98LCSDM4
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



QP98 : 00234

MS 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a011.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP69AMS
Client ID: CB31A032510GRAB MS
Injection: 01-APR-2010 17:50

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.188 | -0.009 | 223 | 76 | GAS (Tol-C12) | 1293374 | 164 |
| C8 | 2.519 | 0.014 | 1025 | 1709 | DIESEL (C12-C24) | 11680249 | 1027 |
| C10 | 3.784 | 0.002 | 30305 | 21815 | M.OIL (C24-C38) | 3536201 | 380 |
| C12 | 4.677 | -0.016 | 91545 | 87638 | AK-102 (C10-C25) | 12937046 | 1024 |
| C14 | 5.426 | 0.003 | 57909 | 53200 | AK-103 (C25-C36) | 3120125 | 452 |
| C16 | 6.054 | -0.005 | 413890 | 309421 | | | |
| C18 | 6.664 | 0.003 | 360750 | 365801 | | | |
| C20 | 7.244 | -0.007 | 256553 | 212426 | | | |
| C22 | 7.793 | -0.007 | 133256 | 120242 | | | |
| C24 | 8.308 | -0.005 | 56112 | 72332 | | | |
| C25 | 8.555 | -0.006 | 40364 | 45731 | | | |
| C26 | 8.813 | 0.009 | 26676 | 36096 | | | |
| C28 | 9.306 | 0.009 | 24307 | 16838 | | | |
| C32 | 10.308 | -0.008 | 25562 | 41782 | | | |
| C34 | 10.817 | -0.009 | 24733 | 41806 | BUNKERC (C10-C38) | 16239811 | 2462 |
| Filter Peak | 12.868 | 0.003 | 2285 | 1031 | | | |
| C36 | 11.337 | 0.012 | 9667 | 4296 | | | |
| C38 | 11.809 | 0.001 | 6943 | 9060 | | | |
| C40 | 12.290 | 0.008 | 3574 | 4592 | | | |
| o-terph | 6.821 | -0.001 | 597125 | 448244 | JET-A (C10-C18) | 8542350 | 939 |
| Triacon Surr | 9.811 | -0.007 | 513140 | 494714 | | | |

Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 448244 | 32.5 | 72.1 |
| Triacontane | 494714 | 33.7 | 74.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

M 4/5/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100401.b/0401a012.d
Method: /chem3/fid4a.i/20100401.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 04/05/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QP69AMSD
Client ID: CB31A032510GRAB MSD
Injection: 01-APR-2010 18:15

Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|------|
| Toluene | 2.228 | 0.031 | 916 | 1270 | GAS (Tol-C12) | 1350404 | 171 |
| C8 | 2.524 | 0.019 | 1101 | 1930 | DIESEL (C12-C24) | 12461916 | 1096 |
| C10 | 3.784 | 0.002 | 32276 | 22995 | M.OIL (C24-C38) | 3830326 | 412 |
| C12 | 4.677 | -0.016 | 94829 | 90657 | AK-102 (C10-C25) | 13775584 | 1091 |
| C14 | 5.426 | 0.004 | 62206 | 60772 | AK-103 (C25-C36) | 3379651 | 490 |
| C16 | 6.055 | -0.005 | 438867 | 310331 | | | |
| C18 | 6.666 | 0.004 | 394485 | 366967 | | | |
| C20 | 7.246 | -0.005 | 268696 | 231303 | | | |
| C22 | 7.794 | -0.006 | 141514 | 114904 | | | |
| C24 | 8.307 | -0.006 | 61723 | 64776 | | | |
| C25 | 8.553 | -0.007 | 46769 | 64586 | | | |
| C26 | 8.796 | -0.009 | 37358 | 46217 | | | |
| C28 | 9.305 | 0.007 | 26723 | 25987 | | | |
| C32 | 10.308 | -0.008 | 32375 | 52648 | | | |
| C34 | 10.833 | 0.007 | 15302 | 10632 | BUNKERC (C10-C38) | 17357819 | 2632 |
| Filter Peak | 12.857 | -0.008 | 2311 | 2597 | | | |
| C36 | 11.314 | -0.011 | 15975 | 33941 | | | |
| C38 | 11.808 | 0.000 | 7096 | 11635 | | | |
| C40 | 12.277 | -0.005 | 3196 | 1299 | | | |
| o-terph | 6.824 | 0.001 | 610784 | 485301 | JET-A (C10-C18) | 9053280 | 995 |
| Triacon Surr | 9.813 | -0.005 | 493466 | 547854 | | | |

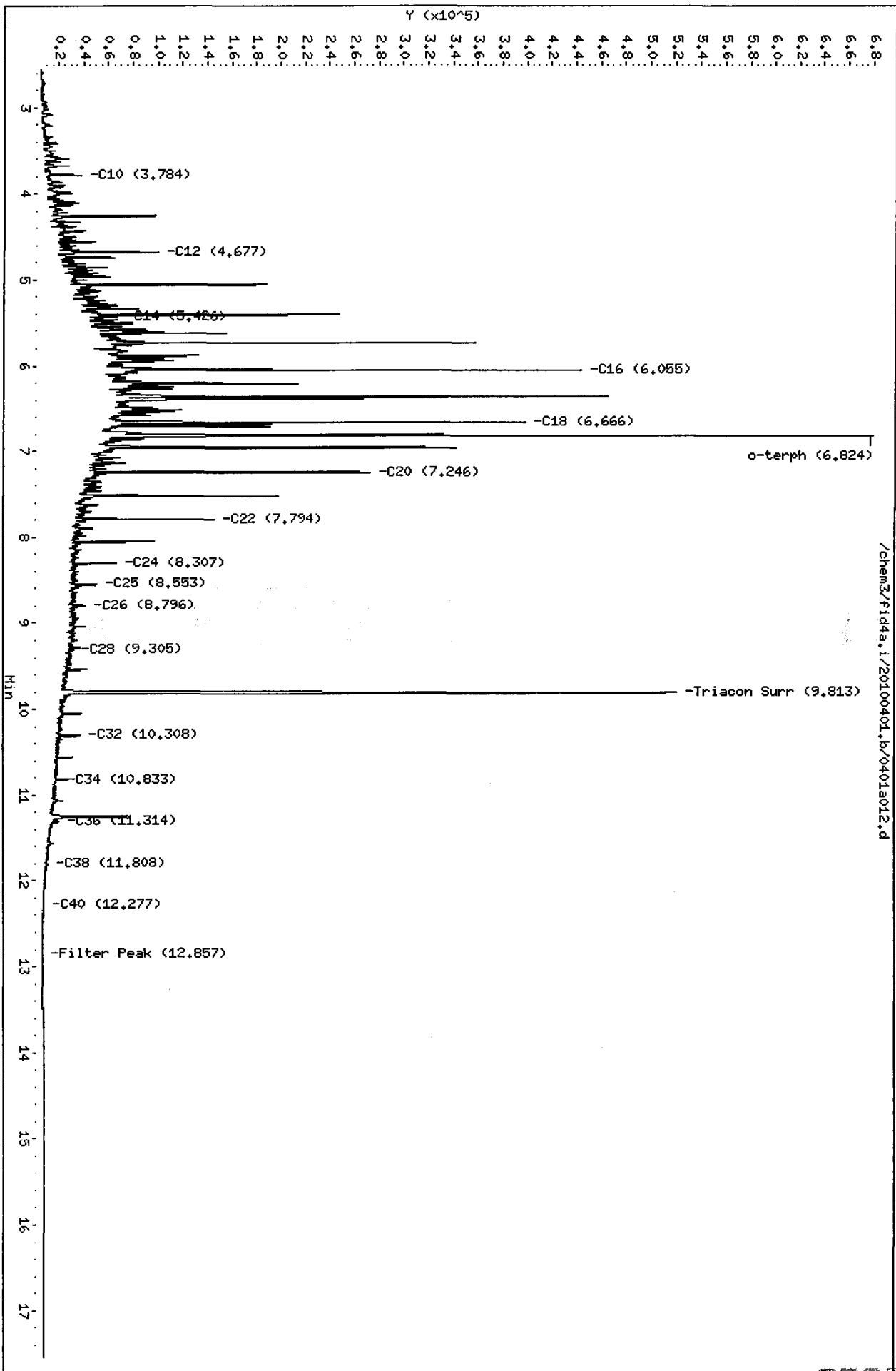
Range Times: NW Diesel(4.693 - 8.313) AK102(3.78 - 8.56) Jet A(3.78 - 6.66)
 NW M.Oil(8.31 - 11.81) AK103(8.56 - 11.32) OR Diesel(3.78 - 9.30)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 485301 | 35.1 | 78.1 |
| Triacontane | 547854 | 37.3 | 82.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 13806.6 | 22-JAN-2010 |
| Triacon Surr | 14695.1 | 22-JAN-2010 |
| Gas | 7904.8 | 23-JAN-2009 |
| Diesel | 11368.0 | 22-JAN-2010 |
| Motor Oil | 9302.5 | 21-JAN-2010 |
| AK102 | 12631.0 | 22-JAN-2010 |
| AK103 | 6902.1 | 10-DEC-2009 |
| JetA | 9098.1 | 11-JAN-2010 |
| Bunker C | 6595.6 | 11-JAN-2010 |

Data File: /chem3/fid4a.i/20100401.b/0401a012.d
Date: 01-APR-2010 18:15
Client ID: CE31A032510GRAB HSD
Sample Info: QP69AHSD
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100401.b/0401a012.d

TPHD Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartment, POS-LLA

ARI JOB NO: QP69

prepared
by

Analytical Resources, Inc.



Preparation Test **TPHD**/HCID # 1

ARI Job No(s) QP98, QP69

In-House (0.25-0.50ppm)

Batch set up by: JH

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | DryVap Or KD | Turbo Vap | Acid/Silica Clean (1:1) | Final Effective Volume | Volume to Lab | Comments |
|------------|-------------------------|------------------|------------------|---------------------|-----------|-------------------------|------------------------|---------------|-------------|
| | QP98 MBW | Date 3-29-10 | 500mL | | 23 | Y N | 1mL | 1mL | |
| | SBW | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| | SBW Dup. | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 4 | A | verified | 500ml | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10, 11, 12 | QP69 A | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | Homogenized |
| | AMS | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | AMSd | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 4 | B | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| ↓ | C | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| ↓ | D | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |

Analyst/Date: PD 3-29-10 3-29-10^{TS} SE 3/29/10 →

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|----------------------|--------|-----------------|---------|---------|
| Surrogate | <u>Q₂</u> | 100µL | 7/21/14 | PD | SE |
| Spike | 11 | 100µL | 9/27/14 | PD | SE |

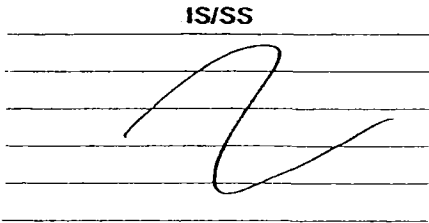
Extraction Time: 0910

- SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.
4. Extract 2X with 30mL DCM. 5. DryVap or **KD at 80°**. 6. TurboVap if KD. 7. Acid/Silica Clean-ups? **Y/N**.
8. Vial in DCM.
- Archive Y/N**
Both jobs

Analytical Resources Inc.: Organics Instrument Log

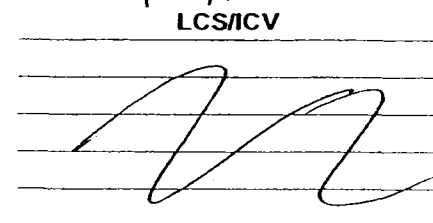
FID-4A Serial No.: US00003247

Date: 1/21/10 Analysis: TPH Analyst: MO
 GC Program: TPA Column No: 910208 Column Type: RTR-1
 Instrument Tune (.U or .CT.): --- EM Voltage: ---
 Calibration File: --- Curve Date: 1/21/10

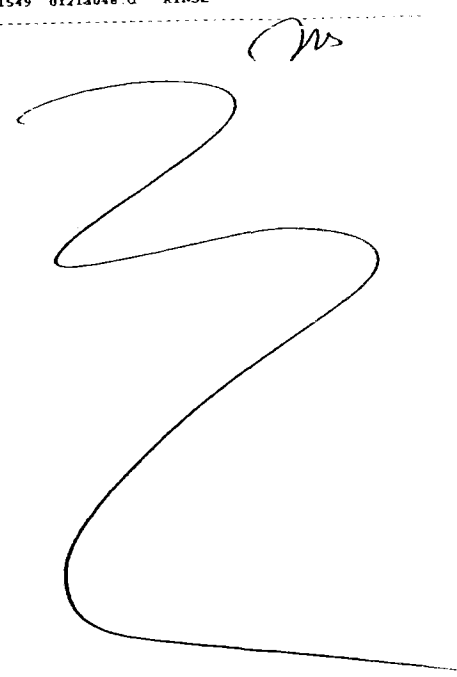


Ical/Ccal

1686-3
1639-1
1687-3
1638-3



| Time | Filename | LabID | ClientId | DF | Time | Filename | LabID | ClientId | DF | Time | Filename | LabID | ClientId | DF |
|------|----------|------------|-------------|-----------|------|----------|------------|---------------|-----------|------|----------|------------|-------------|----|
| 1 | 2004 | 0121a001.d | DIESEL#1 | 1 | 23 | 0516 | 0121a023.d | CREOSOTE 100 | 1 | 46 | 1458 | 0121a046.d | MOIL#2 | 1 |
| 2 | 2029 | 0121a002.d | RINSE | 1 | 24 | 0541 | 0121a024.d | CREOSOTE 250 | 1 | 47 | 1523 | 0121a047.d | HYDRAULIC#2 | 1 |
| 3 | 2054 | 0121a003.d | RINSE | 1 | 25 | 0606 | 0121a025.d | CREOSOTE 500 | 1 | 48 | 1549 | 0121a048.d | RINSE | 1 |
| 4 | 2119 | 0121a004.d | RT | 1 | 26 | 0631 | 0121a026.d | CREOSOTE 1000 | 1 | | | | | |
| 5 | 2144 | 0121a005.d | IB | 1 | 27 | 0656 | 0121a027.d | CREOSOTE 2500 | 1 | | | | | |
| 6 | 2209 | 0121a006.d | DIESEL 50 | 1 | 28 | 0722 | 0121a028.d | CREOSOTE 5000 | 1 | | | | | |
| 7 | 2234 | 0121a007.d | DIESEL 100 | 1 | 29 | 0747 | 0121a029.d | RINSE | 1 | | | | | |
| 8 | 2259 | 0121a008.d | DIESEL 250 | 1 | 30 | 0812 | 0121a030.d | RINSE | 1 | | | | | |
| 9 | 2324 | 0121a009.d | DIESEL 500 | 1 | 31 | 0837 | 0121a031.d | DIESEL#1 | 1 | | | | | |
| 10 | 2349 | 0121a010.d | DIESEL 1000 | 1 | 32 | 0903 | 0121a032.d | MOIL#1 | 1 | | | | | |
| 11 | 0014 | 0121a011.d | DIESEL 2500 | 1 | 33 | 0928 | 0121a033.d | HYDRAULIC#1 | 1 | | | | | |
| 12 | 0040 | 0121a012.d | DIESEL ICV | 1 | 34 | 0953 | 0121a034.d | QF800 | 50 | | | | | |
| 13 | 0105 | 0121a013.d | RINSE | 1 | 35 | 1019 | 0121a035.d | QF80C | 50 | | | | | |
| 14 | 0130 | 0121a014.d | MOIL 100 | MOIL 100 | 1 | 36 | 1044 | 0121a036.d | QF80D | 26 | | | | |
| 15 | 0155 | 0121a015.d | MOIL 250 | MOIL 250 | 1 | 37 | 1110 | 0121a037.d | QG28MBW1 | 1 | | | | |
| 16 | 0221 | 0121a016.d | MOIL 500 | MOIL 500 | 1 | 38 | 1135 | 0121a038.d | QG28LCSW1 | 1 | | | | |
| 17 | 0245 | 0121a017.d | MOIL 1000 | MOIL 1000 | 1 | 39 | 1200 | 0121a039.d | QG28LCSW1 | 1 | | | | |
| 18 | 0310 | 0121a018.d | MOIL 2500 | MOIL 2500 | 1 | 40 | 1226 | 0121a040.d | QG28A | 1 | | | | |
| 19 | 0335 | 0121a019.d | MOIL 5000 | MOIL 5000 | 1 | 41 | 1251 | 0121a041.d | QG28B | 1 | | | | |
| 20 | 0401 | 0121a020.d | MOIL ICV | 1 | 42 | 1317 | 0121a042.d | QG28C | 1 | | | | | |
| 21 | 0425 | 0121a021.d | RINSE | 1 | 43 | 1342 | 0121a043.d | QG28D | 1 | | | | | |
| 22 | 0451 | 0121a022.d | CREOSOTE 50 | 1 | 44 | 1407 | 0121a044.d | QG28E | 1 | | | | | |
| | | | | | 45 | 1433 | 0121a045.d | DIESEL#2 | 1 | | | | | |



Maintenance / Comments

Curved only creosote and motor oil. Diesel handle dial position mix up.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, AK102 Client ID: ARI
curve

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, AK102, o-Stephenyl

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/22/10 Analysis Start: 1/22/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO / NA

Cal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

Cal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: *mo* Date: 1/25/10

Reviewer's Signature: *BO* Date: 1/26/10



GC Analyst Notes / Corrective Action Log

ARI Project ID: 30wt MDI Curve Client ID: APF

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): 30wt MDI CURVE

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/21/10 Analysis Start: 1/21/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO
Cal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO
Cal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO
Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: ma Date: 1/25/10

Reviewer's Signature: [Signature] Date: 1/26/10

Analytical Resources Inc.: Organics Instrument Log

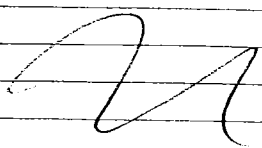
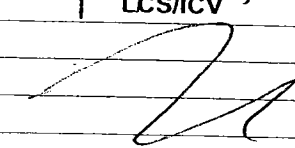
FID-4A Serial No.: US00003247

Date: 4/11/10 Analysis: TPHD Analyst: ms

GC Program: TPH Column No: 910208 Column Type: RFX-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 1/21/10-1/22/10

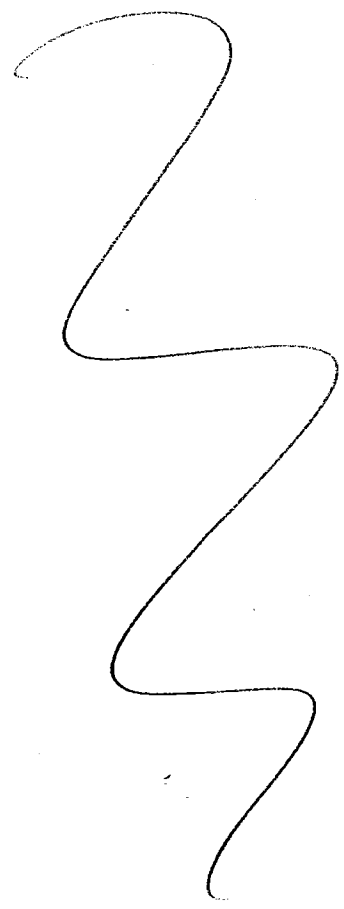
| | | |
|---|--|---|
| IS/SS | Ical/Ccal | LCS/ICV |
|  | <u>1700-1</u> <u>1626-3</u> <u>1687-3</u> <u>1694-1</u> |  |

INTERNAL STANDARD SUMMARY FOR DA

INTERNAL STANDARD SUMMARY FOR DA

| Time | Filename | LabID | ClientID | DF |
|------|----------|------------|-----------|-------|
| 1 | 1340 | 0401a001.d | RINSE | 1 I |
| 2 | 1405 | 0401a002.d | RT | 1 I |
| 3 | 1430 | 0401a003.d | IB | 1 I |
| 4 | 1455 | 0401a004.d | DIESEL#1 | 1 I |
| 5 | 1519 | 0401a005.d | MOIL#1 | 1 I |
| 6 | 1545 | 0401a006.d | QP98MBW1 | 1 I |
| 7 | 1610 | 0401a007.d | QP98LCSW1 | 1 I |
| 8 | 1635 | 0401a008.d | QP98LCSW1 | 1 N |
| 9 | 1700 | 0401a009.d | QP98A | 1 N |
| 10 | 1725 | 0401a010.d | QP69A | 1 N |
| 11 | 1750 | 0401a011.d | QP69AMS | 1 N |
| 12 | 1815 | 0401a012.d | QP69AMSD | 1 N |
| 13 | 1840 | 0401a013.d | QP69B | 1 N |
| 14 | 1905 | 0401a014.d | QP69C | 1 N |
| 15 | 1930 | 0401a015.d | QP69D | 1 N |
| 16 | 1955 | 0401a016.d | QP79A | 50 N |
| 17 | 2021 | 0401a017.d | DIESEL#2 | 1 N |
| 18 | 2046 | 0401a018.d | MOIL#2 | 1 N |
| 19 | 2111 | 0401a019.d | QP80MBW1 | 1 N |
| 20 | 2136 | 0401a020.d | QP80LCSW1 | 1 N |
| 21 | 2201 | 0401a021.d | QP80LCSW1 | 1 N |
| 22 | 2226 | 0401a022.d | QP80B | 1 N |

| Time | Filename | LabID | ClientID | DF |
|------|----------|------------|----------|----|
| 23 | 2251 | 0401a023.d | QP80D | 1 |
| 24 | 2316 | 0401a024.d | QP80DMS | 1 |
| 25 | 2341 | 0401a025.d | QP80DMSD | 1 |
| 26 | 0006 | 0401a026.d | QP80E | 1 |
| 27 | 0031 | 0401a027.d | DIESEL#3 | 1 |
| 28 | 0055 | 0401a028.d | MOIL#3 | 1 |
| 29 | 0120 | 0401a029.d | RINSE | 1 |
| 30 | 0145 | 0401a030.d | RINSE | 1 |



Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

GC Analyst Notes / Corrective Action Log

ARI Project ID: QP69 Client ID: FYD FLOYD-SNIDER-LUA

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, Methyl, Staph.

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/21/10 1/21/10 Analysis Start: 4/1/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO
ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO
CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO
Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

*LCs - Looks good
LCSD - (low) but > Control Limits RPPS 36.1%
seen low 1.2% Spurious features
Looks like spill for Blue team pulled / NO Leak?
PS/MSB - Look great
no further C.A. taken*

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 4/5/10

Reviewer's Signature: [Signature] Date: 4/6/10



Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 29, 2010

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

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QN31

Dear Ms. Massingale:

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

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

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

Sincerely,

ANALYTICAL RESOURCES, INC.

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

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

Enclosures

cc: eFile QN31

SD/sdrd

Chain of Custody
Documentation

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.



Cooler Receipt Form

ARI Client: Floyd Snider
 COC No(s): _____ (NA)
 Assigned ARI Job No: QNS1

Project Name: Lora Lakes Apartments
 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)..... 4.3
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619
 Cooler Accepted by: AV Date: 3/11/10 Time: 1204

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..... AV 3/23/10
 Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 3/11/10 Time: 1240

**** 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:
 * in bags, but not individually
 CB31A031110G-RAB = 1 Lg

By: AV Date: 3/11/10

| | | | |
|------------------------------------|------------------------------|--|---|
| <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" |
|------------------------------------|------------------------------|--|---|

Case Narrative

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.



Case Narrative

Client: Floyd Snider

Project: Lora Lake Apartments, POS-LLA

Matrix: Water

ARI Job No.: QN31

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples and a trip blank on March 11, 2010 under ARI job QN31. The cooler temperature measured by IR thermometer following ARI SOP was 4.3°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

1,2-Dichloroethane by SW8260C

The samples were analyzed within the method recommended holding time. This compound will be reported by SIM only for future samples.

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

The surrogate percent recoveries were within control limits.

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

The MS/MSD had recovery and RPD within limits.

SIM Volatiles by SW8260C

The samples were analyzed within the method recommended holding time. The compound 1,2-Dichloroethane was added to the analyte list.

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

The surrogate percent recoveries were within control limits.

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

The MS/MSD had recovery and RPD within limits.



NWTPH-Dx

The samples were extracted and analyzed within the method recommended holding time.

Initial calibrations 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 and RPD were within control limits.

The MS/MSD had recovery and RPD within limits.



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

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

Organic Data

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



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

Geotechnical Data

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

SURR SOLUTIONS

3/6/2010

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

LCS SOLUTIONS

3/6/2010

| LABL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|------|---------|--------------|-------------|---------|----------|
| 1 | 1686-1 | PCB 1660 | 20 | ACETONE | 09/01/10 |
| 2# | 1472-3 | BCOC PEST | 10 | ACETONE | NA |
| 3 | 1620-4 | PEST | 02/04/20 | ACETONE | 06/26/10 |
| 4 | 1667-1 | LOW PEST | 0.2/0.4/2 | ACETONE | 06/26/10 |
| 5 | 1677-1 | EPH | 1500 | MECL2 | 11/12/10 |
| 6 | 1702-2 | PCP | 12.5/125 | ACETONE | 02/18/11 |
| 7 | 1705-1 | ABN | 100 | ACETONE | 07/01/10 |
| 8 | 1681-4 | TBT | 2.5 | MECL2 | 12/01/10 |
| 9 | 1682-2 | PORE TBT | .125/.25 | MECL2 | 12/01/10 |
| 10 | 1698-2 | ABN ACID | 100/200 | MECL2 | 07/14/10 |
| 11 | 1642-2 | TPHD | 15000 | ACETONE | 09/07/10 |
| 12 | 1698-1 | ABN BASE | 200 | MEOH | 07/24/10 |
| 13 | 1613-1 | LOW PCB | 2 | ACETONE | 06/08/10 |
| 14* | 1547-1 | LOW ABN ACID | 10/20 | MEOH | 04/10/10 |
| 15* | 1591-3 | SIM PNA | 15/75 | MEOH | 08/28/10 |
| 16 | 1602-3 | DIOXANE | 100 | MEOH | 03/20/10 |
| 17 | 1644-1 | 1248 PCB | 10 | ACETONE | 09/10/10 |
| 18* | 1591-4 | LOW SIM PNA | 1.5 | ACETONE | 08/28/10 |
| 19 | 1685-3 | AK103 | 7500 | ACETONE | 09/03/10 |
| 20 | 1682-4 | PNA | 100 | ACETONE | 12/04/10 |
| 21 | 1593-3 | SKY/BHT | 100 | MEOH | 03/31/10 |
| 22 | 1702-4 | HERB | 12.5/12500 | MEOH | 04/17/10 |
| 23* | 1505-1 | LW ABN BASE | 20 | MEOH | 03/20/10 |
| 24 | 1696-1 | LOW ABN | 10 | ACETONE | 01/13/11 |
| 25# | 1481-1 | DIPHENYL | 100 | MEOH | NA |
| 26 | 1702-5 | OP-PEST | 25 | MEOH | 03/31/10 |
| 27 | 1668-3 | STEROLS | 200 | MEOH | 10/30/10 |
| 28# | 1684-1 | ADD. PEST | 4 | ACETONE | 03/25/10 |
| 29# | 1496-3 | DECANES | 100 | MEOH | NA |
| 30 | 1620-1 | EDB/DBCP | 0.2 | MEOH | 06/22/10 |

LCS SOLUTIONS

3/6/2010

| | | | | | |
|-----------------------------|--------|-------------|--------|---------|----------|
| 31 | 1596-1 | TERPINEOL | 100 | MEOH | 04/03/10 |
| 32 | 1619-3 | GUAIACOL | 50-200 | ACETONE | 04/30/10 |
| 33 | 1639-3 | RETENE | 100 | MEOH | 09/03/10 |
| 34 | 1633-1 | CONGENERS | 2.5 | ACETONE | 08/11/10 |
| 35 | 1674-3 | ALKYL PNA A | 10 | MEOH | 10/28/10 |
| 36 | 1601-3 | ALKYL PNA B | 10 | MEOH | 05/13/10 |
| 50 | 1617-1 | FULL RESIN | 250 | ACETONE | 06/17/10 |
| 51 | 1696-3 | DDTS | 2.5 | ACETONE | 06/03/10 |
| 52 | 1613-5 | 1232 PCB | 20 | ACETONE | 06/16/10 |
| 53 | 1703-3 | DALAPON | 50 | MEOH | 09/11/10 |
| 54 | 1701-2 | PBDE | 0.5 | ACETONE | 02/10/11 |
| #=PROJECT SPECIFIC SOLUTION | | | | | |
| *=-REVERIFIED SOLUTION | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



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

Effective: 5/1/09

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

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



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



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

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

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

(3) Marginal Exceedances not allowed for surrogate standards.

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

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

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

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

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

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



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

Effective 5/1/09

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

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

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
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.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.

Data Summary Package

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by


Analytical Resources, Inc.

VOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
SAMPLE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 19:28

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 114%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB1031110GRAB
SAMPLE

Lab Sample ID: QN31B

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6028

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/19/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 19:52

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 111%

ORGANICS ANALYSIS DATA SHEET


Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB4857031110GRAB
SAMPLE

Lab Sample ID: QN31C

LIMS ID: 10-6029

Matrix: Water

Data Release Authorized: 

Reported: 03/19/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Date Analyzed: 03/17/10 20:18

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 112%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: CB101031110GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QN31D


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6030

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/19/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 20:43

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)


Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: TB031110
Trip Blank

Lab Sample ID: QN31E
LIMS ID: 10-6031
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 14:52

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 109% |
|-----------------------|------|

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| ARI ID | Client ID | PV | DCE | TOL | BFB | DCB | TOT OUT |
|-------------|------------------|----|------|-----|-----|-----|---------|
| MB-031710 | Method Blank | 10 | 107% | NA | NA | NA | 0 |
| LCS-031710 | Lab Control | 10 | 111% | NA | NA | NA | 0 |
| LCSD-031710 | Lab Control Dup | 10 | 111% | NA | NA | NA | 0 |
| QN31A | CB31A031110GRAB | 10 | 114% | NA | NA | NA | 0 |
| QN31AMS | CB31A031110GRAB | 10 | 115% | NA | NA | NA | 0 |
| QN31AMSD | CB31A031110GRAB | 10 | 114% | NA | NA | NA | 0 |
| QN31B | CB1031110GRAB | 10 | 111% | NA | NA | NA | 0 |
| QN31C | CB4857031110GRAB | 10 | 112% | NA | NA | NA | 0 |
| QN31D | CB101031110GRAB | 10 | 110% | NA | NA | NA | 0 |
| QN31E | TB031110 | 10 | 109% | NA | NA | NA | 0 |

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

70-132
80-120
80-120
80-120

80-143
80-120
80-120
80-120

Prep Method: SW5030B
Log Number Range: 10-6027 to 10-6031

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
MATRIX SPIKE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: *AS*
Reported: 03/19/10

QC Report No: QN31-Floyd-Snyder
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/17/10 21:58
MSD: 03/17/10 22:23

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------------------|---------|------|-------------------|----------------|------|--------------------|-----------------|------|
| 1,2-Dichloroethane | < 0.2 U | 10.8 | 10.0 | 108% | 10.9 | 10.0 | 109% | 0.9% |


Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
MATRIX SPIKE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 21:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | --- | |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 115%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 1


Sample ID: CB31A031110GRAB

MATRIX SPIKE DUP

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/19/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Date Analyzed: 03/17/10 22:23

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | --- | |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 114%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-031710

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031710

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 03/19/10

Date Received: NA

Instrument/Analyst LCS: NT10/AAR

Sample Amount LCS: 10.0 mL

LCSD: NT10/AAR

LCSD: 10.0 mL

Date Analyzed LCS: 03/17/10 11:25

Purge Volume LCS: 10.0 mL

LCSD: 03/17/10 11:50

LCSD: 10.0 mL

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------------|------|-----------------|--------------|------|------------------|---------------|------|
| 1,2-Dichloroethane | 10.5 | 10.0 | 105% | 10.5 | 10.0 | 105% | 0.0% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|-----------------------|------|------|
| d4-1,2-Dichloroethane | 111% | 111% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

| |
|--------|
| MB0317 |
|--------|

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QN31
 Lab File ID: MB0317
 Date Analyzed: 03/17/10
 Instrument ID: NT10

Client: FLOYD-SNIDER
 Project: LORA LAKES APARTMENTS
 Lab Sample ID: MB0317
 Time Analyzed: 1215
 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 | LCS0317 | LCS0317 | LCS0317 | 1125 |
| 02 | LCS0317 | LCSD0317 | LCS0317A | 1150 |
| 05 | TB031110 | QN31E | QN31E | 1452 |
| 12 | CB31A031110G | QN31A | QN31A | 1928 |
| 13 | CB1031110GRA | QN31B | QN31B | 1952 |
| 14 | CB4857031110 | QN31C | QN31C | 2018 |
| 15 | CB101031110G | QN31D | QN31D | 2043 |
| 18 | CB31A031110G | QN31A | QN31AMS | 2158 |
| 19 | CB31A031110G | QN31A | QN31AMSD | 2223 |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-031710
METHOD BLANK

Lab Sample ID: MB-031710


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/19/10

Date Received: NA

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 12:15

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 107%

SIM VOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: *AS*

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 04:13

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 102% |
| d8-Toluene | 100% |


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31B

LIMS ID: 10-6028

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 05:33

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 106% |
| d8-Toluene | 101% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31C

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6029

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 05:59

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 111% |
| d8-Toluene | 100% |


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB101031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31D

LIMS ID: 10-6030

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 06:26

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 125% |
| d8-Toluene | 101% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB031110
Page 1 of 1 Trip Blank

Lab Sample ID: QN31E

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6031

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 03:20

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|-------|
| d4-1,2-Dichloroethane | 108% |
| d8-Toluene | 99.8% |

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| <u>Client ID</u> | <u>DCE</u> | <u>TOL</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-031910 | 106% | 100% | 0 |
| LCS-031910 | 96.3% | 100% | 0 |
| LCSD-031910 | 92.7% | 99.9% | 0 |
| CB31A031110GRAB | 102% | 100% | 0 |
| CB31A031110GRAB-MS | 99.2% | 101% | 0 |
| CB31A031110GRAB-MSD | 100% | 101% | 0 |
| CB1031110GRAB | 106% | 101% | 0 |
| CB4857031110GRAB | 111% | 100% | 0 |
| CB101031110GRAB | 125% | 101% | 0 |
| TB031110 | 108% | 99.8% | 0 |

LCS/MB LIMITS QC LIMITS

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

(80-133) (80-136)
(80-121) (80-120)

Prep Method: SW5030
Log Number Range: 10-6027 to 10-6031


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst MS: NT7/PKC

MSD: NT7/PKC

Date Analyzed MS: 03/19/10 04:40

MSD: 03/19/10 05:06

Sample Amount MS: 10.0 mL

MSD: 10.0 mL

Purge Volume MS: 10.0 mL

MSD: 10.0 mL

| Analyte | Sample | Spike | | MS | | Spike | | MSD | |
|--------------------------|-----------|-------|----------|----------|------|-----------|----------|------|--|
| | | MS | Added-MS | Recovery | MSD | Added-MSD | Recovery | RPD | |
| 1,2-Dichloroethane | < 0.020 U | 1.12 | 1.00 | 112% | 1.17 | 1.00 | 117% | 4.4% | |
| cis-1,2-Dichloroethene | < 0.020 U | 1.05 | 1.00 | 105% | 1.08 | 1.00 | 108% | 2.8% | |
| trans-1,2-Dichloroethene | < 0.020 U | 1.04 | 1.00 | 104% | 1.08 | 1.00 | 108% | 3.8% | |
| Trichloroethene | < 0.020 U | 1.01 | 1.00 | 101% | 1.05 | 1.00 | 105% | 3.9% | |
| Tetrachloroethene | < 0.020 U | 1.05 | 1.00 | 105% | 1.09 | 1.00 | 109% | 3.7% | |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 04:40

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|-------|
| d4-1,2-Dichloroethane | 99.2% |
| d8-Toluene | 101% |


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 05:06

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 100% |
| d8-Toluene | 101% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-031910

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031910

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *RS*

Date Sampled: NA

Reported: 03/22/10

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCSD: NT7/PKC

LCSD: 10.0 mL

Date Analyzed LCS: 03/19/10 01:49

Purge Volume LCS: 10.0 mL

LCSD: 03/19/10 02:16

LCSD: 10.0 mL

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCS | RPD |
|--------------------------|-------|-----------|----------|-------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| 1,2-Dichloroethane | 0.941 | 1.00 | 94.1% | 0.992 | 1.00 | 99.2% | 5.3% |
| cis-1,2-Dichloroethene | 0.897 | 1.00 | 89.7% | 0.924 | 1.00 | 92.4% | 3.0% |
| trans-1,2-Dichloroethene | 0.901 | 1.00 | 90.1% | 0.925 | 1.00 | 92.5% | 2.6% |
| Trichloroethene | 0.900 | 1.00 | 90.0% | 0.955 | 1.00 | 95.5% | 5.9% |
| Tetrachloroethene | 0.928 | 1.00 | 92.8% | 0.989 | 1.00 | 98.9% | 6.4% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|-------|
| d4-1,2-Dichloroethane | 96.3% | 92.7% |
| d8-Toluene | 100% | 99.9% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0319

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QN31
 Lab File ID: 03191005
 Date Analyzed: 03/19/10
 Instrument ID: NT7

Client: FLOYD-SNIDER
 Project: LORA LAKES APARTMENTS
 Lab Sample ID: MB0319
 Time Analyzed: 0242
 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 | LCS0319 | LCS0319 | 03191003 | 0149 |
| 02 | LCSD0319 | LCSD0319 | 03191004 | 0216 |
| 03 | TB031110 | QN31E | 03191006 | 0320 |
| 04 | CB31A031110G | QN31A | 03191008 | 0413 |
| 05 | CB31A031110G | QN31AMS | 03191009 | 0440 |
| 06 | CB31A031110G | QN31AMSD | 03191010 | 0506 |
| 07 | CB1031110GRA | QN31B | 03191011 | 0533 |
| 08 | CB4857031110 | QN31C | 03191012 | 0559 |
| 09 | CB101031110G | QN31D | 03191013 | 0626 |
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-031910
 Page 1 of 1 METHOD BLANK

Lab Sample ID: MB-031910
 LIMS ID: 10-6027
 Matrix: Water
 Data Release Authorized: 
 Reported: 03/22/10

QC Report No: QN31-Floyd-Snider
 Project: Lora Lakes Apartments
 POS-LLA
 Date Sampled: NA
 Date Received: NA

Instrument/Analyst: NT7/PKC
 Date Analyzed: 03/19/10 02:42

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% |

TPHD ANALYSIS

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned


Page 1 of 1

Matrix: Water

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Data Release Authorized: 

Reported: 03/19/10

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|---|-----------------|-------------------|-------------|------------------------------------|--------------|-------------------------------|
| MB-031510 10-6027 | Method Blank HC ID: --- | 03/15/10 | 03/16/10 FID3A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 88.4% |
| QN31A 10-6027 | CB31A0311110GRAB HC ID: DRO/MOTOR OIL | 03/15/10 | 03/16/10 FID3A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | 0.30 1.3 83.9% |
| QN31B 10-6028 | CB10311110GRAB HC ID: --- | 03/15/10 | 03/16/10 FID3A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U < 0.50 U 83.9% |
| QN31C 10-6029 | CB48570311110GRAB HC ID: MOTOR OIL | 03/15/10 | 03/16/10 FID3A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.77 80.4% |
| QN31D 10-6030 | CB1010311110GRAB HC ID: MOTOR OIL | 03/15/10 | 03/16/10 FID3A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.25 0.50 | < 0.25 U 0.79 83.5% |

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: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MB-031510 | 88.4% | 0 |
| LCS-031510 | 90.2% | 0 |
| CB31A031110GRAB | 83.9% | 0 |
| CB31A031110GRAB MS | 83.1% | 0 |
| CB31A031110GRAB MSD | 78.9% | 0 |
| CB1031110GRAB | 83.9% | 0 |
| CB4857031110GRAB | 80.4% | 0 |
| CB101031110GRAB | 83.5% | 0 |

LCS/MB LIMITS

QC LIMITS

(OTER) = o-Terphenyl

(51-120)


(41-121)

Prep Method: SW3510C
Log Number Range: 10-6027 to 10-6030

ORGANICS ANALYSIS DATA SHEET

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

Sample ID: CB31A031110GRAB
MS/MSD

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Date Extracted MS/MSD: 03/15/10
Date Analyzed MS: 03/16/10 15:18
MSD: 03/16/10 15:35
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 | 0.30 | 2.38 | 3.00 | 69.3% | 2.39 | 3.00 | 69.7% | 0.4% |

TPHD Surrogate Recovery

| | MS | MSD |
|-------------|-------|-------|
| o-Terphenyl | 83.1% | 78.9% |

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-031510

LAB CONTROL

Lab Sample ID: LCS-031510

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: *B*

Reported: 03/19/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Date Extracted: 03/15/10

Date Analyzed: 03/16/10 16:45

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 | 2.47 | 3.00 | 82.3% |

TPHD Surrogate Recovery

| | |
|-------------|-------|
| o-Terphenyl | 90.2% |
|-------------|-------|

Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QN31MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QN31

Project No.: LORA LAKE APTS.

Date Extracted: 03/15/10

Matrix: LIQUID

Date Analyzed : 03/16/10

Instrument ID : FID3A

Time Analyzed : 1702

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | CB31A031110G | QN31A | 03/16/10 |
| 02 | CB31A031110G | QN31AMS | 03/16/10 |
| 03 | CB31A031110G | QN31AMSD | 03/16/10 |
| 04 | CB1031110GRA | QN31B | 03/16/10 |
| 05 | CB4857031110 | QN31C | 03/16/10 |
| 06 | CB101031110G | QN31D | 03/16/10 |
| 07 | QN31LCSW1 | QN31LCSW1 | 03/16/10 |
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Laboratory Data Package

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| ARI ID | Client ID | PV | DCE | TOL | BFB | DCB | TOT OUT |
|-------------|------------------|----|------|-----|-----|-----|---------|
| MB-031710 | Method Blank | 10 | 107% | NA | NA | NA | 0 |
| LCS-031710 | Lab Control | 10 | 111% | NA | NA | NA | 0 |
| LCSD-031710 | Lab Control Dup | 10 | 111% | NA | NA | NA | 0 |
| QN31A | CB31A031110GRAB | 10 | 114% | NA | NA | NA | 0 |
| QN31AMS | CB31A031110GRAB | 10 | 115% | NA | NA | NA | 0 |
| QN31AMSD | CB31A031110GRAB | 10 | 114% | NA | NA | NA | 0 |
| QN31B | CB1031110GRAB | 10 | 111% | NA | NA | NA | 0 |
| QN31C | CB4857031110GRAB | 10 | 112% | NA | NA | NA | 0 |
| QN31D | CB101031110GRAB | 10 | 110% | NA | NA | NA | 0 |
| QN31E | TB031110 | 10 | 109% | NA | NA | NA | 0 |

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

70-132
80-120
80-120
80-120


80-143
80-120
80-120
80-120

Prep Method: SW5030B
Log Number Range: 10-6027 to 10-6031

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
MATRIX SPIKE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/17/10 21:58
MSD: 03/17/10 22:23

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------------------|---------|------|----------------|-------------|------|-----------------|--------------|------|
| 1,2-Dichloroethane | < 0.2 U | 10.8 | 10.0 | 108% | 10.9 | 10.0 | 109% | 0.9% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1


Sample ID: LCS-031710

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031710

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/19/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT10/AAR

LCSD: NT10/AAR

Date Analyzed LCS: 03/17/10 11:25

LCSD: 03/17/10 11:50

Sample Amount LCS: 10.0 mL

LCSD: 10.0 mL

Purge Volume LCS: 10.0 mL

LCSD: 10.0 mL

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------------|------|-----------------|--------------|------|------------------|---------------|------|
| 1,2-Dichloroethane | 10.5 | 10.0 | 105% | 10.5 | 10.0 | 105% | 0.0% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|-----------------------|------|------|
| d4-1,2-Dichloroethane | 111% | 111% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0317

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QN31
 Lab File ID: MB0317
 Date Analyzed: 03/17/10
 Instrument ID: NT10

Client: FLOYD-SNIDER
 Project: LORA LAKES APARTMENTS
 Lab Sample ID: MB0317
 Time Analyzed: 1215
 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 | LCS0317 | LCS0317 | LCS0317 | 1125 |
| 02 | LCS0317 | LCSD0317 | LCS0317A | 1150 |
| 05 | TB031110 | QN31E | QN31E | 1452 |
| 12 | CB31A031110G | QN31A | QN31A | 1928 |
| 13 | CB1031110GRA | QN31B | QN31B | 1952 |
| 14 | CB4857031110 | QN31C | QN31C | 2018 |
| 15 | CB101031110G | QN31D | QN31D | 2043 |
| 18 | CB31A031110G | QN31A | QN31AMS | 2158 |
| 19 | CB31A031110G | QN31A | QN31AMSD | 2223 |
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

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

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: QN31

Lab File ID: BFB0304A BFB Injection Date: 03/04/10

Instrument ID: NT10 BFB Injection Time: 1757

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 8.0 - 40.0% of mass 95 | 19.1 |
| 75 | 30.0 - 66.0% of mass 95 | 51.3 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.7 (0.9)1 |
| 174 | 50.0 - 101.0% of mass 95 | 79.9 |
| 175 | 4.0 - 9.0% of mass 174 | 5.8 (7.2)1 |
| 176 | 93.0 - 101.0% of mass 174 | 77.5 (97.0)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD1 | IC001 | 0010304 | 03/04/10 | 1851 |
| 02 | VSTD2 | IC002 | 0020304 | 03/04/10 | 1920 |
| 03 | VSTD3 | IC005 | 0050304 | 03/04/10 | 1950 |
| 04 | VSTD10 | IC1500 | 15000304 | 03/04/10 | 2020 |
| 05 | VSTD9 | IC600 | 6000304 | 03/04/10 | 2050 |
| 06 | VSTD8 | IC400 | 4000304 | 03/04/10 | 2119 |
| 07 | VSTD7 | IC200 | 2000304 | 03/04/10 | 2149 |
| 08 | VSTD6 | IC100 | 1000304 | 03/04/10 | 2219 |
| 09 | VSTD5 | IC040 | 0400304 | 03/04/10 | 2248 |
| 10 | VSTD4 | IC010 | 0100304 | 03/04/10 | 2318 |
| 11 | ICV0304 | ICV0304 | ICV0304 | 03/04/10 | 2347 |
| 12 | | | | | |
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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 LAKES APARTMENTS SDG No.: QN31

Lab File ID: BFB0317 BFB Injection Date: 03/17/10

Instrument ID: NT10 BFB Injection Time: 1035

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 8.0 - 40.0% of mass 95 | 19.2 |
| 75 | 30.0 - 66.0% of mass 95 | 52.6 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.7 (0.9)1 |
| 174 | 50.0 - 101.0% of mass 95 | 81.1 |
| 175 | 4.0 - 9.0% of mass 174 | 5.8 (7.2)1 |
| 176 | 93.0 - 101.0% of mass 174 | 78.1 (96.2)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.0 (6.4)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 | CC0317 | CC0317 | 1000317 | 03/17/10 | 1100 |
| 02 | LCS0317 | LCS0317 | LCS0317 | 03/17/10 | 1125 |
| 03 | LCS0317 | LCSD0317 | LCS0317A | 03/17/10 | 1150 |
| 04 | MB0317 | MB0317 | MB0317 | 03/17/10 | 1215 |
| 07 | TB031110 | QN31E | QN31E | 03/17/10 | 1452 |
| 14 | CB31A031110GRAB | QN31A | QN31A | 03/17/10 | 1928 |
| 15 | CB1031110GRAB | QN31B | QN31B | 03/17/10 | 1952 |
| 16 | CB4857031110GRAB | QN31C | QN31C | 03/17/10 | 2018 |
| 17 | CB101031110GRAB | QN31D | QN31D | 03/17/10 | 2043 |
| 20 | CB31A031110GRAB | QN31A | QN31AMS | 03/17/10 | 2158 |
| 21 | CB31A031110GRAB | QN31A | QN31AMSD | 03/17/10 | 2223 |
| 22 | | | | | |

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0100304

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/04/10

| | IS1 (PFB) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CLB) AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 423621 | 5.27 | 680717 | 5.65 | 618251 | 7.72 |
| UPPER LIMIT | 847242 | 5.77 | 1361434 | 6.15 | 1236502 | 8.22 |
| LOWER LIMIT | 211810 | 4.77 | 340358 | 5.15 | 309126 | 7.22 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 ICV0304 | 448624 | 5.27 | 740075 | 5.66 | 681227 | 7.72 |
| 02 | | | | | | |
| 03 | | | | | | |
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IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0100304

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/04/10

| | IS4 (DCB) AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-------------|---------------------|-------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 216964 | 9.40 | | | | |
| UPPER LIMIT | 433928 | 9.90 | | | | |
| LOWER LIMIT | 108482 | 8.90 | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 ICV0304 | 241591 | 9.40 | | | | |
| 02 | | | | | | |
| 03 | | | | | | |
| 04 | | | | | | |
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| 22 | | | | | | |

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0100304

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/17/10

| | IS1 (PFB) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CLB) AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 423621 | 5.27 | 680717 | 5.65 | 618251 | 7.72 |
| UPPER LIMIT | 847242 | 5.77 | 1361434 | 6.15 | 1236502 | 8.22 |
| LOWER LIMIT | 211810 | 4.77 | 340358 | 5.15 | 309126 | 7.22 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 LCS0317 | 421758 | 5.27 | 703009 | 5.66 | 634695 | 7.72 |
| 02 LCS0317 | 404209 | 5.27 | 668282 | 5.66 | 620029 | 7.72 |
| 03 MB0317 | 405266 | 5.27 | 672326 | 5.65 | 581560 | 7.72 |
| 06 TB031110 | 385714 | 5.27 | 635681 | 5.66 | 557058 | 7.72 |
| 13 CB31A031110G | 406789 | 5.27 | 683960 | 5.66 | 591231 | 7.72 |
| 14 CB1031110GRA | 391302 | 5.27 | 651678 | 5.66 | 575425 | 7.72 |
| 15 CB4857031110 | 378488 | 5.27 | 631182 | 5.66 | 561492 | 7.72 |
| 16 CB101031110G | 382488 | 5.27 | 631920 | 5.66 | 560301 | 7.72 |
| 19 CB31A031110G | 395358 | 5.27 | 656413 | 5.66 | 607381 | 7.72 |
| 20 CB31A031110G | 401800 | 5.27 | 670108 | 5.66 | 618394 | 7.72 |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0100304

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/17/10

| | IS4 (DCB) AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-----------------|---------------------|-------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 216964 | 9.40 | | | | |
| UPPER LIMIT | 433928 | 9.90 | | | | |
| LOWER LIMIT | 108482 | 8.90 | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 LCS0317 | 236886 | 9.40 | | | | |
| 02 LCS0317 | 260491 | 9.40 | | | | |
| 03 MB0317 | 194881 | 9.40 | | | | |
| 04 TRIP BLANK | 194676 | 9.41 | | | | |
| 05 TRIP BLANK | 213532 | 9.40 | | | | |
| 06 TB031110 | 205179 | 9.40 | | | | |
| 07 2-10-PL2-232 | 210766 | 9.40 | | | | |
| 08 2-10-PL2-231 | 206496 | 9.40 | | | | |
| 09 2-10-PL2-230 | 200954 | 9.40 | | | | |
| 10 2-10-PL2-257 | 205949 | 9.40 | | | | |
| 11 2-10-PL2-262 | 195704 | 9.40 | | | | |
| 12 ER-031110-1 | 203892 | 9.40 | | | | |
| 13 CB31A031110G | 195164 | 9.40 | | | | |
| 14 CB1031110GRA | 217124 | 9.41 | | | | |
| 15 CB4857031110 | 209577 | 9.40 | | | | |
| 16 CB101031110G | 211856 | 9.41 | | | | |
| 17 2-10-PL2-257 | 250156 | 9.41 | | | | |
| 18 2-10-PL2-257 | 231470 | 9.41 | | | | |
| 19 CB31A031110G | 253596 | 9.41 | | | | |
| 20 CB31A031110G | 266871 | 9.41 | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31


prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
SAMPLE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 19:28

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 114%

Analytical Resources, Inc.

8260C AR3/18/2010

Data file : /chem1/nt10.i/17MAR10.b/qn31a.d
 Lab Smp Id: QN31A Client Smp ID: CB31A031110GRAB
 Inj Date : 17-MAR-2010 19:28
 Operator : ar Inst ID: nt10.i
 Smp Info : QN31A,10,10,0
 Misc Info : 10-6027
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 18-Mar-2010 14:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | |
| 2 Chloromethane | 50 | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | |
| 4 Bromomethane | 94 | | | | | | |
| 5 Chloroethane | 64 | | | | | | |
| 6 Trichlorofluoromethane | 101 | | | | | | |
| 8 Acrolein | 56 | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | |
| 10 Acetone | 43 | 3.326 | 3.320 | (0.631) | 7587 | 3.21038 | 3.210 (M) LR |
| 11 1,1-Dichloroethene | 96 | | | | | | |
| 12 Bromoethane | 108 | | | | | | |
| 13 Iodomethane | 142 | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|-------|--------|---------|------------------------|----------------------|----------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| ----- | ---- | == | ----- | ----- | ----- | ----- | ----- |
| 18 Trans-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 20 Vinyl Acetate | 43 | | | | Compound Not Detected. | | |
| 21 1,1-Dichloroethane | 63 | | | | Compound Not Detected. | | |
| 22 2-Butanone | 72 | 4.993 | 4.982 | (0.947) | 275 | 0.11467 | 0.1147(Q) <i>KPL</i> |
| 23 2,2-Dichloropropane | 77 | | | | Compound Not Detected. | | |
| 24 Cis-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 406789 | 10.0000 | |
| 26 Chloroform | 83 | | | | Compound Not Detected. | | |
| 27 Bromochloromethane | 128 | | | | Compound Not Detected. | | |
| \$ 28 Dibromofluoromethane | 111 | 4.885 | 4.880 | (0.927) | 181411 | 10.5582 | 10.558 |
| 29 1,1,1-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 30 1,1-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 31 Carbon Tetrachloride | 117 | | | | Compound Not Detected. | | |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 173606 | 11.3906 | 11.391 |
| 33 1,2-Dichloroethane | 62 | | | | Compound Not Detected. | | |
| 34 Benzene | 78 | | | | Compound Not Detected. | | |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 683960 | 10.0000 | |
| 36 Trichloroethene | 95 | | | | Compound Not Detected. | | |
| 37 1,2-Dichloropropane | 63 | | | | Compound Not Detected. | | |
| 38 Bromodichloromethane | 83 | | | | Compound Not Detected. | | |
| 39 Dibromomethane | 93 | | | | Compound Not Detected. | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | | | Compound Not Detected. | | |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 12369 | 3.64334 | 3.643 <i>KPL</i> |
| 42 Cis 1,3-dichloropropene | 75 | | | | Compound Not Detected. | | |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 825045 | 9.66846 | 9.668 |
| 44 Toluene | 92 | | | | Compound Not Detected. | | |
| 45 Trans 1,3-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 46 2-Hexanone | 43 | | | | Compound Not Detected. | | |
| 47 1,1,2-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 48 1,3-Dichloropropene | 76 | | | | Compound Not Detected. | | |
| 49 Tetrachloroethene | 166 | | | | Compound Not Detected. | | |
| 50 Chlorodibromomethane | 129 | | | | Compound Not Detected. | | |
| 51 1,2-Dibromoethane | 107 | | | | Compound Not Detected. | | |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 591231 | 10.0000 | |
| 53 Chlorobenzene | 112 | | | | Compound Not Detected. | | |
| 54 Ethyl Benzene | 91 | | | | Compound Not Detected. | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | | | Compound Not Detected. | | |
| 56 m,p-xylene | 106 | | | | Compound Not Detected. | | |
| 58 o-Xylene | 106 | | | | Compound Not Detected. | | |
| 59 Styrene | 104 | | | | Compound Not Detected. | | |
| 60 Isopropyl Benzene | 105 | | | | Compound Not Detected. | | |
| 61 Bromoform | 173 | | | | Compound Not Detected. | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | | | Compound Not Detected. | | |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 235605 | 10.0530 | 10.053 |
| 64 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | | | Compound Not Detected. | | |
| 66 N-Propyl Benzene | 91 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | | | | | | |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | | | |
| 69 2-Chloro Toluene | 91 | | | | | | |
| 70 4-Chloro Toluene | 91 | | | | | | |
| 71 T-Butyl Benzene | 119 | | | | | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | | | |
| 73 S-Butyl Benzene | 105 | | | | | | |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 8775 | 0.11633 | 0.1163 <i>VA</i> |
| 75 1,3-Dichlorobenzene | 146 | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 195164 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | | | |
| 78 N-Butyl Benzene | 91 | | | | | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.728 | 9.728 | (1.034) | 158056 | 10.3952 | 10.395 |
| 80 1,2-Dichlorobenzene | 146 | | | | | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 83 Hexachloro 1,3-Butadiene | 225 | | | | | | |
| 84 Naphthalene | 128 | | | | | | |
| 85 1,2,3-Trichlorobenzene | 180 | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: qn31a.d
 Lab Smp Id: QN31A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-6027

Calibration Date: 17-MAR-2010
 Calibration Time: 11:00
 Client Smp ID: CB31A031110GRAB
 Level: LOW
 Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 406789 | -11.91 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 683960 | -8.33 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 591231 | -11.19 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 195164 | -17.19 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

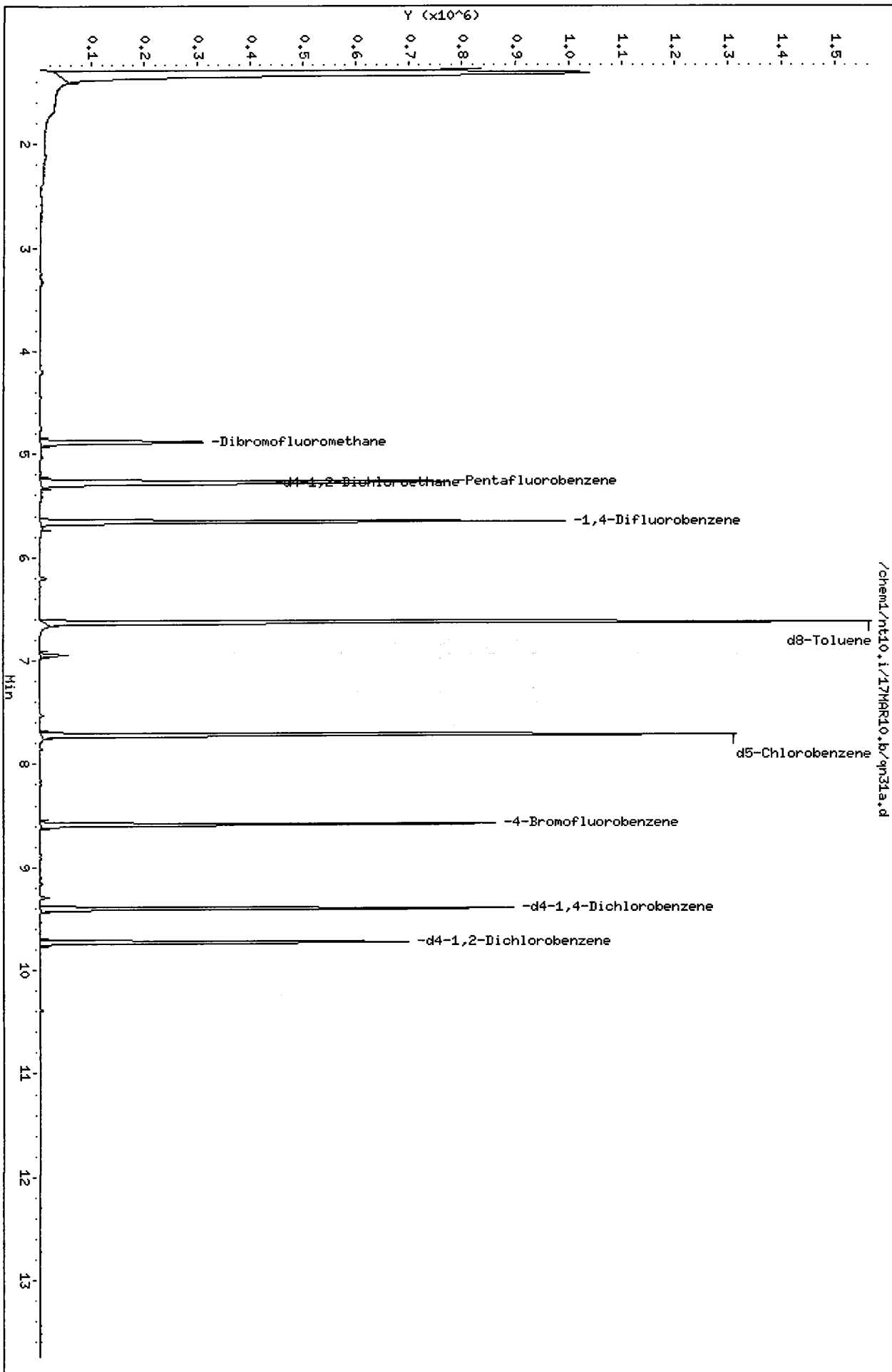
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31A
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6027

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB31A031110GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.558 | 105.58 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.391 | 113.91 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.668 | 96.68 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.053 | 100.53 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.395 | 103.95 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/qn31a.d
Date : 17-MAR-2010 19:28
Client ID: CB31A034110GRAB
Sample Info: QN31A,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: CB1031110GRAB

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SAMPLE

Lab Sample ID: QN31B


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6028

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/19/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 19:52

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 111%

Analytical Resources, Inc.

8260C AR 3/18/2010

Data file : /chem1/nt10.i/17MAR10.b/qn31b.d
 Lab Smp Id: QN31B Client Smp ID: CB1031110GRAB
 Inj Date : 17-MAR-2010 19:52
 Operator : ar Inst ID: nt10.i
 Smp Info : QN31B,10,10,0
 Misc Info : 10-6028
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 18-Mar-2010 14:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | | |
| 2 Chloromethane | 50 | | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | | |
| 4 Bromomethane | 94 | | | | | | | |
| 5 Chloroethane | 64 | | | | | | | |
| 6 Trichlorofluoromethane | 101 | | | | | | | |
| 8 Acrolein | 56 | | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | | |
| 10 Acetone | 43 | | 3.326 | 3.320 | (0.631) | 5313 | 2.33713 | 2.337 <i>URL</i> |
| 11 1,1-Dichloroethene | 96 | | | | | | | |
| 12 Bromoethane | 108 | | | | | | | |
| 13 Iodomethane | 142 | | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 20 Vinyl Acetate | 43 | | | | Compound Not Detected. | | |
| 21 1,1-Dichloroethane | 63 | | | | Compound Not Detected. | | |
| 23 2,2-Dichloropropane | 77 | | | | Compound Not Detected. | | |
| 24 Cis-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 391302 | 10.0000 | |
| 26 Chloroform | 83 | | | | Compound Not Detected. | | |
| 27 Bromochloromethane | 128 | | | | Compound Not Detected. | | |
| \$ 28 Dibromofluoromethane | 111 | 4.885 | 4.880 | (0.927) | 171079 | 10.3509 | 10.351 |
| 29 1,1,1-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 30 1,1-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 31 Carbon Tetrachloride | 117 | | | | Compound Not Detected. | | |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 163162 | 11.1291 | 11.129 |
| 33 1,2-Dichloroethane | 62 | | | | Compound Not Detected. | | |
| 34 Benzene | 78 | | | | Compound Not Detected. | | |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 651678 | 10.0000 | |
| 36 Trichloroethene | 95 | | | | Compound Not Detected. | | |
| 37 1,2-Dichloropropane | 63 | | | | Compound Not Detected. | | |
| 38 Bromodichloromethane | 83 | | | | Compound Not Detected. | | |
| 39 Dibromomethane | 93 | | | | Compound Not Detected. | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | | | Compound Not Detected. | | |
| 41 4-Methyl-2-Pentanone | 58 | | | | Compound Not Detected. | | |
| 42 Cis 1,3-dichloropropene | 75 | | | | Compound Not Detected. | | |
| \$ 43 d8-Toluene | 98 | 6.632 | 6.633 | (1.172) | 793759 | 9.76261 | 9.763 |
| 44 Toluene | 92 | | | | Compound Not Detected. | | |
| 45 Trans 1,3-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 46 2-Hexanone | 43 | | | | Compound Not Detected. | | |
| 47 1,1,2-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 48 1,3-Dichloropropane | 76 | | | | Compound Not Detected. | | |
| 49 Tetrachloroethene | 166 | | | | Compound Not Detected. | | |
| 50 Chlorodibromomethane | 129 | | | | Compound Not Detected. | | |
| 51 1,2-Dibromoethane | 107 | | | | Compound Not Detected. | | |
| * 52 d5-Chlorobenzene | 117 | 7.719 | 7.720 | (1.000) | 575425 | 10.0000 | |
| 53 Chlorobenzene | 112 | | | | Compound Not Detected. | | |
| 54 Ethyl Benzene | 91 | | | | Compound Not Detected. | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | | | Compound Not Detected. | | |
| 56 m,p-xylene | 106 | | | | Compound Not Detected. | | |
| 58 o-Xylene | 106 | | | | Compound Not Detected. | | |
| 59 Styrene | 104 | | | | Compound Not Detected. | | |
| 60 Isopropyl Benzene | 105 | | | | Compound Not Detected. | | |
| 61 Bromoform | 173 | | | | Compound Not Detected. | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | | | Compound Not Detected. | | |
| \$ 63 4-Bromofluorobenzene | 95 | 8.584 | 8.585 | (1.112) | 241113 | 10.5706 | 10.571 |
| 64 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | | | Compound Not Detected. | | |
| 66 N-Propyl Benzene | 91 | | | | Compound Not Detected. | | |
| 67 Bromobenzene | 156 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | | | |
| 69 2-Chloro Toluene | 91 | | | | | | |
| 70 4-Chloro Toluene | 91 | | | | | | |
| 71 T-Butyl Benzene | 119 | | | | | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | | | |
| 73 S-Butyl Benzene | 105 | | | | | | |
| 74 4-Isopropyl Toluene | 119 | | | | | | |
| 75 1,3-Dichlorobenzene | 146 | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.404 | (1.000) | 217124 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | | | |
| 78 N-Butyl Benzene | 91 | | | | | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.728 | (1.034) | 174013 | 10.2872 | 10.287 |
| 80 1,2-Dichlorobenzene | 146 | | | | | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 83 Hexachloro 1,3-Butadiene | 225 | | | | | | |
| 84 Naphthalene | 128 | | | | | | |
| 85 1,2,3-Trichlorobenzene | 180 | | | | | | |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: qn31b.d
Lab Smp Id: QN31B
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6028
Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: CB1031110GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 391302 | -15.27 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 651678 | -12.66 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 575425 | -13.56 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 217124 | -7.87 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.01 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

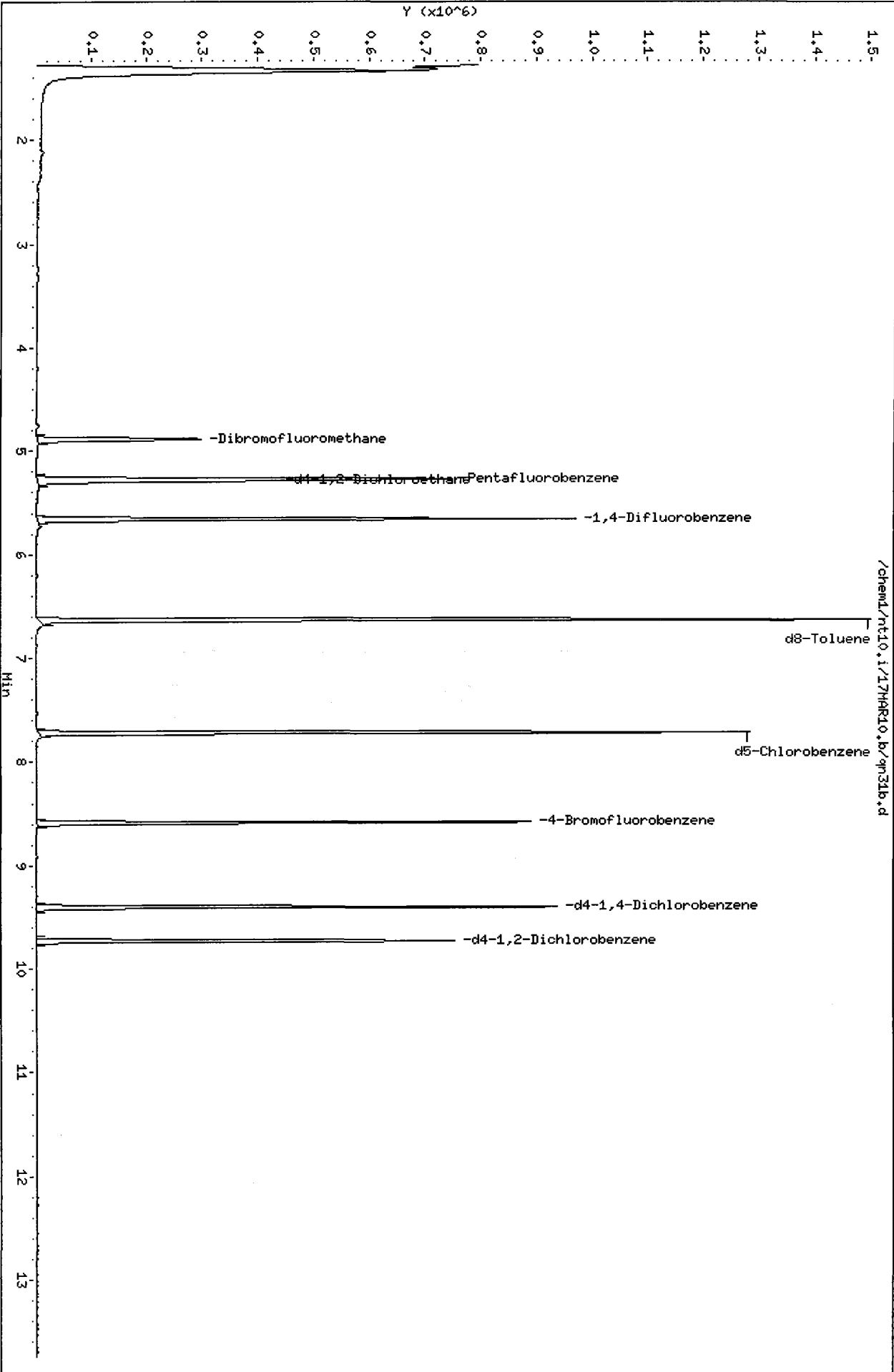
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31B
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6028

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB1031110GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.351 | 103.51 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.129 | 111.29 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.763 | 97.63 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.571 | 105.71 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.287 | 102.87 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/qn31b.d
Date: 17-MAR-2010 19:52
Client ID: CB1031110GRAB
Sample Info: QN31B,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: CB4857031110GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QN31C


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6029

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/19/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 20:18

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 112%

Analytical Resources, Inc.

8260C AR 3/18/2010
Data file : /chem1/nt10.i/17MAR10.b/qn31c.d
Lab Smp Id: QN31C Client Smp ID: CB4857031110GRAB
Inj Date : 17-MAR-2010 20:18
Operator : ar Inst ID: nt10.i
Smp Info : QN31C,10,10,0
Misc Info : 10-6029
Comment :
Method : /chem1/nt10.i/17MAR10.b/82600304L.m
Meth Date : 18-Mar-2010 14:35 aron Quant Type: ISTD
Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|----------------------|---------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | |
| 2 Chloromethane | 50 | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | |
| 4 Bromomethane | 94 | | | | | | |
| 5 Chloroethane | 64 | | | | | | |
| 6 Trichlorofluoromethane | 101 | | | | | | |
| 8 Acrolein | 56 | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | |
| 10 Acetone | 43 | 3.332 | 3.320 | (0.632) | 6023 | 2.73950 | 2.740 (M) <i>LR</i> |
| 11 1,1-Dichloroethene | 96 | | | | | | |
| 12 Bromoethane | 108 | | | | | | |
| 13 Iodomethane | 142 | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | |

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | | |
|--------------------------------|-----------|----------------|-------|---------|---------|----------|-------------------|---------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | |
| 18 Trans-1,2-Dichloroethene | 96 | | | | | | | |
| 20 Vinyl Acetate | 43 | | | | | | | |
| 21 1,1-Dichloroethane | 63 | | | | | | | |
| 23 2,2-Dichloropropane | 77 | | | | | | | |
| 24 Cis-1,2-Dichloroethene | 96 | | | | | | | |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 378488 | 10.0000 | | |
| 26 Chloroform | 83 | | | | | | | |
| 27 Bromochloromethane | 128 | | | | | | | |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 167961 | 10.5063 | 10.506 | |
| 29 1,1,1-Trichloroethane | 97 | | | | | | | |
| 30 1,1-Dichloropropene | 75 | | | | | | | |
| 31 Carbon Tetrachloride | 117 | | | | | | | |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 158052 | 11.1455 | 11.145 | |
| 33 1,2-Dichloroethane | 62 | | | | | | | |
| 34 Benzene | 78 | | | | | | | |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 631182 | 10.0000 | | |
| 36 Trichloroethene | 95 | | | | | | | |
| 37 1,2-Dichloropropane | 63 | | | | | | | |
| 38 Bromodichloromethane | 83 | | | | | | | |
| 39 Dibromomethane | 93 | | | | | | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | | | | | | |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 7744 | 2.47176 | 2.472 | <i>PL</i> |
| 42 Cis 1,3-dichloropropene | 75 | | | | | | | |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 1768913 | 9.76412 | 9.764 | |
| 44 Toluene | 92 | | | | | | | |
| 45 Trans 1,3-Dichloropropene | 75 | | | | | | | |
| 46 2-Hexanone | 43 | | | | | | | |
| 47 1,1,2-Trichloroethane | 97 | | | | | | | |
| 48 1,3-Dichloropropane | 76 | | | | | | | |
| 49 Tetrachloroethene | 166 | | | | | | | |
| 50 Chlorodibromomethane | 129 | | | | | | | |
| 51 1,2-Dibromoethane | 107 | | | | | | | |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 561492 | 10.0000 | | |
| 53 Chlorobenzene | 112 | | | | | | | |
| 54 Ethyl Benzene | 91 | | | | | | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | | | | | | |
| 56 m,p-xylene | 106 | | | | | | | |
| 58 o-Xylene | 106 | | | | | | | |
| 59 Styrene | 104 | | | | | | | |
| 60 Isopropyl Benzene | 105 | | | | | | | |
| 61 Bromoform | 173 | | | | | | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | | | | | | |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 237663 | 10.6779 | 10.678 | |
| 64 1,2,3-Trichloropropane | 110 | | | | | | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | | | | | | |
| 66 N-Propyl Benzene | 91 | | | | | | | |
| 67 Bromobenzene | 156 | | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | | | |
| 69 2-Chloro Toluene | 91 | | | | | | |
| 70 4-Chloro Toluene | 91 | | | | | | |
| 71 T-Butyl Benzene | 119 | | | | | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | | | |
| 73 S-Butyl Benzene | 105 | | | | | | |
| 74 4-Isopropyl Toluene | 119 | | | | | | |
| 75 1,3-Dichlorobenzene | 146 | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 209577 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | | | |
| 78 N-Butyl Benzene | 91 | | | | | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.729 | 9.728 | (1.034) | 170185 | 10.4232 | 10.423 |
| 80 1,2-Dichlorobenzene | 146 | | | | | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 83 Hexachloro 1,3-Butadiene | 225 | | | | | | |
| 84 Naphthalene | 128 | | | | | | |
| 85 1,2,3-Trichlorobenzene | 180 | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: qn31c.d
Lab Smp Id: QN31C
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6029

Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: CB4857031110GRAB
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzene | 461804 | 230902 | 923608 | 378488 | -18.04 |
| 35 1,4-Difluorobenzene | 746135 | 373068 | 1492270 | 631182 | -15.41 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 561492 | -15.65 |
| 76 d4-1,4-Dichlorobenzene | 235664 | 117832 | 471328 | 209577 | -11.07 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzene | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenzene | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobenzene | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

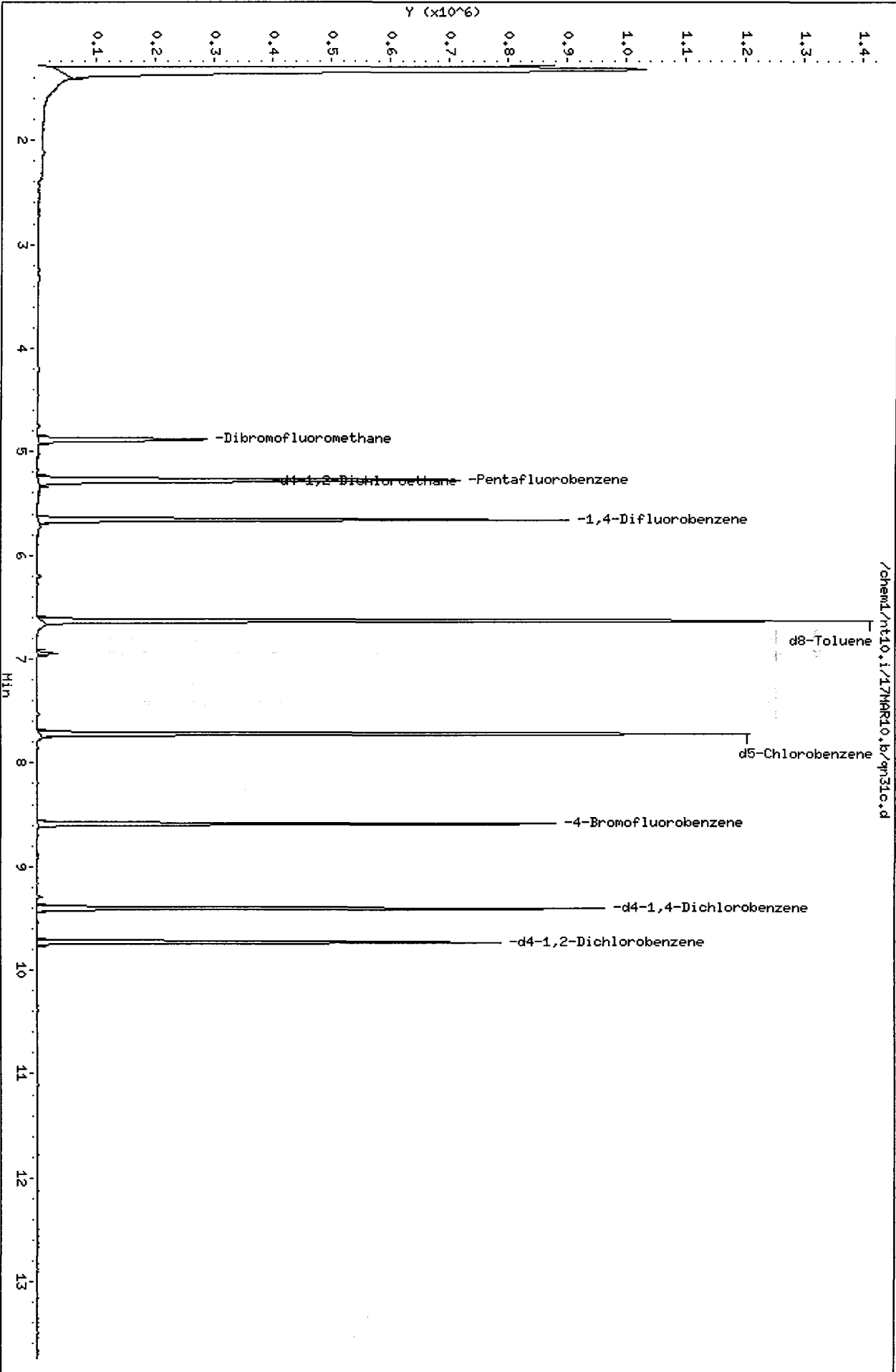
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31C
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6029

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB4857031110GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.506 | 105.06 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.145 | 111.45 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.764 | 97.64 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.678 | 106.78 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.423 | 104.23 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/qn31c.d
Date: 17-MAR-2010 20:18
Client ID: CR4857031110CRAB
Sample Info: QN31C.10.10.0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB101031110GRAB
SAMPLE

Lab Sample ID: QN31D
LIMS ID: 10-6030
Matrix: Water
Data Release Authorized: *AB*
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 20:43

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

Analytical Resources, Inc.

8260C

AR 3/18/2010

Data file : /chem1/nt10.i/17MAR10.b/qn31d.d
Lab Smp Id: QN31D Client Smp ID: CB101031110GRAB
Inj Date : 17-MAR-2010 20:43
Operator : ar Inst ID: nt10.i
Smp Info : QN31D,10,10,0
Misc Info : 10-6030
Comment :
Method : /chem1/nt10.i/17MAR10.b/82600304L.m
Meth Date : 18-Mar-2010 14:35 aron Quant Type: ISTD
Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|-------------------|---------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | |
| 2 Chloromethane | 50 | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | |
| 4 Bromomethane | 94 | | | | | | |
| 5 Chloroethane | 64 | | | | | | |
| 6 Trichlorofluoromethane | 101 | | | | | | |
| 8 Acrolein | 56 | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | |
| 10 Acetone | 43 | 3.320 | 3.320 | (0.630) | 5934 | 2.67045 | 2.670 (M) <i>LR</i> |
| 11 1,1-Dichloroethene | 96 | | | | | | |
| 12 Bromoethane | 108 | | | | | | |
| 13 Iodomethane | 142 | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|-------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 20 Vinyl Acetate | 43 | | | | Compound Not Detected. | | |
| 21 1,1-Dichloroethane | 63 | | | | Compound Not Detected. | | |
| 23 2,2-Dichloropropane | 77 | | | | Compound Not Detected. | | |
| 24 Cis-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 382488 | 10.0000 | |
| 26 Chloroform | 83 | | | | Compound Not Detected. | | |
| 27 Bromochloromethane | 128 | | | | Compound Not Detected. | | |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 168462 | 10.4275 | 10.427 |
| 29 1,1,1-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 30 1,1-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 31 Carbon Tetrachloride | 117 | | | | Compound Not Detected. | | |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 158371 | 11.0512 | 11.051 |
| 33 1,2-Dichloroethane | 62 | | | | Compound Not Detected. | | |
| 34 Benzene | 78 | | | | Compound Not Detected. | | |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 631920 | 10.0000 | |
| 36 Trichloroethene | 95 | | | | Compound Not Detected. | | |
| 37 1,2-Dichloropropane | 63 | | | | Compound Not Detected. | | |
| 38 Bromodichloromethane | 83 | | | | Compound Not Detected. | | |
| 39 Dibromomethane | 93 | | | | Compound Not Detected. | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | | | Compound Not Detected. | | |
| 41 4-Methyl-2-Pentanone | 58 | 6.945 | 6.946 | (1.227) | 7826 | 2.49502 | 2.495 <i>IR</i> |
| 42 Cis 1,3-dichloropropene | 75 | | | | Compound Not Detected. | | |
| \$ 43 d8-Toluene | 98 | 6.632 | 6.633 | (1.172) | 776278 | 9.84613 | 9.846 |
| 44 Toluene | 92 | | | | Compound Not Detected. | | |
| 45 Trans 1,3-Dichloropropene | 75 | | | | Compound Not Detected. | | |
| 46 2-Hexanone | 43 | | | | Compound Not Detected. | | |
| 47 1,1,2-Trichloroethane | 97 | | | | Compound Not Detected. | | |
| 48 1,3-Dichloropropane | 76 | | | | Compound Not Detected. | | |
| 49 Tetrachloroethene | 166 | | | | Compound Not Detected. | | |
| 50 Chlorodibromomethane | 129 | | | | Compound Not Detected. | | |
| 51 1,2-Dibromoethane | 107 | | | | Compound Not Detected. | | |
| * 52 d5-Chlorobenzene | 117 | 7.719 | 7.720 | (1.000) | 560301 | 10.0000 | |
| 53 Chlorobenzene | 112 | | | | Compound Not Detected. | | |
| 54 Ethyl Benzene | 91 | | | | Compound Not Detected. | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | | | Compound Not Detected. | | |
| 56 m,p-xylene | 106 | | | | Compound Not Detected. | | |
| 58 o-Xylene | 106 | | | | Compound Not Detected. | | |
| 59 Styrene | 104 | | | | Compound Not Detected. | | |
| 60 Isopropyl Benzene | 105 | | | | Compound Not Detected. | | |
| 61 Bromoform | 173 | | | | Compound Not Detected. | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | | | Compound Not Detected. | | |
| \$ 63 4-Bromofluorobenzene | 95 | 8.584 | 8.585 | (1.112) | 236339 | 10.6410 | 10.641 |
| 64 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | | | Compound Not Detected. | | |
| 66 N-Propyl Benzene | 91 | | | | Compound Not Detected. | | |
| 67 Bromobenzene | 156 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | | | |
| 69 2-Chloro Toluene | 91 | | | | | | |
| 70 4-Chloro Toluene | 91 | | | | | | |
| 71 T-Butyl Benzene | 119 | | | | | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | | | |
| 73 S-Butyl Benzene | 105 | | | | | | |
| 74 4-Isopropyl Toluene | 119 | | | | | | |
| 75 1,3-Dichlorobenzene | 146 | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.404 | (1.000) | 211856 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | | | |
| 78 N-Butyl Benzene | 91 | | | | | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.728 | (1.034) | 172349 | 10.4422 | 10.442 |
| 80 1,2-Dichlorobenzene | 146 | | | | | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 83 Hexachloro 1,3-Butadiene | 225 | | | | | | |
| 84 Naphthalene | 128 | | | | | | |
| 85 1,2,3-Trichlorobenzene | 180 | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: qn31d.d
Lab Smp Id: QN31D
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6030

Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: CB101031110GRAB
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 382488 | -17.18 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 631920 | -15.31 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 560301 | -15.83 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 211856 | -10.10 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

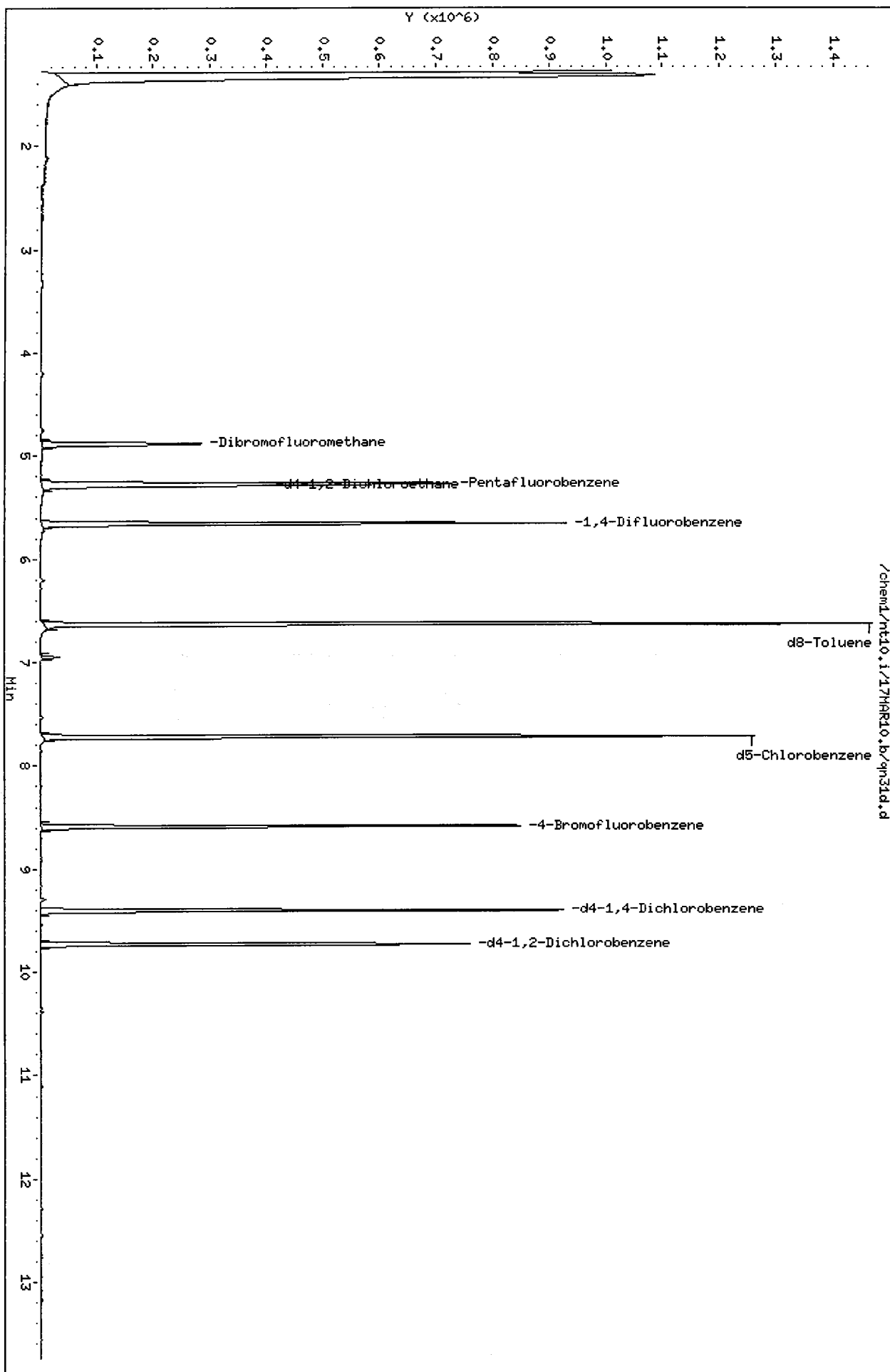
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31D
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6030

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB101031110GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.427 | 104.27 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.051 | 110.51 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.846 | 98.46 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.641 | 106.41 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.442 | 104.42 | 80-120 |

Data File: /chem/nt10.i/17MAR10.b/qn31d.d
Date: 17-MAR-2010 20:43
Client ID: CR101031110GRAB
Sample Info: QN31D,10,10,0
Column phase: RTX502.2


Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: TB031110
Trip Blank

Lab Sample ID: QN31E
LIMS ID: 10-6031
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 14:52

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

Analytical Resources, Inc.

8260C
Data file : /chem1/nt10.i/17MAR10.b/qn31e.d
Lab Smp Id: QN31E Client Smp ID: TB031110
Inj Date : 17-MAR-2010 14:52
Operator : ar Inst ID: nt10.i
Smp Info : QN31E,10,10,0,TB
Misc Info : 10-6031
Comment :
Method : /chem1/nt10.i/17MAR10.b/82600304L.m
Meth Date : 18-Mar-2010 14:35 aron Quant Type: ISTD
Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

AR 3/18/2010

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|----|--------|--------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | |
| 2 Chloromethane | 50 | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | |
| 4 Bromomethane | 94 | | | | | | |
| 5 Chloroethane | 64 | | | | | | |
| 6 Trichlorofluoromethane | 101 | | | | | | |
| 8 Acrolein | 56 | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | |
| 10 Acetone | 43 | | | | | | |
| 11 1,1-Dichloroethene | 96 | | | | | | |
| 12 Bromoethane | 108 | | | | | | |
| 13 Iodomethane | 142 | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | |

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | |
|--------------------------------|-----------|----------------|----------|---------|-----------|----------|-------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | | Compound | Not | Detected. | | |
| 20 Vinyl Acetate | 43 | | Compound | Not | Detected. | | |
| 21 1,1-Dichloroethane | 63 | | Compound | Not | Detected. | | |
| 22 2-Butanone | 72 | | Compound | Not | Detected. | | |
| 23 2,2-Dichloropropane | 77 | | Compound | Not | Detected. | | |
| 24 Cis-1,2-Dichloroethene | 96 | | Compound | Not | Detected. | | |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.267 | (1.000) | 385714 | 10.0000 | |
| 26 Chloroform | 83 | | Compound | Not | Detected. | | |
| 27 Bromochloromethane | 128 | | Compound | Not | Detected. | | |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 167156 | 10.2601 | 10.260 |
| 29 1,1,1-Trichloroethane | 97 | | Compound | Not | Detected. | | |
| 30 1,1-Dichloropropene | 75 | | Compound | Not | Detected. | | |
| 31 Carbon Tetrachloride | 117 | | Compound | Not | Detected. | | |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 156921 | 10.8584 | 10.858 |
| 33 1,2-Dichloroethane | 62 | | Compound | Not | Detected. | | |
| 34 Benzene | 78 | | Compound | Not | Detected. | | |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 635681 | 10.0000 | |
| 36 Trichloroethene | 95 | | Compound | Not | Detected. | | |
| 37 1,2-Dichloropropane | 63 | | Compound | Not | Detected. | | |
| 38 Bromodichloromethane | 83 | | Compound | Not | Detected. | | |
| 39 Dibromomethane | 93 | | Compound | Not | Detected. | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | Compound | Not | Detected. | | |
| 41 4-Methyl-2-Pentanone | 58 | | Compound | Not | Detected. | | |
| 42 Cis 1,3-dichloropropene | 75 | | Compound | Not | Detected. | | |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 772390 | 9.73886 | 9.739 |
| 44 Toluene | 92 | | Compound | Not | Detected. | | |
| 45 Trans 1,3-Dichloropropene | 75 | | Compound | Not | Detected. | | |
| 46 2-Hexanone | 43 | | Compound | Not | Detected. | | |
| 47 1,1,2-Trichloroethane | 97 | | Compound | Not | Detected. | | |
| 48 1,3-Dichloropropane | 76 | | Compound | Not | Detected. | | |
| 49 Tetrachloroethene | 166 | | Compound | Not | Detected. | | |
| 50 Chlorodibromomethane | 129 | | Compound | Not | Detected. | | |
| 51 1,2-Dibromoethane | 107 | | Compound | Not | Detected. | | |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 557058 | 10.0000 | |
| 53 Chlorobenzene | 112 | | Compound | Not | Detected. | | |
| 54 Ethyl Benzene | 91 | | Compound | Not | Detected. | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | Compound | Not | Detected. | | |
| 56 m,p-xylene | 106 | | Compound | Not | Detected. | | |
| 58 o-Xylene | 106 | | Compound | Not | Detected. | | |
| 59 Styrene | 104 | | Compound | Not | Detected. | | |
| 60 Isopropyl Benzene | 105 | | Compound | Not | Detected. | | |
| 61 Bromoform | 173 | | Compound | Not | Detected. | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | Compound | Not | Detected. | | |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 232933 | 10.5487 | 10.549 |
| 64 1,2,3-Trichloropropene | 110 | | Compound | Not | Detected. | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | Compound | Not | Detected. | | |
| 66 N-Propyl Benzene | 91 | | Compound | Not | Detected. | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | | | | Compound Not Detected. | | |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | Compound Not Detected. | | |
| 69 2-Chloro Toluene | 91 | | | | Compound Not Detected. | | |
| 70 4-Chloro Toluene | 91 | | | | Compound Not Detected. | | |
| 71 T-Butyl Benzene | 119 | | | | Compound Not Detected. | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | Compound Not Detected. | | |
| 73 S-Butyl Benzene | 105 | | | | Compound Not Detected. | | |
| 74 4-Isopropyl Toluene | 119 | | | | Compound Not Detected. | | |
| 75 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 205179 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 78 N-Butyl Benzene | 91 | | | | Compound Not Detected. | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.728 | (1.035) | 165735 | 10.3682 | 10.368 |
| 80 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | Compound Not Detected. | | |
| 82 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| 83 Hexachloro 1,3-Butadiene | 225 | | | | Compound Not Detected. | | |
| 84 Naphthalene | 128 | | | | Compound Not Detected. | | |
| 85 1,2,3-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: qn31e.d
Lab Smp Id: QN31E
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6031

Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: TB031110
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 385714 | -16.48 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 635681 | -14.80 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 557058 | -16.32 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 205179 | -12.94 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

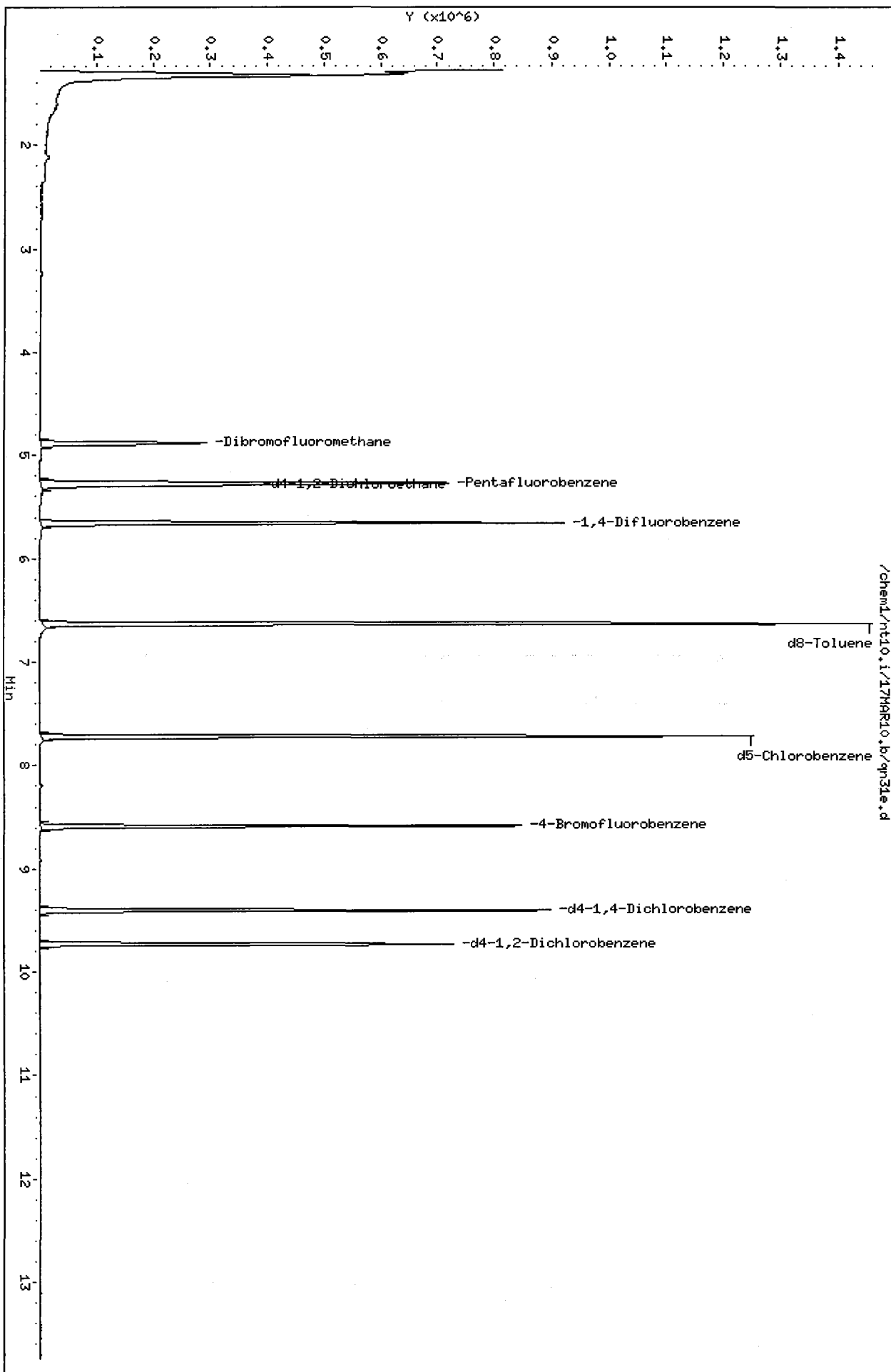
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31E
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6031

Client SDG: QN31
Fraction: VOA
Client Smp ID: TB031110
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.260 | 102.60 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 10.858 | 108.58 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.739 | 97.39 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.549 | 105.49 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.368 | 103.68 | 80-120 |

Data File: /chem/nt10.i/17MAR10.b/qn31e.d
Date: 17-MAR-2010 14:52
Client ID: TB031110
Sample Info: QN31E,10,10,0,1B
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF0.1: 0010304 RF0.2: 0020304 RF0.5: 0050304
RF1: 0100304 RF4: 0400304

| COMPOUND | RF0.1 | RF0.2 | RF0.5 | RF1 | RF4 |
|---------------------------------------|-------|-------|-------|-------|-------|
| Chloromethane | | | 0.463 | 0.502 | 0.371 |
| Vinyl Chloride | | 0.581 | 0.578 | 0.572 | 0.478 |
| Bromomethane | | | 0.535 | 0.784 | 0.437 |
| Chloroethane | | 0.399 | 0.452 | 0.425 | 0.362 |
| Trichlorofluoromethane | | 0.749 | 0.810 | 0.790 | 0.695 |
| Acrolein | | | | 0.013 | 0.012 |
| 1,1,2-Trichloro-2,2,2-Trifluoroethane | | 0.458 | 0.500 | 0.484 | 0.412 |
| Acetone | | | | 0.083 | 0.055 |
| 1,1-Dichloroethene | | 0.574 | 0.618 | 0.596 | 0.522 |
| Bromoethane | | 0.322 | 0.335 | 0.357 | 0.325 |
| Iodomethane | | | 0.607 | 0.927 | 0.644 |
| Methylene Chloride | | | 0.678 | 0.606 | 0.444 |
| Acrylonitrile | | | | 0.051 | 0.053 |
| Carbon Disulfide | | 1.745 | 1.762 | 1.687 | 1.564 |
| Trans-1,2-Dichloroethene | | 0.550 | 0.578 | 0.566 | 0.518 |
| Vinyl Acetate | | 0.353 | 0.348 | 0.333 | 0.353 |
| 1,1-Dichloroethane | | 0.897 | 0.917 | 0.924 | 0.894 |
| 2-Butanone | | | | 0.056 | 0.056 |
| 2,2-Dichloropropane | | 0.333 | 0.302 | 0.270 | 0.285 |
| Cis-1,2-Dichloroethene | | 0.612 | 0.610 | 0.583 | 0.570 |
| Chloroform | | 0.911 | 0.979 | 0.959 | 0.940 |
| Bromochloromethane | 0.184 | 0.200 | 0.204 | 0.203 | 0.197 |
| 1,1,1-Trichloroethane | | 0.766 | 0.747 | 0.760 | 0.730 |
| 1,1-Dichloropropene | | 0.506 | 0.522 | 0.516 | 0.503 |
| Carbon Tetrachloride | | 0.372 | 0.367 | 0.359 | 0.375 |
| 1,2-Dichloroethane | | 0.327 | 0.325 | 0.318 | 0.303 |
| Benzene | | 1.468 | 1.432 | 1.433 | 1.412 |
| Trichloroethene | | 0.332 | 0.362 | 0.367 | 0.366 |
| 1,2-Dichloropropane | | 0.300 | 0.305 | 0.305 | 0.304 |
| Bromodichloromethane | | 0.410 | 0.388 | 0.395 | 0.390 |
| Dibromomethane | | 0.128 | 0.124 | 0.124 | 0.123 |
| 2-Chloroethyl Vinyl Ether | | | | 0.085 | 0.089 |
| 4-Methyl-2-Pentanone | | | | 0.046 | 0.042 |
| Cis 1,3-dichloropropene | | 0.369 | 0.382 | 0.390 | 0.411 |
| Toluene | | 0.942 | 0.978 | 0.971 | 0.963 |
| Trans 1,3-Dichloropropene | | 0.270 | 0.266 | 0.272 | 0.300 |
| 2-Hexanone | | | | 0.080 | 0.075 |

FORM VI VOA

QN31 : 00099

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF0.1: 0010304 RF0.2: 0020304 RF0.5: 0050304

RF1: 0100304 RF4: 0400304

| COMPOUND | RF0.1 | RF0.2 | RF0.5 | RF1 | RF4 |
|-----------------------------|-------|-------|-------|-------|-------|
| 1,1,2-Trichloroethane | | 0.188 | 0.185 | 0.185 | 0.186 |
| 1,3-Dichloropropane | | 0.392 | 0.367 | 0.373 | 0.380 |
| Tetrachloroethene | | 0.445 | 0.444 | 0.434 | 0.440 |
| Chlorodibromomethane | | 0.244 | 0.247 | 0.240 | 0.258 |
| 1,2-Dibromoethane | | 0.161 | 0.157 | 0.157 | 0.165 |
| Chlorobenzene | | 1.153 | 1.107 | 1.086 | 1.107 |
| Ethyl Benzene | | 2.181 | 2.096 | 2.071 | 2.060 |
| 1,1,1,2-Tetrachloroethane | | 0.317 | 0.325 | 0.323 | 0.322 |
| m,p-xylene | 0.752 | 0.748 | 0.754 | 0.772 | 0.775 |
| o-Xylene | | 0.703 | 0.692 | 0.717 | 0.702 |
| Styrene | | 1.034 | 1.013 | 1.046 | 1.071 |
| Bromoform | | 0.299 | 0.298 | 0.292 | 0.320 |
| 1,1,2,2-Tetrachloroethane | | 0.476 | 0.487 | 0.484 | 0.453 |
| 1,2,3-Trichloropropane | | 0.147 | 0.138 | 0.137 | 0.140 |
| Trans-1,4-Dichloro 2-Butene | | | 0.070 | 0.067 | 0.076 |
| N-Propyl Benzene | | 5.976 | 6.029 | 6.344 | 6.100 |
| Bromobenzene | | 0.982 | 0.996 | 1.017 | 1.005 |
| Isopropyl Benzene | | 5.156 | 5.211 | 5.577 | 5.331 |
| 2-Chloro Toluene | | 3.863 | 3.812 | 4.030 | 3.814 |
| 4-Chloro Toluene | | 3.226 | 3.169 | 3.414 | 3.304 |
| T-Butyl Benzene | | 3.385 | 3.402 | 3.665 | 3.349 |
| 1,3,5-Trimethyl Benzene | | 3.900 | 3.941 | 4.215 | 4.014 |
| 1,2,4-Trimethylbenzene | | 3.717 | 3.732 | 4.008 | 3.803 |
| S-Butyl Benzene | | 5.004 | 5.124 | 5.374 | 4.977 |
| 4-Isopropyl Toluene | | 3.751 | 3.838 | 4.068 | 3.779 |
| 1,3-Dichlorobenzene | | 1.827 | 1.731 | 1.827 | 1.753 |
| 1,4-Dichlorobenzene | | 1.663 | 1.678 | 1.723 | 1.642 |
| N-Butyl Benzene | | 3.167 | 3.215 | 3.367 | 3.149 |
| 1,2-Dichlorobenzene | | 1.412 | 1.345 | 1.372 | 1.311 |
| 1,2-Dibromo 3-Chloropropane | | | 0.034 | 0.044 | 0.045 |
| 1,2,4-Trichlorobenzene | | | 0.524 | 0.613 | 0.612 |
| Hexachloro 1,3-Butadiene | | | 0.392 | 0.455 | 0.408 |
| Naphthalene | | | 0.709 | 0.940 | 0.898 |
| 1,2,3-Trichlorobenzene | | | 0.396 | 0.483 | 0.463 |
| Dichlorodifluoromethane | | 0.379 | 0.392 | 0.394 | 0.308 |
| Methyl tert butyl ether | 0.766 | 0.750 | 0.802 | 0.782 | 0.764 |

FORM VI VOA

QN31 : 00100

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF0.1: 0010304 RF0.2: 0020304 RF0.5: 0050304
RF1: 0100304 RF4: 0400304

| COMPOUND | RF0.1 | RF0.2 | RF0.5 | RF1 | RF4 |
|------------------------|-------|-------|-------|-------|-------|
| d4-1,2-Dichloroethane | 0.376 | 0.380 | 0.372 | 0.376 | 0.386 |
| d8-Toluene | 1.249 | 1.256 | 1.249 | 1.252 | 1.259 |
| 4-Bromofluorobenzene | 0.413 | 0.418 | 0.407 | 0.401 | 0.408 |
| d4-1,2-Dichlorobenzene | 0.792 | 0.797 | 0.785 | 0.792 | 0.774 |
| Dibromofluoromethane | 0.413 | 0.415 | 0.413 | 0.414 | 0.420 |

FORM VI VOA

QN31 : 00101

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF10: 1000304

RF20: 2000304

RF40: 4000304

RF60: 6000304

RF150: 15000304

| COMPOUND | RF10 | RF20 | RF40 | RF60 | RF150 |
|---------------------------------------|-------|-------|-------|-------|-------|
| Chloromethane | 0.450 | 0.393 | 0.393 | 0.446 | |
| Vinyl Chloride | 0.587 | 0.541 | 0.509 | 0.561 | |
| Bromomethane | 0.489 | 0.440 | 0.433 | 0.476 | |
| Chloroethane | 0.437 | 0.422 | 0.456 | 0.495 | |
| Trichlorofluoromethane | 0.796 | 0.775 | 0.753 | 0.793 | |
| Acrolein | 0.012 | 0.012 | 0.012 | 0.014 | 0.014 |
| 1,1,2-Trichloro-2,2,2-Trifluoroethane | 0.488 | 0.469 | 0.466 | 0.458 | |
| Acetone | 0.057 | 0.053 | 0.050 | 0.053 | 0.054 |
| 1,1-Dichloroethene | 0.581 | 0.580 | 0.565 | 0.564 | |
| Bromoethane | 0.351 | 0.342 | 0.326 | 0.347 | |
| Iodomethane | 0.678 | 0.654 | 0.608 | 0.626 | |
| Methylene Chloride | 0.492 | 0.467 | 0.448 | 0.476 | |
| Acrylonitrile | 0.059 | 0.059 | 0.056 | 0.061 | |
| Carbon Disulfide | 1.834 | 1.754 | 1.749 | 1.871 | |
| Trans-1,2-Dichloroethene | 0.590 | 0.586 | 0.569 | 0.598 | |
| Vinyl Acetate | 0.360 | 0.392 | 0.348 | 0.389 | |
| 1,1-Dichloroethane | 0.948 | 0.972 | 0.890 | 0.953 | |
| 2-Butanone | 0.060 | 0.061 | 0.056 | 0.062 | 0.062 |
| 2,2-Dichloropropane | 0.290 | 0.305 | 0.276 | 0.326 | |
| Cis-1,2-Dichloroethene | 0.607 | 0.631 | 0.588 | 0.625 | |
| Chloroform | 1.005 | 1.019 | 0.949 | 1.013 | |
| Bromochloromethane | 0.213 | 0.215 | 0.202 | 0.219 | |
| 1,1,1-Trichloroethane | 0.806 | 0.799 | 0.750 | 0.821 | |
| 1,1-Dichloropropene | 0.547 | 0.562 | 0.522 | 0.557 | |
| Carbon Tetrachloride | 0.408 | 0.418 | 0.388 | 0.420 | |
| 1,2-Dichloroethane | 0.318 | 0.333 | 0.294 | 0.322 | |
| Benzene | 1.506 | 1.561 | 1.449 | 1.513 | |
| Trichloroethene | 0.435 | 0.437 | 0.392 | 0.425 | |
| 1,2-Dichloropropane | 0.331 | 0.338 | 0.301 | 0.337 | |
| Bromodichloromethane | 0.415 | 0.430 | 0.391 | 0.429 | |
| Dibromomethane | 0.130 | 0.136 | 0.121 | 0.132 | |
| 2-Chloroethyl Vinyl Ether | 0.094 | 0.101 | 0.082 | 0.090 | |
| 4-Methyl-2-Pentanone | 0.052 | 0.051 | 0.050 | 0.055 | 0.053 |
| Cis 1,3-dichloropropene | 0.442 | 0.484 | 0.434 | 0.485 | |
| Toluene | 1.018 | 1.070 | 0.963 | 1.051 | |
| Trans 1,3-Dichloropropene | 0.329 | 0.363 | 0.328 | 0.370 | |
| 2-Hexanone | 0.086 | 0.088 | 0.082 | 0.090 | 0.081 |

FORM VI VOA

QN31 : 00102

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF10: 1000304

RF20: 2000304

RF40: 4000304

RF60: 6000304

RF150: 15000304

| COMPOUND | RF10 | RF20 | RF40 | RF60 | RF150 |
|-----------------------------|-------|-------|-------|-------|-------|
| 1,1,2-Trichloroethane | 0.196 | 0.204 | 0.183 | 0.198 | |
| 1,3-Dichloropropane | 0.390 | 0.413 | 0.365 | 0.405 | |
| Tetrachloroethene | 0.466 | 0.501 | 0.456 | 0.486 | |
| Chlorodibromomethane | 0.270 | 0.287 | 0.255 | 0.284 | |
| 1,2-Dibromoethane | 0.177 | 0.185 | 0.164 | 0.178 | |
| Chlorobenzene | 1.154 | 1.213 | 1.090 | 1.192 | |
| Ethyl Benzene | 2.198 | 2.288 | 2.052 | 2.154 | |
| 1,1,1,2-Tetrachloroethane | 0.349 | 0.355 | 0.325 | 0.352 | |
| m,p-xylene | 0.841 | 0.886 | 0.818 | 0.866 | |
| o-Xylene | 0.771 | 0.778 | 0.706 | 0.746 | |
| Styrene | 1.177 | 1.217 | 1.089 | 1.142 | |
| Bromoform | 0.312 | 0.372 | 0.342 | 0.401 | |
| 1,1,2,2-Tetrachloroethane | 0.452 | 0.477 | 0.438 | 0.488 | |
| 1,2,3-Trichloropropane | 0.140 | 0.150 | 0.139 | 0.152 | |
| Trans-1,4-Dichloro 2-Butene | 0.081 | 0.098 | 0.097 | 0.114 | |
| N-Propyl Benzene | 6.161 | 6.875 | 6.414 | 6.472 | |
| Bromobenzene | 0.988 | 1.126 | 1.044 | 1.155 | |
| Isopropyl Benzene | 5.324 | 5.891 | 5.539 | 5.865 | |
| 2-Chloro Toluene | 3.784 | 4.200 | 3.869 | 4.071 | |
| 4-Chloro Toluene | 3.322 | 3.712 | 3.401 | 3.564 | |
| T-Butyl Benzene | 3.484 | 3.565 | 3.263 | 3.271 | |
| 1,3,5-Trimethyl Benzene | 4.140 | 4.369 | 3.988 | 4.001 | |
| 1,2,4-Trimethylbenzene | 3.980 | 4.130 | 3.705 | 3.724 | |
| S-Butyl Benzene | 5.250 | 5.330 | 4.786 | 4.695 | |
| 4-Isopropyl Toluene | 4.108 | 4.088 | 3.664 | 3.624 | |
| 1,3-Dichlorobenzene | 1.814 | 1.913 | 1.721 | 1.827 | |
| 1,4-Dichlorobenzene | 1.719 | 1.806 | 1.619 | 1.738 | |
| N-Butyl Benzene | 3.558 | 3.514 | 3.212 | 3.200 | |
| 1,2-Dichlorobenzene | 1.357 | 1.366 | 1.225 | 1.383 | |
| 1,2-Dibromo 3-Chloropropane | 0.043 | 0.045 | 0.044 | 0.053 | |
| 1,2,4-Trichlorobenzene | 0.599 | 0.641 | 0.608 | 0.675 | |
| Hexachloro 1,3-Butadiene | 0.383 | 0.368 | 0.339 | 0.356 | |
| Naphthalene | 0.832 | 0.825 | 0.782 | 0.910 | |
| 1,2,3-Trichlorobenzene | 0.431 | 0.414 | 0.385 | 0.429 | |
| Dichlorodifluoromethane | 0.426 | 0.400 | 0.359 | 0.378 | |
| Methyl tert butyl ether | 0.811 | 0.785 | 0.968 | 0.802 | |

FORM VI VOA

QN31 : 00103

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF10: 1000304

RF20: 2000304

RF40: 4000304

RF60: 6000304

RF150: 15000304

| COMPOUND | RF10 | RF20 | RF40 | RF60 | RF150 |
|------------------------|-------|-------|-------|-------|-------|
| d4-1,2-Dichloroethane | 0.394 | 0.372 | 0.373 | 0.367 | 0.350 |
| d8-Toluene | 1.268 | 1.252 | 1.244 | 1.219 | 1.228 |
| 4-Bromofluorobenzene | 0.425 | 0.408 | 0.398 | 0.364 | 0.323 |
| d4-1,2-Dichlorobenzene | 0.771 | 0.750 | 0.756 | 0.786 | 0.788 |
| Dibromofluoromethane | 0.426 | 0.425 | 0.431 | 0.429 | 0.436 |

FORM VI VOA

QN31 : 00104

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

| COMPOUND | CURVE TYPE | AVE RF | %RSD OR R ² |
|---------------------------------------|------------|--------|------------------------|
| Chloromethane | AVRG | 0.431 | 10.9 |
| Vinyl Chloride | AVRG | 0.551 | 7.1 |
| Bromomethane | LINR | | 0.9963 |
| Chloroethane | AVRG | 0.431 | 9.3 |
| Trichlorofluoromethane | AVRG | 0.770 | 4.8 |
| Acrolein | AVRG | 0.013 | 7.6 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | AVRG | 0.467 | 5.7 |
| Acetone | AVRG | 0.058 | 19.6 |
| 1,1-Dichloroethene | AVRG | 0.575 | 4.8 |
| Bromoethane | AVRG | 0.338 | 3.9 |
| Iodomethane | AVRG | 0.678 | 16.6 |
| Methylene Chloride | AVRG | 0.516 | 17.4 |
| Acrylonitrile | AVRG | 0.057 | 7.2 |
| Carbon Disulfide | AVRG | 1.746 | 5.3 |
| Trans-1,2-Dichloroethene | AVRG | 0.569 | 4.5 |
| Vinyl Acetate | AVRG | 0.359 | 5.7 |
| 1,1-Dichloroethane | AVRG | 0.924 | 3.3 |
| 2-Butanone | AVRG | 0.059 | 4.8 |
| 2,2-Dichloropropane | AVRG | 0.298 | 7.6 |
| Cis-1,2-Dichloroethene | AVRG | 0.603 | 3.5 |
| Chloroform | AVRG | 0.972 | 4.0 |
| Bromochloromethane | AVRG | 0.204 | 5.2 |
| 1,1,1-Trichloroethane | AVRG | 0.772 | 4.2 |
| 1,1-Dichloropropene | AVRG | 0.530 | 4.3 |
| Carbon Tetrachloride | AVRG | 0.388 | 6.2 |
| 1,2-Dichloroethane | AVRG | 0.317 | 4.1 |
| Benzene | AVRG | 1.472 | 3.4 |
| Trichloroethene | AVRG | 0.389 | 10.1 |
| 1,2-Dichloropropane | AVRG | 0.315 | 5.4 |
| Bromodichloromethane | AVRG | 0.406 | 4.3 |
| Dibromomethane | AVRG | 0.127 | 4.1 |
| 2-Chloroethyl Vinyl Ether | AVRG | 0.090 | 7.5 |
| 4-Methyl-2-Pentanone | AVRG | 0.050 | 9.0 |
| Cis 1,3-dichloropropene | AVRG | 0.425 | 10.5 |
| Toluene | AVRG | 0.995 | 4.6 |
| Trans 1,3-Dichloropropene | AVRG | 0.312 | 13.2 |
| 2-Hexanone | AVRG | 0.083 | 6.2 |

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

FORM VI VOA

QN31 : 00105

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

| COMPOUND | CURVE TYPE | AVE RF | %RSD OR R^2 |
|-----------------------------|------------|--------|-------------|
| 1,1,2-Trichloroethane | AVRG | 0.190 | 4.0 |
| 1,3-Dichloropropane | AVRG | 0.386 | 4.5 |
| Tetrachloroethene | AVRG | 0.459 | 5.2 |
| Chlorodibromomethane | AVRG | 0.261 | 6.9 |
| 1,2-Dibromoethane | AVRG | 0.168 | 6.3 |
| Chlorobenzene | AVRG | 1.138 | 4.2 |
| Ethyl Benzene | AVRG | 2.137 | 3.9 |
| 1,1,1,2-Tetrachloroethane | AVRG | 0.334 | 4.7 |
| m,p-xylene | AVRG | 0.801 | 6.6 |
| o-Xylene | AVRG | 0.727 | 4.6 |
| Styrene | AVRG | 1.099 | 6.6 |
| Bromoform | AVRG | 0.329 | 12.0 |
| 1,1,2,2-Tetrachloroethane | AVRG | 0.469 | 4.0 |
| 1,2,3-Trichloropropane | AVRG | 0.143 | 4.1 |
| Trans-1,4-Dichloro 2-Butene | 2ORDR | | 0.9988 |
| N-Propyl Benzene | AVRG | 6.296 | 4.7 |
| Bromobenzene | AVRG | 1.039 | 6.3 |
| Isopropyl Benzene | AVRG | 5.487 | 5.1 |
| 2-Chloro Toluene | AVRG | 3.930 | 3.8 |
| 4-Chloro Toluene | AVRG | 3.389 | 5.2 |
| T-Butyl Benzene | AVRG | 3.423 | 4.1 |
| 1,3,5-Trimethyl Benzene | AVRG | 4.071 | 3.9 |
| 1,2,4-Trimethylbenzene | AVRG | 3.850 | 4.3 |
| S-Butyl Benzene | AVRG | 5.067 | 4.9 |
| 4-Isopropyl Toluene | AVRG | 3.865 | 5.1 |
| 1,3-Dichlorobenzene | AVRG | 1.802 | 3.5 |
| 1,4-Dichlorobenzene | AVRG | 1.699 | 3.6 |
| N-Butyl Benzene | AVRG | 3.298 | 4.9 |
| 1,2-Dichlorobenzene | AVRG | 1.346 | 4.2 |
| 1,2-Dibromo 3-Chloropropane | AVRG | 0.044 | 12.9 |
| 1,2,4-Trichlorobenzene | AVRG | 0.610 | 7.5 |
| Hexachloro 1,3-Butadiene | AVRG | 0.386 | 9.9 |
| Naphthalene | AVRG | 0.842 | 9.6 |
| 1,2,3-Trichlorobenzene | AVRG | 0.429 | 8.1 |
| Dichlorodifluoromethane | AVRG | 0.380 | 9.1 |
| Methyl tert butyl ether | AVRG | 0.803 | 8.1 |

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM VI VOA

QN31 : 00106

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Calibration Date: 03/04/10

| COMPOUND | CURVE TYPE | AVE RF | %RSD OR R ² |
|------------------------|---------------|-----------|---------------------------|
| d4-1,2-Dichloroethane | AVRG | 0.375 | 3.0 |
| d8-Toluene | AVRG | 1.248 | 1.1 |
| 4-Bromofluorobenzene | AVRG | 0.396 | 7.7 |
| d4-1,2-Dichlorobenzene | AVRG | 0.779 | 2.0 |
| Dibromofluoromethane | AVRG | 0.422 | 1.9 |

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

FORM VI VOA

QN31 : 00107

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt10.i/04MAR10a.b/0010304.d
- Level 2: /chem1/nt10.i/04MAR10a.b/0020304.d
- Level 3: /chem1/nt10.i/04MAR10a.b/0050304.d
- Level 4: /chem1/nt10.i/04MAR10a.b/0100304.d
- Level 5: /chem1/nt10.i/04MAR10a.b/0400304.d
- Level 6: /chem1/nt10.i/04MAR10a.b/1000304.d
- Level 7: /chem1/nt10.i/04MAR10a.b/2000304.d
- Level 8: /chem1/nt10.i/04MAR10a.b/4000304.d
- Level 9: /chem1/nt10.i/04MAR10a.b/6000304.d
- Level 10: /chem1/nt10.i/04MAR10a.b/15000304.d

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|---------------------------|---------|---------|---------|----------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 1 Dichlorodifluoromethane | ++++ | 0.37936 | 0.39156 | 0.39396 | 0.30850 | 0.42581 | | |
| | 0.39988 | 0.35863 | 0.37833 | ++++ | | | 0.37950 | 9.124 |
| 2 Chloromethane | ++++ | ++++ | 0.46328 | 0.50250 | 0.37140 | 0.44953 | | |
| | 0.39305 | 0.39292 | 0.44638 | ++++ | | | 0.43129 | 10.866 |
| 3 Vinyl Chloride | ++++ | 0.58115 | 0.57755 | 0.57193 | 0.47777 | 0.58699 | | |
| | 0.54106 | 0.50919 | 0.56094 | ++++ | | | 0.55082 | 7.083 |
| 4 Bromomethane | ++++ | ++++ | 0.53533 | 0.78370 | 0.43679 | 0.48904 | | |
| | 0.44058 | 0.43286 | 0.47633 | ++++ | | | 0.51352 | 24.266 |
| 5 Chloroethane | ++++ | 0.39934 | 0.45227 | 0.42465 | 0.36194 | 0.43733 | | |
| | 0.42156 | 0.45567 | 0.49544 | ++++ | | | 0.43103 | 9.262 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|---------------------------------|-----------------|--------------------|--------------------|--------------------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 6 Trichlorofluoromethane | ++++ 0.77482 | 0.74878 0.75321 | 0.80986 0.79279 | 0.78964 ++++ | 0.69480 | 0.79650 | 0.77005 | 4.811 |
| 7 Allyl Chloride | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ |
| 8 Acrolein | ++++ 0.01212 | ++++ 0.01254 | ++++ 0.01410 | 0.01277 0.01439 | 0.01185 | 0.01238 | 0.01288 | 7.630 |
| 9 112Trichloro122Trifluoroethan | ++++ 0.46873 | 0.45857 0.46608 | 0.49978 0.45821 | 0.48383 ++++ | 0.41238 | 0.48816 | 0.46697 | 5.689 |
| 10 Acetone | ++++ 0.05318 | ++++ 0.05030 | ++++ 0.05348 | 0.08345 0.05411 | 0.05488 | 0.05727 | 0.05810 | 19.573 |
| 11 1,1-Dichloroethene | ++++ 0.57975 | 0.57352 0.56524 | 0.61758 0.56430 | 0.59589 ++++ | 0.52158 | 0.58084 | 0.57484 | 4.819 |
| 12 Bromoethane | ++++ 0.34252 | 0.32182 0.32612 | 0.33533 0.34726 | 0.35749 ++++ | 0.32533 | 0.35114 | 0.33838 | 3.914 |
| 13 Iodomethane | ++++ 0.65376 | ++++ 0.60854 | 0.60748 0.62620 | 0.92743 ++++ | 0.64391 | 0.67775 | 0.67787 | 16.652 |
| 14 Methylene Chloride | ++++ 0.46747 | ++++ 0.44827 | 0.67801 0.47630 | 0.60578 ++++ | 0.44358 | 0.49171 | 0.51587 | 17.457 |

Analytical Resources, Inc.

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 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|-----------------------------|---------|---------|---------|----------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 15 Acrylonitrile | +++++ | +++++ | +++++ | 0.05092 | 0.05296 | 0.05879 | | |
| | 0.05947 | 0.05609 | 0.06146 | +++++ | | | 0.05662 | 7.173 |
| 16 Methyl tert butyl ether | 0.76597 | 0.75048 | 0.80169 | 0.78196 | 0.76371 | 0.81095 | | |
| | 0.78530 | 0.96842 | 0.80253 | +++++ | | | 0.80344 | 8.097 |
| 17 Carbon Disulfide | +++++ | 1.74526 | 1.76173 | 1.68684 | 1.56446 | 1.83351 | | |
| | 1.75432 | 1.74887 | 1.87099 | +++++ | | | 1.74575 | 5.306 |
| 18 Trans-1,2-Dichloroethene | +++++ | 0.54953 | 0.57855 | 0.56614 | 0.51851 | 0.58968 | | |
| | 0.58603 | 0.56899 | 0.59856 | +++++ | | | 0.56950 | 4.510 |
| 19 Methyl Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 20 Vinyl Acetate | +++++ | 0.35283 | 0.34796 | 0.33329 | 0.35272 | 0.35966 | | |
| | 0.39168 | 0.34780 | 0.38862 | +++++ | | | 0.35932 | 5.694 |
| 21 1,1-Dichloroethane | +++++ | 0.89715 | 0.91713 | 0.92422 | 0.89408 | 0.94791 | | |
| | 0.97251 | 0.88988 | 0.95340 | +++++ | | | 0.92453 | 3.325 |
| 22 2-Butanone | +++++ | +++++ | +++++ | 0.05590 | 0.05601 | 0.05951 | | |
| | 0.06119 | 0.05633 | 0.06168 | 0.06208 | | | 0.05896 | 4.767 |
| 23 2,2-Dichloropropane | +++++ | 0.33272 | 0.30198 | 0.26977 | 0.28486 | 0.28971 | | |
| | 0.30473 | 0.27577 | 0.32596 | +++++ | | | 0.29819 | 7.585 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|---------------------------|--------------------|--------------------|--------------------|-----------------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 24 Cis-1,2-Dichloroethene | ++++ 0.63093 | 0.61240 0.58840 | 0.61024 0.62543 | 0.58264 ++++ | 0.57053 | 0.60704 | 0.60345 | 3.499 |
| 26 Chloroform | ++++ 1.01926 | 0.91133 0.94919 | 0.97946 1.01333 | 0.95866 ++++ | 0.94037 | 1.00546 | 0.97213 | 3.983 |
| 27 Bromochloromethane | 0.18398 0.21517 | 0.20052 0.20169 | 0.20436 0.21936 | 0.20350 ++++ | 0.19733 | 0.21279 | 0.20430 | 5.193 |
| 29 1,1,1-Trichloroethane | ++++ 0.79930 | 0.76562 0.74972 | 0.74687 0.82110 | 0.75959 ++++ | 0.72975 | 0.80654 | 0.77231 | 4.226 |
| 30 1,1-Dichloropropene | ++++ 0.56235 | 0.50599 0.52207 | 0.52221 0.55701 | 0.51628 ++++ | 0.50326 | 0.54725 | 0.52955 | 4.327 |
| 31 Carbon Tetrachloride | ++++ 0.41847 | 0.37187 0.38802 | 0.36750 0.41996 | 0.35887 ++++ | 0.37539 | 0.40764 | 0.38846 | 6.170 |
| 33 1,2-Dichloroethane | ++++ 0.33274 | 0.32721 0.29374 | 0.32478 0.32159 | 0.31806 ++++ | 0.30286 | 0.31761 | 0.31732 | 4.083 |
| 34 Benzene | ++++ 1.56127 | 1.46822 1.44898 | 1.43171 1.51307 | 1.43317 ++++ | 1.41179 | 1.50653 | 1.47184 | 3.459 |
| 36 Trichloroethene | ++++ 0.43718 | 0.33156 0.39153 | 0.36157 0.42522 | 0.36726 ++++ | 0.36560 | 0.43462 | 0.38932 | 10.086 |

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|------------------------------|-----------------|--------------------|--------------------|--------------------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 37 1,2-Dichloropropane | ++++ 0.33852 | 0.29956 0.30087 | 0.30502 0.33676 | 0.30484 ++++ | 0.30443 | 0.33120 | 0.31515 | 5.419 |
| 38 Bromodichloromethane | ++++ 0.43013 | 0.40963 0.39122 | 0.38834 0.42906 | 0.39486 ++++ | 0.39018 | 0.41467 | 0.40601 | 4.273 |
| 39 Dibromomethane | ++++ 0.13584 | 0.12843 0.12083 | 0.12354 0.13254 | 0.12402 ++++ | 0.12306 | 0.12997 | 0.12728 | 4.131 |
| 40 2-Chloroethyl Vinyl Ether | ++++ 0.10131 | ++++ 0.08220 | ++++ 0.08969 | 0.08526 ++++ | 0.08938 | 0.09434 | 0.09036 | 7.498 |
| 41 4-Methyl-2-Pentanone | ++++ 0.05061 | ++++ 0.04970 | ++++ 0.05461 | 0.04566 0.05345 | 0.04184 | 0.05160 | 0.04964 | 9.038 |
| 42 Cis 1,3-dichloropropene | ++++ 0.48351 | 0.36902 0.43443 | 0.38156 0.48538 | 0.39057 ++++ | 0.41072 | 0.44170 | 0.42461 | 10.474 |
| 44 Toluene | ++++ 1.06983 | 0.94222 0.96344 | 0.97846 1.05137 | 0.97089 ++++ | 0.96335 | 1.01757 | 0.99464 | 4.642 |
| 45 Trans 1,3-Dichloropropene | ++++ 0.36291 | 0.27057 0.32826 | 0.26621 0.36970 | 0.27248 ++++ | 0.29997 | 0.32908 | 0.31240 | 13.251 |
| 46 2-Hexanone | ++++ 0.08801 | ++++ 0.08254 | ++++ 0.09058 | 0.08042 0.08089 | 0.07514 | 0.08593 | 0.08336 | 6.259 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|------------------------------|--------------------|--------------------|--------------------|-----------------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 47 1,1,2-Trichloroethane | ++++ 0.20358 | 0.18785 0.18282 | 0.18513 0.19825 | 0.18485 ++++ | 0.18553 | 0.19580 | 0.19048 | 4.023 |
| 48 1,3-Dichloropropane | ++++ 0.41337 | 0.39195 0.36489 | 0.36741 0.40490 | 0.37300 ++++ | 0.38037 | 0.39013 | 0.38575 | 4.544 |
| 49 Tetrachloroethene | ++++ 0.50120 | 0.44515 0.45650 | 0.44365 0.48645 | 0.43437 ++++ | 0.43961 | 0.46607 | 0.45912 | 5.207 |
| 50 Chlorodibromomethane | ++++ 0.28744 | 0.24443 0.25529 | 0.24690 0.28364 | 0.23976 ++++ | 0.25766 | 0.27023 | 0.26067 | 6.900 |
| 51 1,2-Dibromoethane | ++++ 0.18520 | 0.16125 0.16412 | 0.15674 0.17806 | 0.15717 ++++ | 0.16510 | 0.17710 | 0.16809 | 6.332 |
| 53 Chlorobenzene | ++++ 1.21336 | 1.15286 1.08959 | 1.10705 1.19153 | 1.08658 ++++ | 1.10665 | 1.15437 | 1.13775 | 4.197 |
| 54 Ethyl Benzene | ++++ 2.28755 | 2.18111 2.05157 | 2.09639 2.15379 | 2.07086 ++++ | 2.06022 | 2.19852 | 2.13750 | 3.870 |
| 55 1,1,1,2-Tetrachloroethane | ++++ 0.35549 | 0.31678 0.32528 | 0.32494 0.35195 | 0.32280 ++++ | 0.32243 | 0.34948 | 0.33364 | 4.721 |
| 56 m,p-xylene | 0.75160 0.88637 | 0.74859 0.81819 | 0.75406 0.86589 | 0.77173 ++++ | 0.77489 | 0.84139 | 0.80141 | 6.596 |

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|--------------------------------|---------|---------|---------|----------|---------|---------|---------|-----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 57 Cyclohexanone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 58 o-Xylene | +++++ | 0.70309 | 0.69192 | 0.71728 | 0.70196 | 0.77120 | 0.72701 | 4.602 |
| 59 Styrene | +++++ | 1.03458 | 1.01305 | 1.04653 | 1.07097 | 1.17704 | 1.09873 | 6.619 |
| 60 Isopropyl Benzene | +++++ | 5.15586 | 5.21088 | 5.57692 | 5.33093 | 5.32454 | 5.48681 | 5.126 |
| 61 Bromoform | +++++ | 0.29887 | 0.29796 | 0.29157 | 0.32029 | 0.31162 | 0.32946 | 11.959 |
| 62 1,1,2,2-Tetrachloroethane | +++++ | 0.47625 | 0.48720 | 0.48354 | 0.45283 | 0.45237 | 0.46940 | 4.029 |
| 64 1,2,3-Trichloropropane | +++++ | 0.14736 | 0.13803 | 0.13694 | 0.14010 | 0.14009 | 0.14287 | 4.105 |
| 65 Trans-1,4-Dichloro 2-Butene | +++++ | +++++ | 0.06968 | 0.06711 | 0.07607 | 0.08103 | 0.08622 | 20.157 <- |
| 66 N-Propyl Benzene | +++++ | 5.97579 | 6.02942 | 6.34368 | 6.09961 | 6.16129 | 6.29634 | 4.700 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|----------------------------|---------|---------|---------|----------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 67 Bromobenzene | +++++ | 0.98207 | 0.99578 | 1.01704 | 1.00537 | 0.98841 | | |
| | 1.12628 | 1.04361 | 1.15462 | +++++ | | | 1.03915 | 6.330 |
| 68 1,3,5-Trimethyl Benzene | +++++ | 3.89986 | 3.94143 | 4.21475 | 4.01420 | 4.14026 | | |
| | 4.36938 | 3.98811 | 4.00136 | +++++ | | | 4.07117 | 3.889 |
| 69 2-Chloro Toluene | +++++ | 3.86291 | 3.81241 | 4.02975 | 3.81451 | 3.78409 | | |
| | 4.19961 | 3.86911 | 4.07104 | +++++ | | | 3.93043 | 3.837 |
| 70 4-Chloro Toluene | +++++ | 3.22660 | 3.16890 | 3.41384 | 3.30456 | 3.32194 | | |
| | 3.71179 | 3.40070 | 3.56454 | +++++ | | | 3.38911 | 5.257 |
| 71 T-Butyl Benzene | +++++ | 3.38527 | 3.40204 | 3.66545 | 3.34914 | 3.48376 | | |
| | 3.56518 | 3.26344 | 3.27103 | +++++ | | | 3.42316 | 4.110 |
| 72 1,2,4-Trimethylbenzene | +++++ | 3.71740 | 3.73152 | 4.00827 | 3.80292 | 3.98034 | | |
| | 4.12966 | 3.70505 | 3.72406 | +++++ | | | 3.84990 | 4.290 |
| 73 S-Butyl Benzene | +++++ | 5.00411 | 5.12355 | 5.37430 | 4.97691 | 5.24952 | | |
| | 5.32962 | 4.78631 | 4.69509 | +++++ | | | 5.06743 | 4.886 |
| 74 4-Isopropyl Toluene | +++++ | 3.75135 | 3.83855 | 4.06782 | 3.77936 | 4.10780 | | |
| | 4.08787 | 3.66390 | 3.62434 | +++++ | | | 3.86512 | 5.072 |
| 75 1,3-Dichlorobenzene | +++++ | 1.82694 | 1.73096 | 1.82740 | 1.75304 | 1.81440 | | |
| | 1.91288 | 1.72121 | 1.82709 | +++++ | | | 1.80174 | 3.530 |

Analytical Resources, Inc.

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 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| 77 1,4-Dichlorobenzene | ++++ 1.80652 | 1.66272 1.61861 | 1.67815 1.73797 | 1.72342 ++++ | 1.64236 | 1.71936 | 1.69864 | 3.554 |
| 78 N-Butyl Benzene | ++++ 3.51352 | 3.16747 3.21182 | 3.21465 3.19985 | 3.36687 ++++ | 3.14881 | 3.55784 | 3.29760 | 4.890 |
| 80 1,2-Dichlorobenzene | ++++ 1.36622 | 1.41190 1.22548 | 1.34495 1.38298 | 1.37230 ++++ | 1.31110 | 1.35667 | 1.34645 | 4.226 |
| 81 1,2-Dibromo 3-Chloropropane | ++++ 0.04521 | ++++ 0.04359 | 0.03382 0.05332 | 0.04429 ++++ | 0.04502 | 0.04298 | 0.04403 | 12.924 |
| 82 1,2,4-Trichlorobenzene | ++++ 0.64142 | ++++ 0.60854 | 0.52438 0.67505 | 0.61287 ++++ | 0.61234 | 0.59950 | 0.61059 | 7.527 |
| 83 Hexachloro 1,3-Butadiene | ++++ 0.36760 | ++++ 0.33874 | 0.39165 0.35629 | 0.45514 ++++ | 0.40808 | 0.38265 | 0.38574 | 9.909 |
| 84 Naphthalene | ++++ 0.82538 | ++++ 0.78231 | 0.70939 0.91023 | 0.93997 ++++ | 0.89756 | 0.83204 | 0.84241 | 9.554 |
| 85 1,2,3-Trichlorobenzene | ++++ 0.41403 | ++++ 0.38498 | 0.39598 0.42870 | 0.48285 ++++ | 0.46306 | 0.43095 | 0.42865 | 8.146 |
| \$ 28 Dibromofluoromethane | 0.41338 0.42548 | 0.41492 0.43070 | 0.41333 0.42894 | 0.41452 0.43593 | 0.42010 | 0.42652 | 0.42238 | 1.946 |

Analytical Resources, Inc.

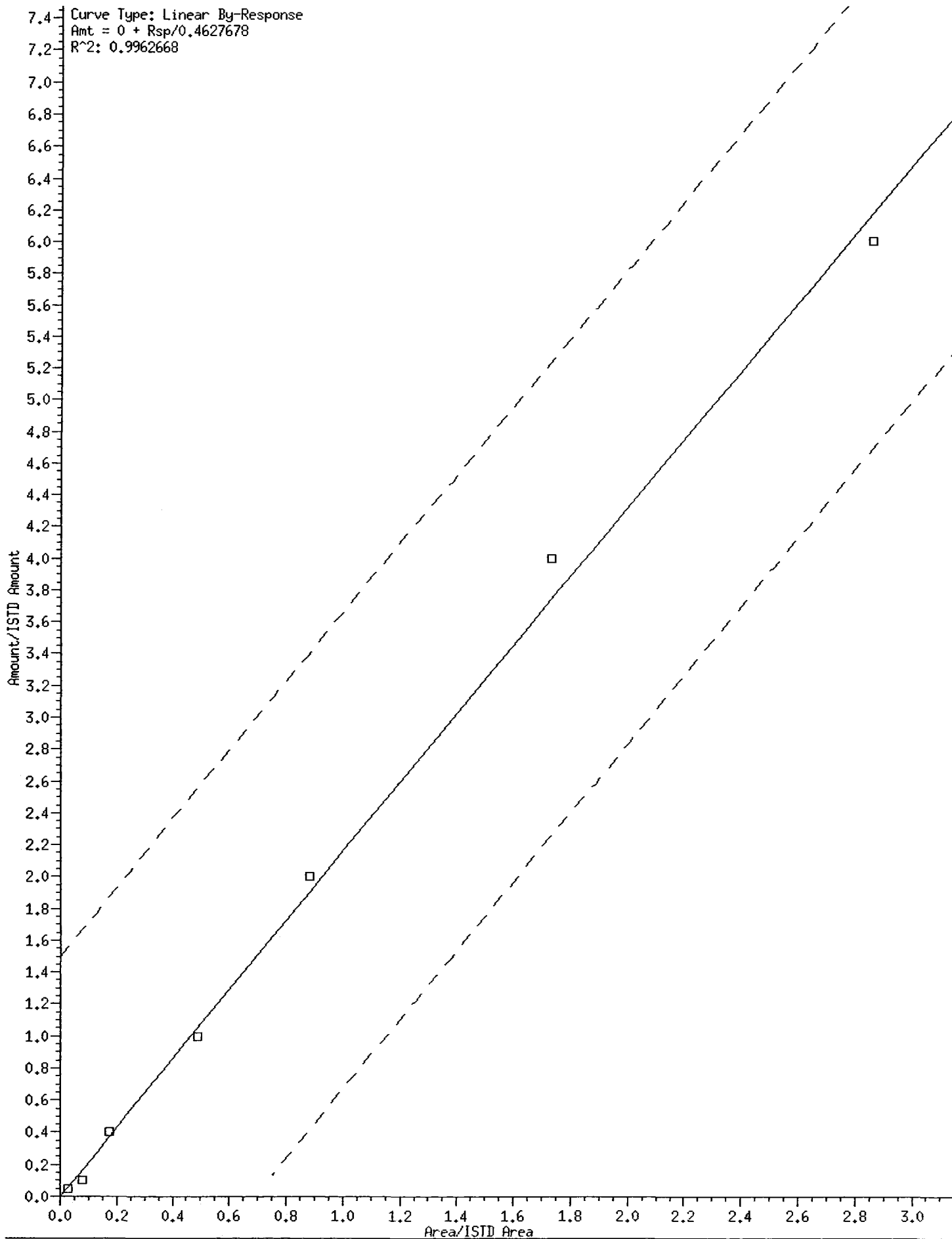
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul
 Curve Type : Average

| Compound | 0.10000 | 0.20000 | 0.50000 | 1.000 | 4.000 | 10.000 | RRF | % RSD |
|------------------------------|---------|---------|---------|----------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | 40.000 | 60.000 | 150.000 | | | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | | | | |
| \$ 32 d4-1,2-Dichloroethane | 0.37597 | 0.37951 | 0.37235 | 0.37621 | 0.38565 | 0.39358 | | |
| | 0.37245 | 0.37341 | 0.36711 | 0.35046 | | | 0.37467 | 3.031 |
| \$ 43 d8-Toluene | 1.24908 | 1.25559 | 1.24920 | 1.25225 | 1.25919 | 1.26753 | | |
| | 1.25251 | 1.24365 | 1.21905 | 1.22834 | | | 1.24764 | 1.148 |
| \$ 63 4-Bromofluorobenzene | 0.41271 | 0.41811 | 0.40730 | 0.40076 | 0.40761 | 0.42482 | | |
| | 0.40814 | 0.39812 | 0.36376 | 0.32265 | | | 0.39640 | 7.732 |
| \$ 79 d4-1,2-Dichlorobenzene | 0.79229 | 0.79684 | 0.78540 | 0.79189 | 0.77371 | 0.77077 | | |
| | 0.74996 | 0.75574 | 0.78574 | 0.78835 | | | 0.77907 | 2.059 |

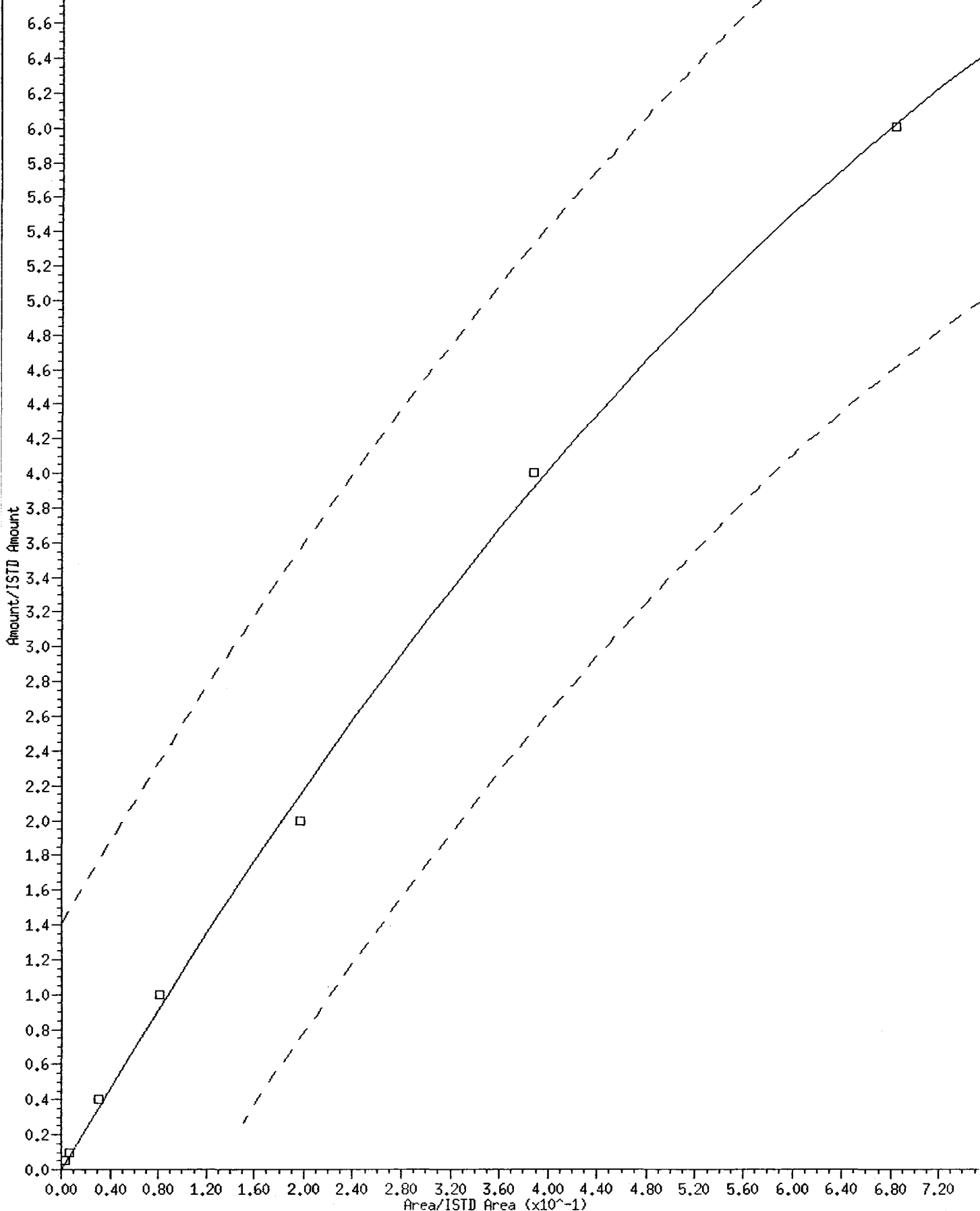
4 Bromomethane

Curve Type: Linear By-Response
Amt = 0 + Rsp/0.4627678
R²: 0.9962668



65 Trans-1,4-Dichloro 2-Butene

Curve Type: Quadratic By-Response
Amt = 0 + 11.7728*Rsp + -4.354423*Rsp^2
R^2: 0.9987780



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

Calibration File Names:

- Level 1: /chem1/nt10.i/04MAR10a.b/0010304.d
- Level 2: /chem1/nt10.i/04MAR10a.b/0020304.d
- Level 3: /chem1/nt10.i/04MAR10a.b/0050304.d
- Level 4: /chem1/nt10.i/04MAR10a.b/0100304.d
- Level 5: /chem1/nt10.i/04MAR10a.b/0400304.d
- Level 6: /chem1/nt10.i/04MAR10a.b/1000304.d
- Level 7: /chem1/nt10.i/04MAR10a.b/2000304.d
- Level 8: /chem1/nt10.i/04MAR10a.b/4000304.d
- Level 9: /chem1/nt10.i/04MAR10a.b/6000304.d
- Level 10: /chem1/nt10.i/04MAR10a.b/15000304.d

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | Coefficients | | %RSD or R ² | |
|---------------------------|-----------------|--------------------|--------------------|-----------------|---------|---------|---------|---------|---------|----------|----|----|-------|--------------|--|---------------------------|----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | m1 | m2 | | | | | |
| 1 Dichlorodifluoromethane | ++++ 0.39988 | 0.37936 0.35863 | 0.39156 0.37833 | 0.39396 ++++ | 0.30850 | 0.42581 | AVRG | 0.37950 | | | | | | | | 9.12412 | |
| 2 Chloromethane | ++++ 0.39305 | ++++ 0.39292 | 0.46328 0.44638 | 0.50250 ++++ | 0.37140 | 0.44953 | AVRG | 0.43129 | | | | | | | | | 10.86563 |
| 3 Vinyl Chloride | ++++ 0.54106 | 0.58115 0.50919 | 0.57755 0.56094 | 0.57193 ++++ | 0.47777 | 0.58699 | AVRG | 0.55082 | | | | | | | | | 7.08299 |

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | b | Coefficients | | RSD or R ² |
|---------------------------------|-----------------|--------------------|--------------------|--------------------|---------|---------|---------|---------|---------|----------|----------|----------|-------|-----------|--------------|----|--------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | | m1 | m2 | |
| 4 Bromomethane | ++++ 409341 | ++++ 756316 | 11234 1248482 | 33199 ++++ | 80685 | 210170 | | | | | | | LINR | 0.000e+00 | 0.46277 | | 0.99627 |
| 5 Chloroethane | ++++ 0.42156 | 0.39934 0.45567 | 0.45227 0.49544 | 0.42465 ++++ | 0.36194 | 0.43733 | | | | | | | AVRG | | 0.43103 | | 9.26167 |
| 6 Trichlorofluoromethane | ++++ 0.77482 | 0.74878 0.75321 | 0.80986 0.79279 | 0.78964 ++++ | 0.69480 | 0.79650 | | | | | | | AVRG | | 0.77005 | | 4.81072 |
| 7 Allyl Chloride | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ | ++++ | | | | | | | AVRG | | 0.000e+00 | | 0.000e+00 |
| 8 Acrolein | ++++ 0.01212 | ++++ 0.01254 | ++++ 0.01410 | 0.01277 0.01439 | 0.01185 | 0.01238 | | | | | | | AVRG | | 0.01288 | | 7.62970 |
| 9 112Trichloro122Trifluoroethan | ++++ 0.46673 | 0.45857 0.46608 | 0.49978 0.45821 | 0.48383 ++++ | 0.41238 | 0.48816 | | | | | | | AVRG | | 0.46657 | | 5.68946 |
| 10 Acetone | ++++ 0.05318 | ++++ 0.05030 | ++++ 0.05348 | 0.08345 0.05411 | 0.05488 | 0.05727 | | | | | | | AVRG | | 0.05810 | | 19.57340 |

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | Coefficients | | m2 | RSD or R ² |
|----------------------------|--------------------|--------------------|--------------------|-----------------|---------|---------|---------|---------|---------|----------|----------|----------|-------|--------------|----|----|--------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | b | m1 | | |
| 11 1,1-Dichloroethene | ++++ 0.57975 | 0.57352 0.56524 | 0.61758 0.56430 | 0.59589 ++++ | 0.52158 | 0.58084 | AVRG | 0.57484 | | | | | | | | | 4.81900 |
| 12 Bromoethane | ++++ 0.34252 | 0.32182 0.32612 | 0.33533 0.34726 | 0.35749 ++++ | 0.32533 | 0.35114 | AVRG | 0.33838 | | | | | | | | | 3.91423 |
| 13 Iodomethane | ++++ 0.65376 | ++++ 0.60854 | 0.60748 0.62620 | 0.92743 ++++ | 0.64391 | 0.67775 | AVRG | 0.67787 | | | | | | | | | 16.65183 |
| 14 Methylene Chloride | ++++ 0.46747 | ++++ 0.44827 | 0.67801 0.47630 | 0.60578 ++++ | 0.44358 | 0.49171 | AVRG | 0.51587 | | | | | | | | | 17.45692 |
| 15 Acrylonitrile | ++++ 0.05947 | ++++ 0.05609 | ++++ 0.06146 | 0.05092 ++++ | 0.05296 | 0.05879 | AVRG | 0.05662 | | | | | | | | | 7.17344 |
| 16 Methyl tert butyl ether | 0.76597 0.78530 | 0.75048 0.96842 | 0.80169 0.80253 | 0.78196 ++++ | 0.76371 | 0.81095 | AVRG | 0.80344 | | | | | | | | | 8.09691 |
| 17 Carbon Disulfide | ++++ 1.75432 | 1.74526 1.74887 | 1.76173 1.87099 | 1.68684 ++++ | 1.56446 | 1.83351 | AVRG | 1.74575 | | | | | | | | | 5.30615 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | b | Coefficients | | RSD or R^2 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|-----------|--------------|-----------|---------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 4 | Level 5 | | | Level 6 | m1 | |
| 18 Trans-1,2-Dichloroethene | ++++ 0.58603 | ++++ 0.54953 | ++++ 0.57855 | ++++ 0.56614 | ++++ 0.51851 | ++++ 0.58968 | ++++ 0.58968 | ++++ 0.58968 | ++++ 0.58968 | ++++ 0.58968 | ++++ 0.58968 | ++++ 0.58968 | AVRG | 0.56950 | | 4.50963 | |
| 19 Methyl Methacrylate | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | AVRG | 0.000e+00 | | 0.000e+00 | |
| 20 Vinyl Acetate | ++++ 0.39168 | ++++ 0.35283 | ++++ 0.34796 | ++++ 0.33329 | ++++ 0.35272 | ++++ 0.35966 | ++++ 0.35966 | ++++ 0.35966 | ++++ 0.35966 | ++++ 0.35966 | ++++ 0.35966 | ++++ 0.35966 | AVRG | 0.35932 | | 5.69385 | |
| 21 1,1-Dichloroethane | ++++ 0.97251 | ++++ 0.89715 | ++++ 0.91713 | ++++ 0.92422 | ++++ 0.89408 | ++++ 0.94791 | ++++ 0.94791 | ++++ 0.94791 | ++++ 0.94791 | ++++ 0.94791 | ++++ 0.94791 | ++++ 0.94791 | AVRG | 0.92453 | | 3.32474 | |
| 22 2-Butanone | ++++ 0.06119 | ++++ 0.05633 | ++++ 0.06168 | ++++ 0.06208 | ++++ 0.05601 | ++++ 0.05951 | ++++ 0.05951 | ++++ 0.05951 | ++++ 0.05951 | ++++ 0.05951 | ++++ 0.05951 | ++++ 0.05951 | AVRG | 0.05896 | | 4.76747 | |
| 23 2,2-Dichloropropane | ++++ 0.30473 | ++++ 0.33272 | ++++ 0.30198 | ++++ 0.26977 | ++++ 0.28486 | ++++ 0.28971 | ++++ 0.28971 | ++++ 0.28971 | ++++ 0.28971 | ++++ 0.28971 | ++++ 0.28971 | ++++ 0.28971 | AVRG | 0.29819 | | 7.58474 | |
| 24 Cis-1,2-Dichloroethene | ++++ 0.63093 | ++++ 0.61240 | ++++ 0.61024 | ++++ 0.58264 | ++++ 0.57053 | ++++ 0.60704 | ++++ 0.60704 | ++++ 0.60704 | ++++ 0.60704 | ++++ 0.60704 | ++++ 0.60704 | ++++ 0.60704 | AVRG | 0.60345 | | 3.49882 | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | Coefficients | | %RSD or R ² |
|------------------------------|-----------------|--------------------|--------------------|--------------------|---------|---------|---------|---------|---------|----------|----------|----------|-------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | b | m1 | |
| 36 Trichloroethene | ++++ 0.43718 | 0.33156 0.39153 | 0.36157 0.42522 | 0.36726 ++++ | 0.36560 | 0.43462 | | | | | | | AVRG | 0.38932 | | 10.08573 |
| 37 1,2-Dichloropropane | ++++ 0.33852 | 0.29956 0.30087 | 0.30502 0.33676 | 0.30484 ++++ | 0.30443 | 0.33120 | | | | | | | AVRG | 0.31515 | | 5.41895 |
| 38 Bromodichloromethane | ++++ 0.43013 | 0.40963 0.39122 | 0.38834 0.42906 | 0.39486 ++++ | 0.39018 | 0.41467 | | | | | | | AVRG | 0.40601 | | 4.27332 |
| 39 Dibromomethane | ++++ 0.13584 | 0.12843 0.12083 | 0.12354 0.13254 | 0.12402 ++++ | 0.12306 | 0.12997 | | | | | | | AVRG | 0.12728 | | 4.13131 |
| 40 2-Chloroethyl Vinyl Ether | ++++ 0.10131 | ++++ 0.08220 | ++++ 0.08969 | 0.08526 ++++ | 0.08938 | 0.09434 | | | | | | | AVRG | 0.09036 | | 7.49771 |
| 41 4-Methyl-2-Pentanone | ++++ 0.05061 | ++++ 0.04970 | ++++ 0.05461 | 0.04566 0.05345 | 0.04184 | 0.05160 | | | | | | | AVRG | 0.04964 | | 9.03796 |
| 42 Cis 1,3-dichloropropene | ++++ 0.48351 | 0.36902 0.43443 | 0.38156 0.48538 | 0.39057 ++++ | 0.41072 | 0.44170 | | | | | | | AVRG | 0.42461 | | 10.47410 |

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 Level 1 | 0.2000 Level 2 | 0.5000 Level 3 | 1 Level 4 | 4 Level 5 | 10 Level 6 | Curve | b | Coefficients m1 | m2 | %RSD or R^2 |
|------------------------------|-------------------|--------------------|--------------------|--------------------|--------------|---------------|-------|---|--------------------|----|----------------|
| 44 Toluene | ++++ 1.06983 | 0.94222 0.96344 | 0.97846 1.05137 | 0.97089 ++++ | 0.96335 | 1.01757 | AVRG | | 0.99464 | | 4.64221 |
| 45 Trans 1,3-Dichloropropene | ++++ 0.36291 | 0.27057 0.32826 | 0.26621 0.36970 | 0.27248 ++++ | 0.29997 | 0.32908 | AVRG | | 0.31240 | | 13.25126 |
| 46 2-Hexanone | ++++ 0.08801 | ++++ 0.08254 | ++++ 0.09058 | 0.08042 0.08089 | 0.07514 | 0.08593 | AVRG | | 0.08336 | | 6.25870 |
| 47 1,1,2-Trichloroethane | ++++ 0.20358 | 0.18785 0.18282 | 0.18513 0.19825 | 0.18485 ++++ | 0.18553 | 0.19580 | AVRG | | 0.19048 | | 4.02254 |
| 48 1,3-Dichloropropane | ++++ 0.41337 | 0.39195 0.36489 | 0.36741 0.40490 | 0.37300 ++++ | 0.38037 | 0.39013 | AVRG | | 0.38575 | | 4.54350 |
| 49 Tetrachloroethene | ++++ 0.50120 | 0.44515 0.45650 | 0.44365 0.48645 | 0.43437 ++++ | 0.43961 | 0.46607 | AVRG | | 0.45912 | | 5.20691 |
| 50 Chlorodibromomethane | ++++ 0.28744 | 0.24443 0.25529 | 0.24690 0.28364 | 0.23976 ++++ | 0.25766 | 0.27023 | AVRG | | 0.26067 | | 6.89980 |

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | Coefficients | | | | | | | | | | RSD or R ² | |
|------------------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------------|-------|---|-----------|----|--------------------------|-----------|
| | 0.1000 Level 1 | 0.2000 Level 2 | 0.5000 Level 3 | 1 Level 4 | 4 Level 5 | 10 Level 6 | Curve | b | m1 | m2 | | |
| 51 1,2-Dibromoethane | ++++ 0.18520 | 0.16125 0.16412 | 0.15674 0.17806 | 0.15717 ++++ | 0.16510 | 0.17710 | AVRG | | 0.16809 | | | 6.33226 |
| 53 Chlorobenzene | ++++ 1.21336 | 1.15286 1.08959 | 1.10705 1.19153 | 1.08658 ++++ | 1.10665 | 1.15437 | AVRG | | 1.13775 | | | 4.19698 |
| 54 Ethyl Benzene | ++++ 2.28755 | 2.18111 2.05157 | 2.09639 2.15379 | 2.07086 ++++ | 2.06022 | 2.19852 | AVRG | | 2.13750 | | | 3.86976 |
| 55 1,1,1,2-Tetrachloroethane | ++++ 0.35549 | 0.31678 0.32528 | 0.32494 0.35195 | 0.32280 ++++ | 0.32243 | 0.34948 | AVRG | | 0.33364 | | | 4.72092 |
| 56 m,p-xylene | 0.75160 0.88637 | 0.74859 0.81819 | 0.75406 0.86589 | 0.77173 ++++ | 0.77489 | 0.84139 | AVRG | | 0.80141 | | | 6.59564 |
| 57 Cyclohexanone | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | | 0.000e+00 |
| 58 o-Xylene | ++++ 0.77757 | 0.70309 0.70653 | 0.69192 0.74655 | 0.71728 ++++ | 0.70196 | 0.77120 | AVRG | | 0.72701 | | | 4.60202 |

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | Coefficients | | %RSD or R^2 |
|--------------------------------|-----------------|--------------------|--------------------|-----------------|---------|---------|---------|----------|-----------|----------|----------|----------|-------|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | m1 | m2 | |
| 59 Styrene | ++++ 1.21708 | 1.03458 1.08901 | 1.01305 1.14154 | 1.04653 ++++ | 1.07097 | 1.17704 | AVRG | 1.09873 | | | | | | | | 6.61861 |
| 60 Isopropyl Benzene | ++++ 5.89062 | 5.15586 5.53922 | 5.21088 5.86550 | 5.57692 ++++ | 5.33093 | 5.32454 | AVRG | 5.48681 | | | | | | | | 5.12557 |
| 61 Bromoform | ++++ 0.37178 | 0.29887 0.34248 | 0.29796 0.40115 | 0.29157 ++++ | 0.32029 | 0.31162 | AVRG | 0.32946 | | | | | | | | 11.95896 |
| 62 1,1,2,2-Tetrachloroethane | ++++ 0.47722 | 0.47625 0.43811 | 0.48720 0.48771 | 0.48354 ++++ | 0.45283 | 0.45237 | AVRG | 0.46940 | | | | | | | | 4.02922 |
| 64 1,2,3-Trichloropropane | ++++ 0.14985 | 0.14736 0.13874 | 0.13803 0.15185 | 0.13694 ++++ | 0.14010 | 0.14009 | AVRG | 0.14287 | | | | | | | | 4.10460 |
| 65 Trans-1,4-Dichloro 2-Butene | ++++ 46857 | ++++ 84309 | 789 135481 | 1456 ++++ | 7171 | 20418 | QUAD | 11.77280 | 0.000e+00 | -4.35442 | | | | | | 0.99878 |
| 66 N-Propyl Benzene | ++++ 6.87530 | 5.97579 6.41359 | 6.02942 6.47207 | 6.34368 ++++ | 6.09961 | 6.16129 | AVRG | 6.29634 | | | | | | | | 4.69997 |

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | b | Coefficients | | RSD or R ² |
|----------------------------|-----------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------|----------|----------|----------|-------|---|--------------|----|--------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | | m1 | m2 | |
| 67 Bromobenzene | ++++ 1.12628 | 0.98207 1.04361 | 0.99578 1.15462 | 1.01704 ++++ | 1.00537 AVRG | 0.98841 AVRG | 1.03915 AVRG | 6.33005 AVRG | | | | | | | | | |
| 68 1,3,5-Trimethyl Benzene | ++++ 4.36938 | 3.89986 3.98811 | 3.94143 4.00136 | 4.21475 ++++ | 4.01420 AVRG | 4.14026 AVRG | 4.07117 AVRG | 3.88945 AVRG | | | | | | | | | |
| 69 2-Chloro Toluene | ++++ 4.19961 | 3.86291 3.86911 | 3.81241 4.07104 | 4.02975 ++++ | 3.81451 AVRG | 3.78409 AVRG | 3.93043 AVRG | 3.83682 AVRG | | | | | | | | | |
| 70 4-Chloro Toluene | ++++ 3.71179 | 3.22660 3.40070 | 3.16890 3.56454 | 3.41384 ++++ | 3.30456 AVRG | 3.32194 AVRG | 3.38911 AVRG | 5.25708 AVRG | | | | | | | | | |
| 71 T-Butyl Benzene | ++++ 3.56518 | 3.38527 3.26344 | 3.40204 3.27103 | 3.66545 ++++ | 3.34914 AVRG | 3.48376 AVRG | 3.42316 AVRG | 4.11003 AVRG | | | | | | | | | |
| 72 1,2,4-Trimethylbenzene | ++++ 4.12966 | 3.71740 3.70505 | 3.73152 3.72406 | 4.00827 ++++ | 3.80292 AVRG | 3.98034 AVRG | 3.84990 AVRG | 4.29008 AVRG | | | | | | | | | |
| 73 S-Butyl Benzene | ++++ 5.32962 | 5.00411 4.78631 | 5.12355 4.69509 | 5.37430 ++++ | 4.97691 AVRG | 5.24952 AVRG | 5.06743 AVRG | 4.88584 AVRG | | | | | | | | | |

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | b | Coefficients | | RSD or R ² |
|--------------------------------|-----------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|---------|---------|----------|----------|----------|-------|---|--------------|----|--------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | | m1 | m2 | |
| 74 4-Isopropyl Toluene | ++++ 4.08787 | 3.75135 3.66390 | 3.83855 3.62434 | 4.06782 ++++ | 3.77936 ++++ | 4.10780 AVRG | 4.10780 AVRG | 3.86512 | | | | | | | | | 5.07243 |
| 75 1,3-Dichlorobenzene | ++++ 1.91288 | 1.82694 1.72121 | 1.73096 1.82709 | 1.82740 ++++ | 1.75304 ++++ | 1.81440 AVRG | 1.81440 AVRG | 1.80174 | | | | | | | | | 3.53000 |
| 77 1,4-Dichlorobenzene | ++++ 1.80652 | 1.66272 1.61861 | 1.67815 1.73797 | 1.72342 ++++ | 1.64236 ++++ | 1.71936 AVRG | 1.71936 AVRG | 1.69864 | | | | | | | | | 3.55388 |
| 78 N-Butyl Benzene | ++++ 3.51352 | 3.16747 3.21182 | 3.21465 3.19985 | 3.36687 ++++ | 3.14881 ++++ | 3.55784 AVRG | 3.55784 AVRG | 3.29760 | | | | | | | | | 4.88998 |
| 80 1,2-Dichlorobenzene | ++++ 1.36622 | 1.41190 1.22548 | 1.34495 1.38298 | 1.37230 ++++ | 1.31110 ++++ | 1.35667 AVRG | 1.35667 AVRG | 1.34645 | | | | | | | | | 4.22629 |
| 81 1,2-Dibromo 3-Chloropropane | ++++ 0.04521 | ++++ 0.04359 | 0.03382 0.05332 | 0.04429 ++++ | 0.04502 ++++ | 0.04298 AVRG | 0.04298 AVRG | 0.04403 | | | | | | | | | 12.92372 |
| 82 1,2,4-Trichlorobenzene | ++++ 0.64142 | ++++ 0.60854 | 0.52438 0.67505 | 0.61287 ++++ | 0.61234 ++++ | 0.59950 AVRG | 0.59950 AVRG | 0.61059 | | | | | | | | | 7.52687 |

031001 00130

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | Coefficients | | | | | | | | | | m2 | RSD or R ² |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------|---------------|-------|---|---------|--|----|--------------------------|
| | 0.1000 Level 1 | 0.2000 Level 2 | 0.5000 Level 3 | 1 Level 4 | 4 Level 5 | 10 Level 6 | Curve | b | m1 | | | |
| 83 Hexachloro 1,3-Butadiene | ++++ 0.36760 | ++++ 0.33874 | 0.39165 0.35629 | 0.45514 ++++ | 0.40808 | 0.38265 | AVRG | | 0.38574 | | | 9.90857 |
| 84 Naphthalene | ++++ 0.82538 | ++++ 0.78231 | 0.70939 0.91023 | 0.93997 ++++ | 0.89756 | 0.83204 | AVRG | | 0.84241 | | | 9.55367 |
| 85 1,2,3-Trichlorobenzene | ++++ 0.41403 | ++++ 0.38498 | 0.39598 0.42870 | 0.48285 ++++ | 0.46306 | 0.43095 | AVRG | | 0.42865 | | | 8.14557 |
| \$ 28 Dibromofluoromethane | 0.41338 0.42548 | 0.41492 0.43076 | 0.41333 0.42894 | 0.41452 0.43593 | 0.42010 | 0.42652 | AVRG | | 0.42238 | | | 1.94614 |
| \$ 32 d4-1,2-Dichloroethane | 0.37597 0.37245 | 0.37951 0.37341 | 0.37235 0.36711 | 0.37621 0.35046 | 0.38565 | 0.39358 | AVRG | | 0.37467 | | | 3.03115 |
| \$ 43 d8-Toluene | 1.24908 1.25251 | 1.25559 1.24365 | 1.24920 1.21905 | 1.25225 1.22834 | 1.25919 | 1.26753 | AVRG | | 1.24764 | | | 1.14844 |
| \$ 63 4-Bromofluorobenzene | 0.41271 0.40814 | 0.41811 0.39812 | 0.40730 0.36376 | 0.40076 0.32265 | 0.40761 | 0.42482 | AVRG | | 0.39640 | | | 7.73201 |

09031 00431

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Compound | 0.1000 | | 0.2000 | | 0.5000 | | 1 | | 4 | | 10 | | Curve | Coefficients | | %RSD or R^2 |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|-------|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | b | m1 | |
| 79 d4-1,2-Dichlorobenzene | 0.79229 | 0.79684 | 0.78540 | 0.79189 | 0.77371 | 0.77077 | 0.79189 | 0.78540 | 0.77371 | 0.77077 | 0.77077 | 0.77077 | AVRG | 0.77907 | | 2.05857 |
| | 0.74996 | 0.75574 | 0.78574 | 0.78835 | | | | | | | | | | | | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 18:51
 End Cal Date : 04-MAR-2010 23:18
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Cal Date : 11-Mar-2010 10:41 paul

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/ml | Response |
| Linear | Amt = b + Rsp/ml | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/0010304.d
 Lab Smp Id: IC001 Client Smp ID: vstd1
 Inj Date : 04-MAR-2010 18:51
 Operator : ar Inst ID: nt10.i
 Smp Info : IC001,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 18:51 Cal File: 0010304.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|--------------------|-------------------|
| | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 4 Bromomethane | 94 | 1.892 | 1.881 | (0.359) | 2548 | 0.10000 | 0.1202 |
| 8 Acrolein | 56 | Compound Not Detected. | | | | | |
| 10 Acetone | 43 | Compound Not Detected. | | | | | |
| 14 Methylene Chloride | 84 | 3.246 | 3.246 | (0.616) | 6393 | 0.10000 | 0.3058 |
| 15 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 16 Methyl tert butyl ether | 73 | 3.554 | 3.548 | (0.675) | 6599 | 0.20000 | 0.2016(M) |
| 20 Vinyl Acetate | 43 | Compound Not Detected. | | | | | |
| 22 2-Butanone | 72 | 5.272 | 4.988 | (1.001) | 549 | 0.10000 | 0.2162(T) |
| 23 2,2-Dichloropropane | 77 | 4.589 | 4.584 | (0.871) | 1427 | 0.10000 | 0.1111(T) |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.272 | (1.000) | 430763 | 10.0000 | |
| 27 Bromochloromethane | 128 | 4.658 | 4.663 | (0.884) | 1585 | 0.20000 | 0.1603 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 178069 | 10.0000 | 9.787 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 161953 | 10.0000 | 10.035 |
| 33 1,2-Dichloroethane | 62 | 5.654 | 5.341 | (0.999) | 23119 | 0.10000 | 0.6941(T) |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 10432 | 0.10000 | 0.1028 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.659 | (1.000) | 689573 | 10.0000 | |

| Compounds | QUANT SIG | | AMOUNTS | | | | | | |
|---------------------------------------|-----------|--|------------------------|--------|---------|----------|--------------------|-------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) | |
| ===== 40 2-Chloroethyl Vinyl Ether | 63 | | 6.627 | 6.468 | (1.171) | 812 | 0.10000 | 0.1303(T) | |
| 41 4-Methyl-2-Pentanone | 58 | | 6.632 | 6.946 | (1.172) | 6561 | 0.10000 | 1.917(T) | |
| \$ 43 d8-Toluene | 98 | | 6.632 | 6.633 | (1.172) | 861334 | 10.0000 | 10.012 | |
| 48 1,3-Dichloropropane | 76 | | 7.270 | 7.264 | (0.942) | 2317 | 0.10000 | 0.1001 | |
| * 52 d5-Chlorobenzene | 117 | | 7.719 | 7.720 | (1.000) | 600050 | 10.0000 | | |
| 54 Ethyl Benzene | 91 | | 7.850 | 7.748 | (1.017) | 17937 | 0.10000 | 0.1398 | |
| 56 m,p-xylene | 106 | | 7.850 | 7.850 | (1.017) | 9020 | 0.20000 | 0.1876 | |
| \$ 63 4-Bromofluorobenzene | 95 | | 8.584 | 8.585 | (1.112) | 247647 | 10.0000 | 10.412 | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | 8.823 | 8.869 | (0.938) | 188 | 0.10000 | 0.1010 | |
| 66 N-Propyl Benzene | 91 | | Compound Not Detected. | | | | | | |
| 68 1,3,5-Trimethyl Benzene | 105 | | Compound Not Detected. | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | | 9.404 | 9.410 | (1.000) | 215934 | 10.0000 | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | | 9.734 | 9.734 | (1.035) | 171083 | 10.0000 | 10.170 | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | Compound Not Detected. | | | | | | |
| 84 Naphthalene | 128 | | 11.140 | 11.140 | (1.185) | 1848 | 0.10000 | 0.1016(T) | |

QC Flag Legend

- T - Target compound detected outside RT window.
- M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt10.i | Calibration Date: 04-MAR-2010 |
| Lab File ID: 0010304.d | Calibration Time: 22:19 |
| Lab Smp Id: IC001 | Client Smp ID: vstd1 |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: ar | |
| Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m | |
| Misc Info: 09- | |

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

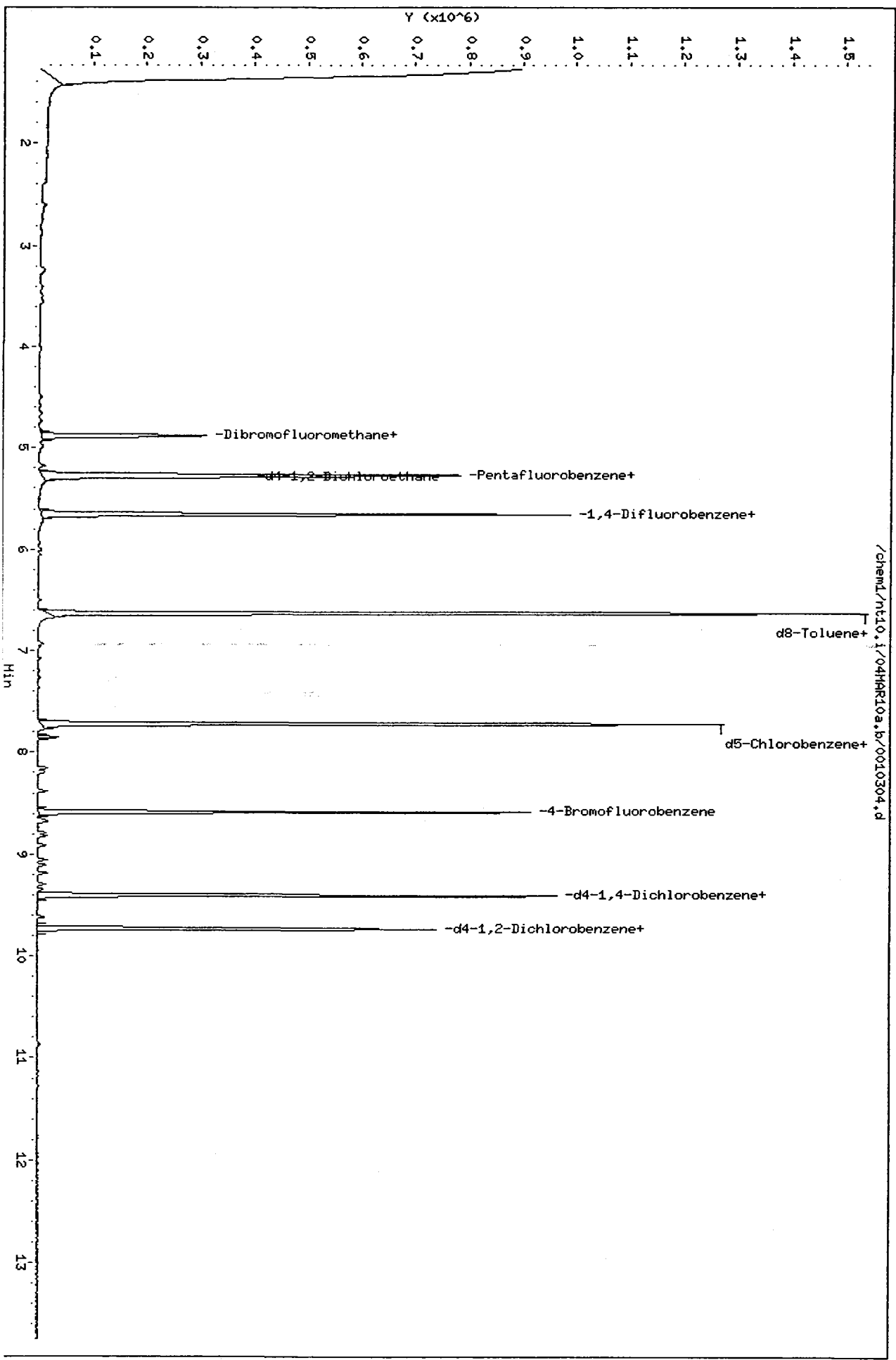
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 430763 | -6.72 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 689573 | -7.58 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 600050 | -9.86 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 215934 | -8.37 |

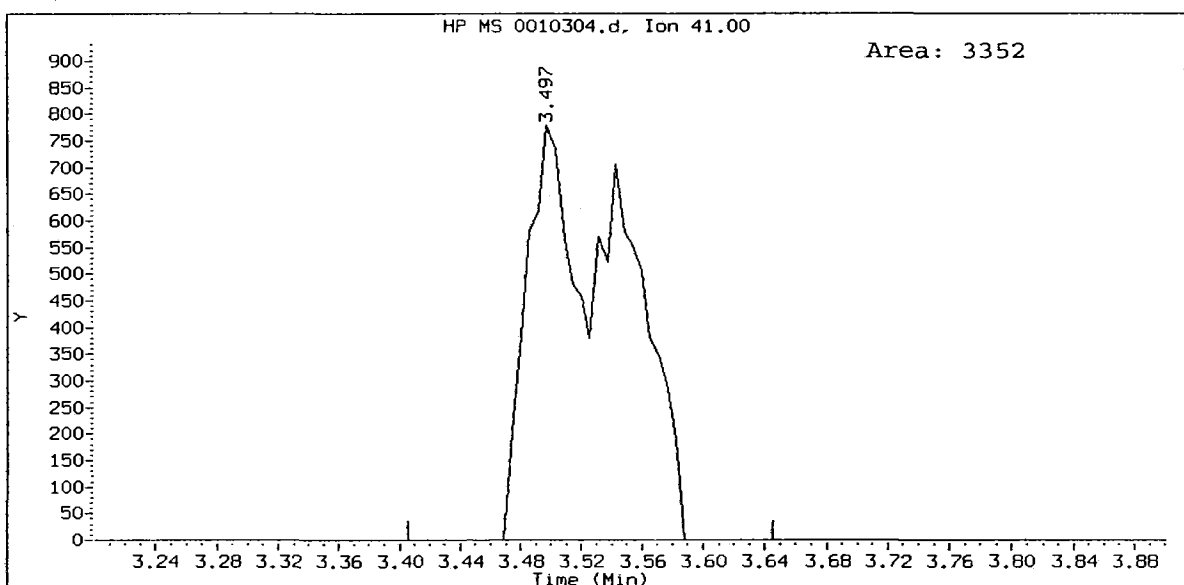
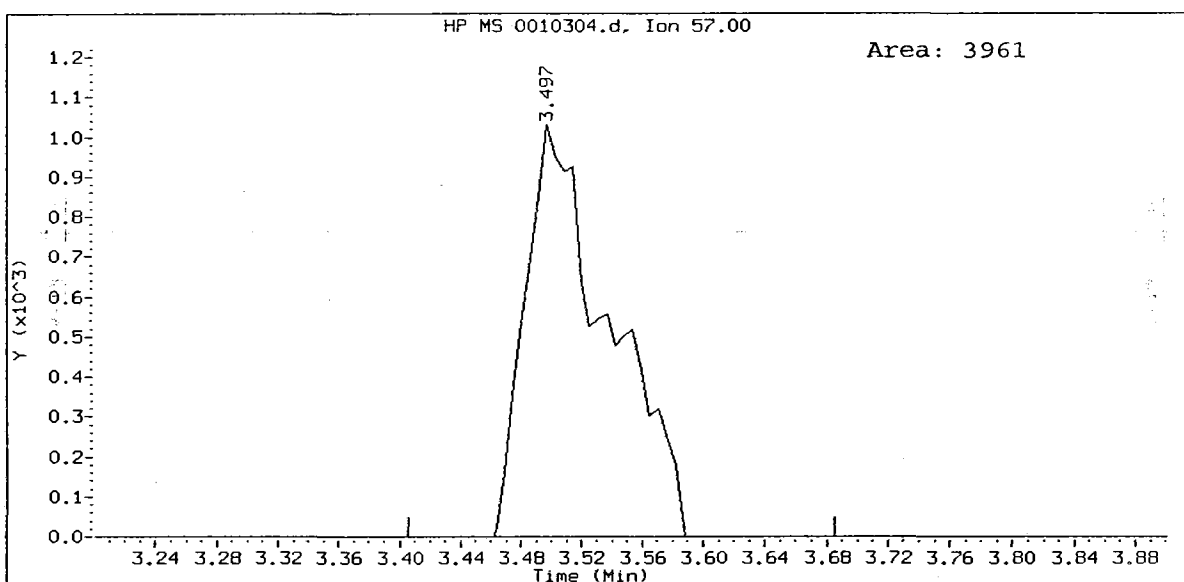
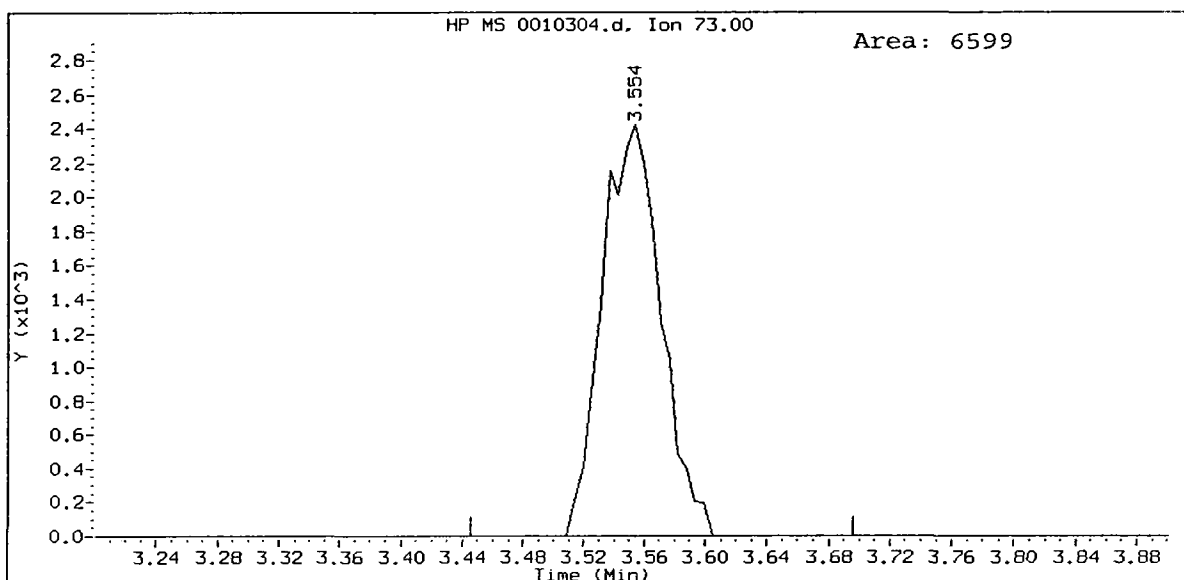
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10a.b/0010304.d
Date: 04-MAR-2010 18:51
Client ID: vstd1
Sample Info: IC001,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18





Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/0020304.d
 Lab Smp Id: IC002 Client Smp ID: vstd2
 Inj Date : 04-MAR-2010 19:20
 Operator : ar Inst ID: nt10.i
 Smp Info : IC002,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 19:20 Cal File: 0020304.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | | |
|----------------------------------|-----------|------------------------|--------|---------|----------|--------------------|-------------------|--|
| | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) | |
| 1 Dichlorodifluoromethane | 85 | 1.368 | 1.380 | (0.260) | 3132 | 0.20000 | 0.2005 (M) | |
| 2 Chloromethane | 50 | 1.533 | 1.539 | (0.291) | 3228 | 0.20000 | 0.1949 (T) | |
| 3 Vinyl Chloride | 62 | 1.596 | 1.602 | (0.303) | 4798 | 0.20000 | 0.2110 | |
| 4 Bromomethane | 94 | 1.875 | 1.881 | (0.356) | 5027 | 0.20000 | 0.2475 (M) | |
| 5 Chloroethane | 64 | 1.994 | 2.000 | (0.379) | 3297 | 0.20000 | 0.1853 | |
| 6 Trichlorofluoromethane | 101 | 2.114 | 2.120 | (0.401) | 6182 | 0.20000 | 0.1945 | |
| 8 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | 2.660 | 2.660 | (0.505) | 3786 | 0.20000 | 0.1964 | |
| 10 Acetone | 43 | 3.337 | 3.326 | (0.634) | 1104 | 0.20000 | 0.4769 (M) | |
| 11 1,1-Dichloroethene | 96 | 2.592 | 2.603 | (0.492) | 4735 | 0.20000 | 0.1996 (M) | |
| 12 Bromoethane | 108 | 2.871 | 2.876 | (0.545) | 2657 | 0.20000 | 0.1988 | |
| 13 Iodomethane | 142 | 2.740 | 2.740 | (0.520) | 4843 | 0.20000 | 0.1763 | |
| 14 Methylene Chloride | 84 | 3.246 | 3.246 | (0.616) | 7766 | 0.20000 | 0.3876 (M) | |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.674) | 12392 | 0.40000 | 0.3955 (M) | |
| 17 Carbon Disulfide | 76 | 2.603 | 2.609 | (0.494) | 14409 | 0.20000 | 0.1999 | |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.411 | (0.647) | 4537 | 0.20000 | 0.2008 | |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 20 Vinyl Acetate | 43 | 4.276 | 4.282 | (0.812) | 2913 | 0.20000 | 0.1964 (M) |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.020 | (0.763) | 7407 | 0.20000 | 0.1941 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.870) | 2747 | 0.20000 | 0.2232 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.854) | 5056 | 0.20000 | 0.2030 |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.272 | (1.000) | 412805 | 10.0000 | |
| 26 Chloroform | 83 | 4.732 | 4.737 | (0.898) | 7524 | 0.20000 | 0.1875 |
| 27 Bromochloromethane | 128 | 4.663 | 4.663 | (0.885) | 3311 | 0.40000 | 0.3494 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 171282 | 10.0000 | 9.823 |
| 29 1,1,1-Trichloroethane | 97 | 4.880 | 4.885 | (0.927) | 6321 | 0.20000 | 0.1983 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 6753 | 0.20000 | 0.1911 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.853) | 4963 | 0.20000 | 0.1915 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 156664 | 10.0000 | 10.129 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.945) | 4367 | 0.20000 | 0.2062 (M) |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 19595 | 0.20000 | 0.1995 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.659 | (1.000) | 667305 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 4425 | 0.20000 | 0.1703 |
| 37 1,2-Dichloropropane | 63 | 6.001 | 6.007 | (1.061) | 3998 | 0.20000 | 0.1901 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 5467 | 0.20000 | 0.2018 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 1714 | 0.20000 | 0.2018 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.144) | 978 | 0.20000 | 0.1623 (M) |
| 41 4-Methyl-2-Pentanone | 58 | 6.940 | 6.946 | (1.227) | 532 | 0.20000 | 0.1606 (M) |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 4925 | 0.20000 | 0.1738 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 837862 | 10.0000 | 10.064 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 12575 | 0.20000 | 0.1895 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 3611 | 0.20000 | 0.1732 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 867 | 0.20000 | 0.1779 (T) |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.252) | 2507 | 0.20000 | 0.1972 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 4583 | 0.20000 | 0.2032 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 5205 | 0.20000 | 0.1939 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 2858 | 0.20000 | 0.1875 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 2152 | 0.20000 | 0.1919 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 584634 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 13480 | 0.20000 | 0.2027 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 25503 | 0.20000 | 0.2041 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 3704 | 0.20000 | 0.1899 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 17506 | 0.40000 | 0.3736 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 8221 | 0.20000 | 0.1934 |
| 59 Styrene | 104 | 8.192 | 8.198 | (1.061) | 12097 | 0.20000 | 0.1883 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 22323 | 0.20000 | 0.1879 |
| 61 Bromoform | 173 | 8.209 | 8.215 | (0.873) | 1294 | 0.20000 | 0.1814 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.733 | (0.929) | 2062 | 0.20000 | 0.2029 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 244443 | 10.0000 | 10.548 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 638 | 0.20000 | 0.2063 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 244 | 0.20000 | 0.1312 (M) |
| 66 N-Propyl Benzene | 91 | 8.676 | 8.681 | (0.923) | 25873 | 0.20000 | 0.1898 |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.921) | 4252 | 0.20000 | 0.1890 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.818 | 8.824 | (0.938) | 16885 | 0.20000 | 0.1916 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|--------------------------------|-----------|------------------------|---------|---------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) | |
| 69 2-Chloro Toluene | 91 | 8.789 | 8.795 | (0.935) | 16725 | 0.20000 | 0.1966 | |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 13970 | 0.20000 | 0.1904 | |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 14657 | 0.20000 | 0.1978 | |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 16095 | 0.20000 | 0.1931 | |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 21666 | 0.20000 | 0.1975 | |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 16242 | 0.20000 | 0.1941 | |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.353 | (0.994) | 7910 | 0.20000 | 0.2028 | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.410 | (1.000) | 216482 | 10.0000 | | |
| 77 1,4-Dichlorobenzene | 146 | 9.415 | 9.421 | (1.001) | 7199 | 0.20000 | 0.1958 | |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 13714 | 0.20000 | 0.1921 | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.728 | 9.734 | (1.034) | 172501 | 10.0000 | 10.228 | |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.036) | 6113 | 0.20000 | 0.2097 | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | Compound Not Detected. | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.157) | 2425 | 0.20000 | 0.1835 | |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 1792 | 0.20000 | 0.2146 | |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.185) | 3254 | 0.20000 | 0.1784 | |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.200) | 1882 | 0.20000 | 0.2028 | |

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0020304.d
 Lab Smp Id: IC002
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd2
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 412805 | -10.61 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 667305 | -10.57 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 584634 | -12.18 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 216482 | -8.14 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HR10a,b/0020304.d

Date : 04-MAR-2010 19:20

Client ID: vstd2

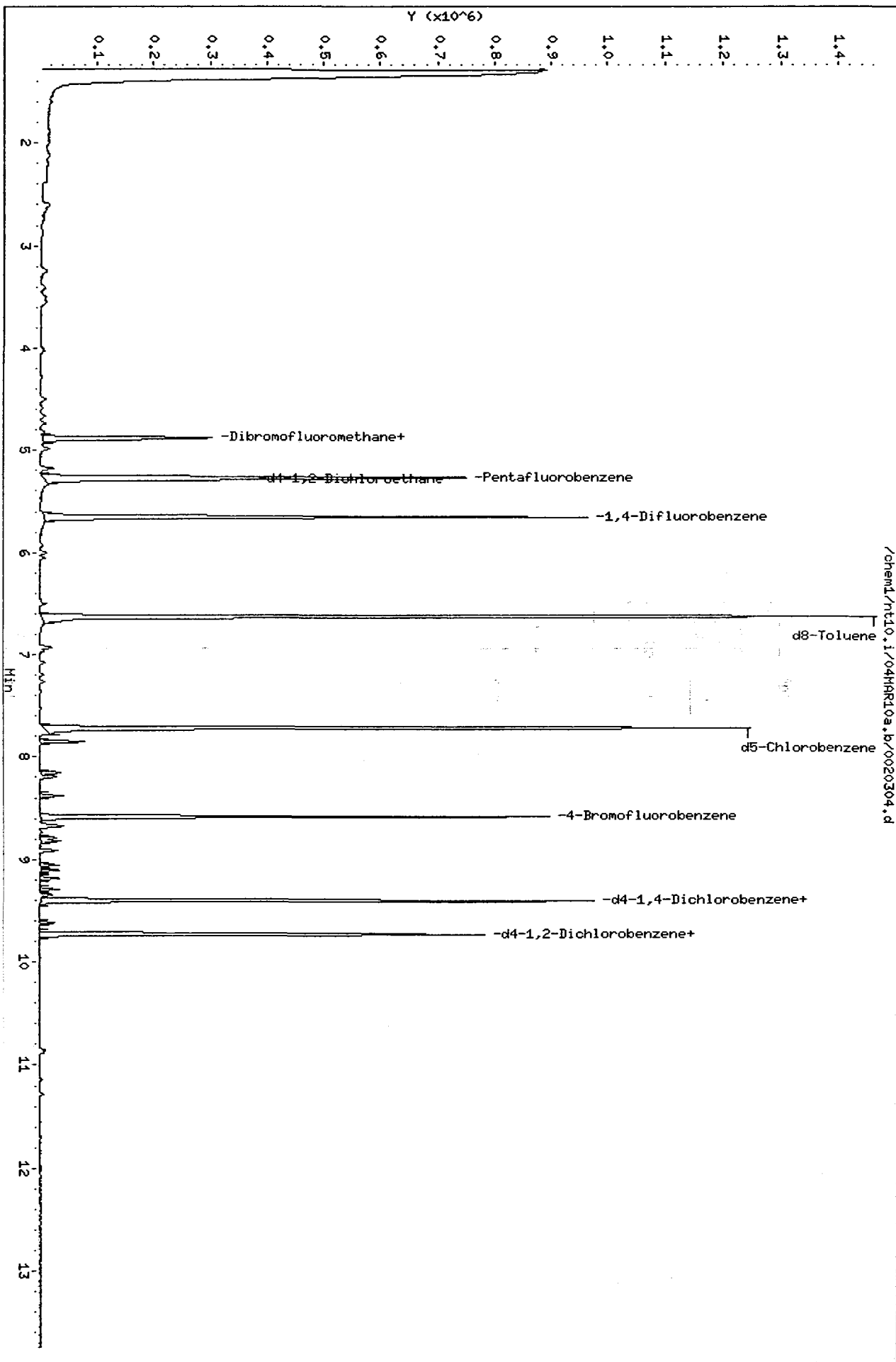
Sample Info: IC002,10,10,0

Column phase: RTX602.2

Instrument: nt10.i

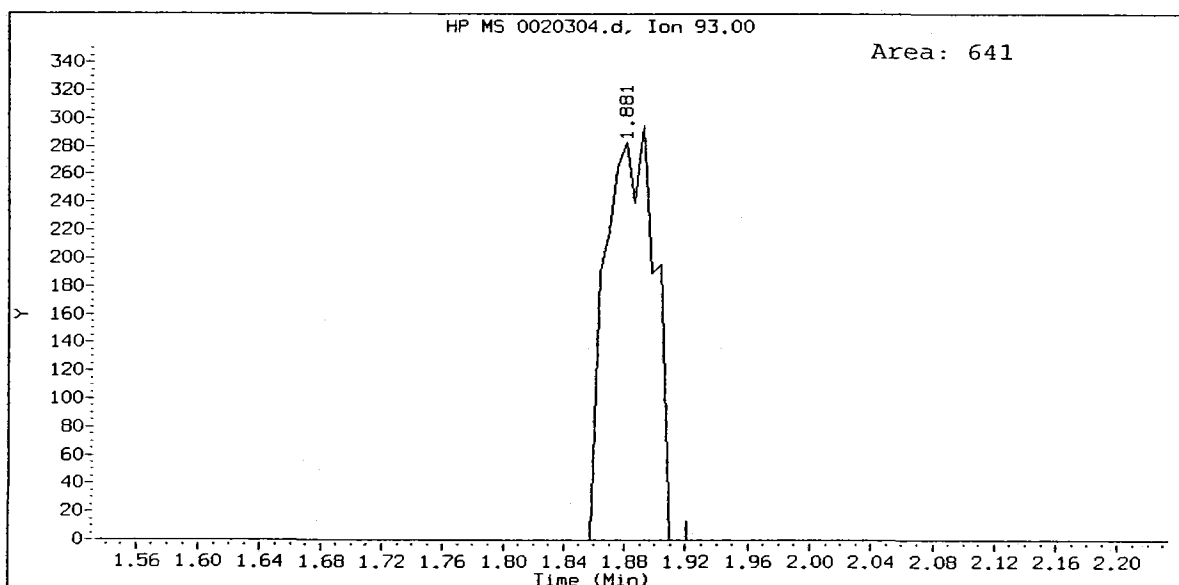
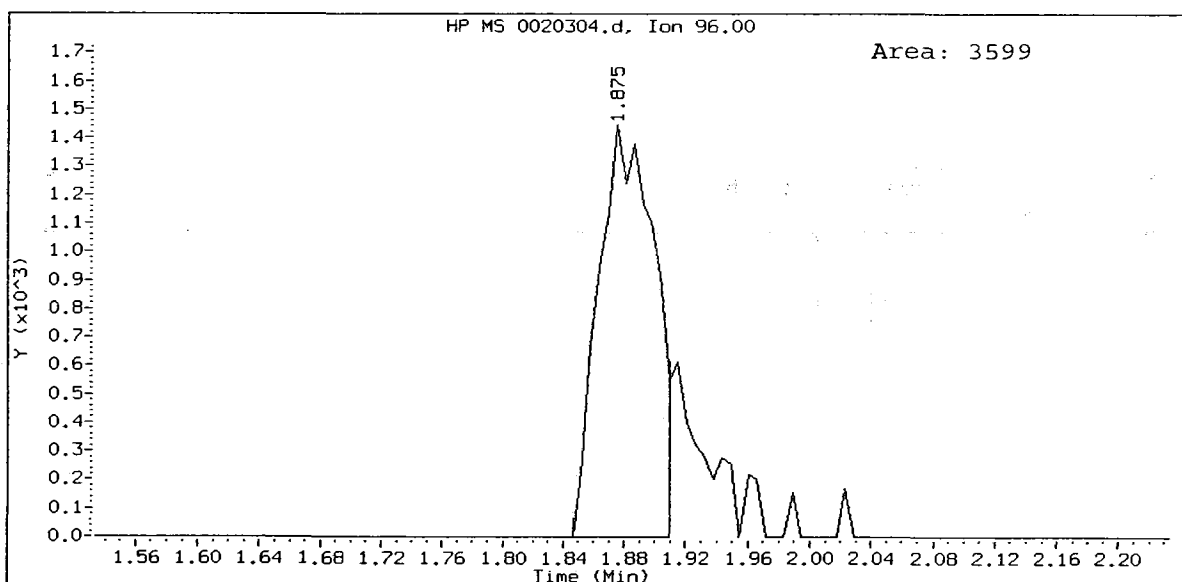
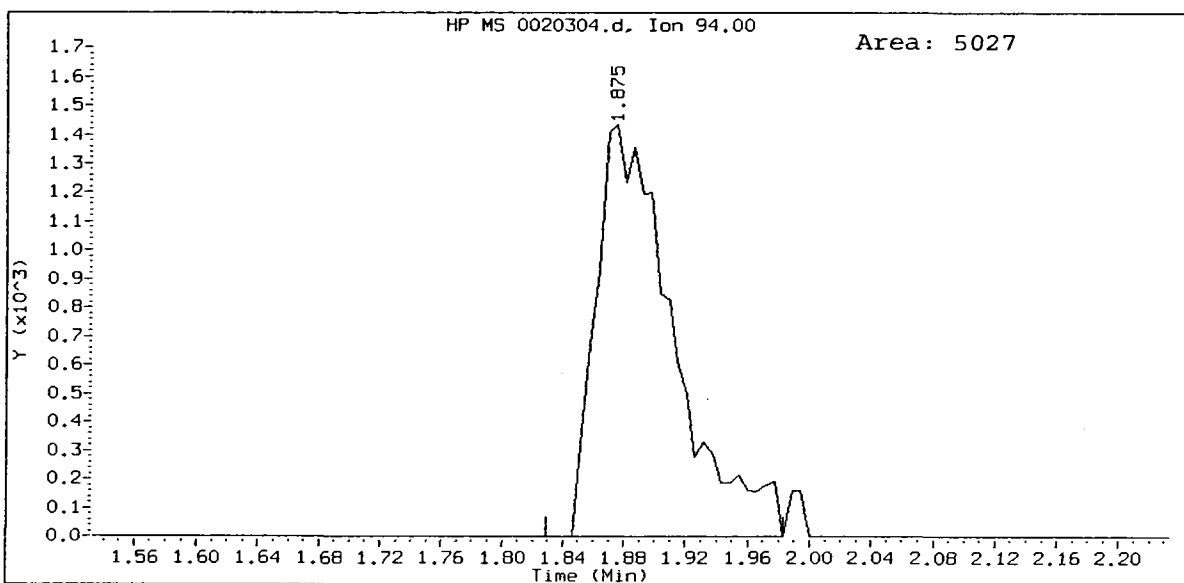
Operator: ar

Column diameter: 0.18

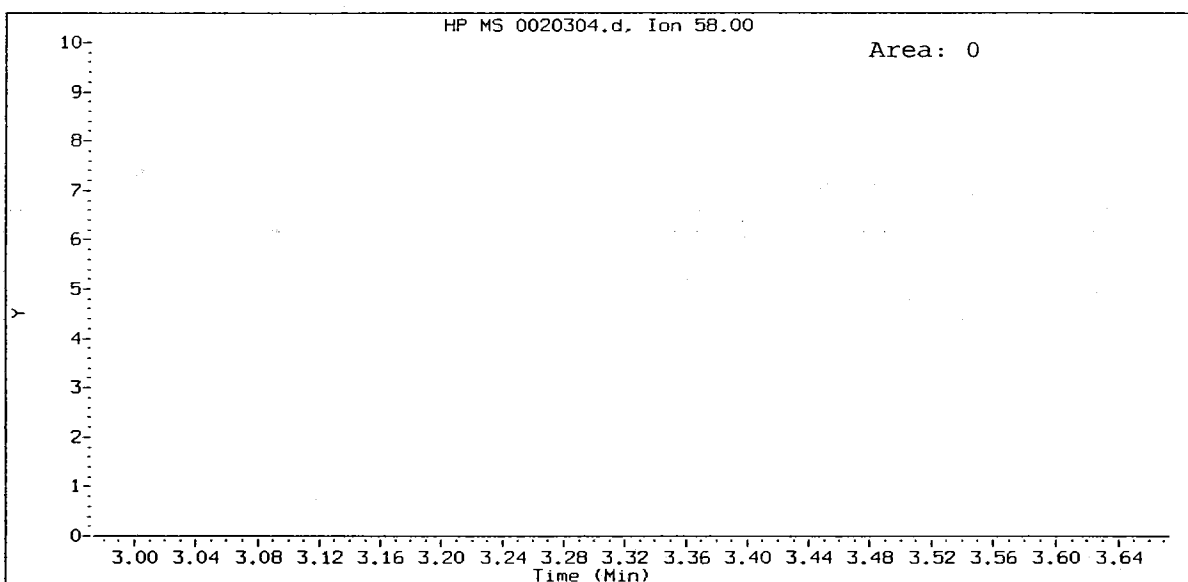
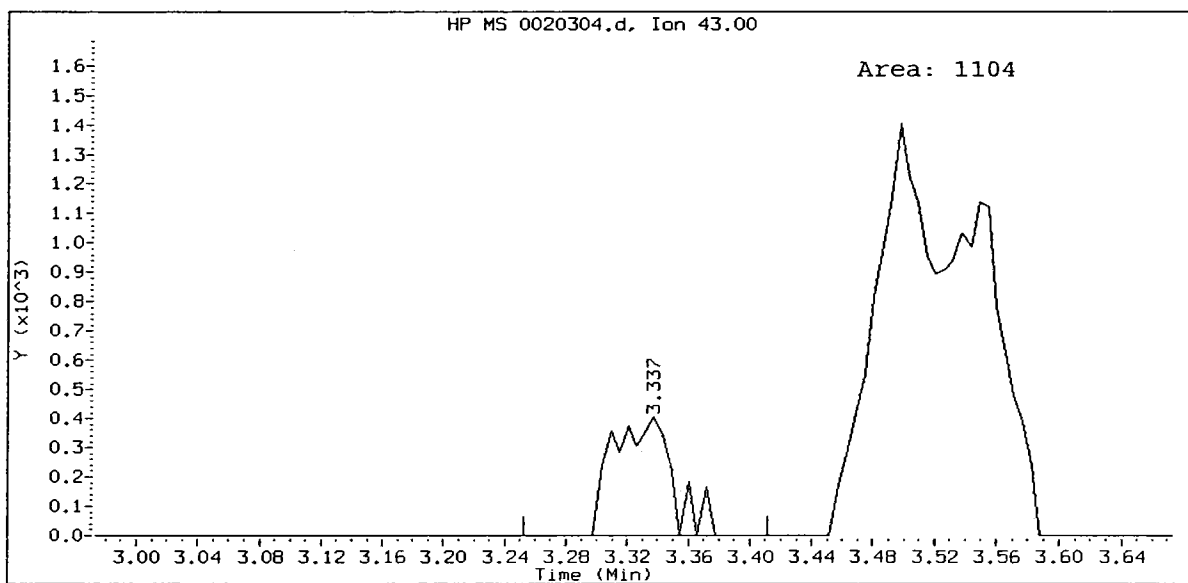


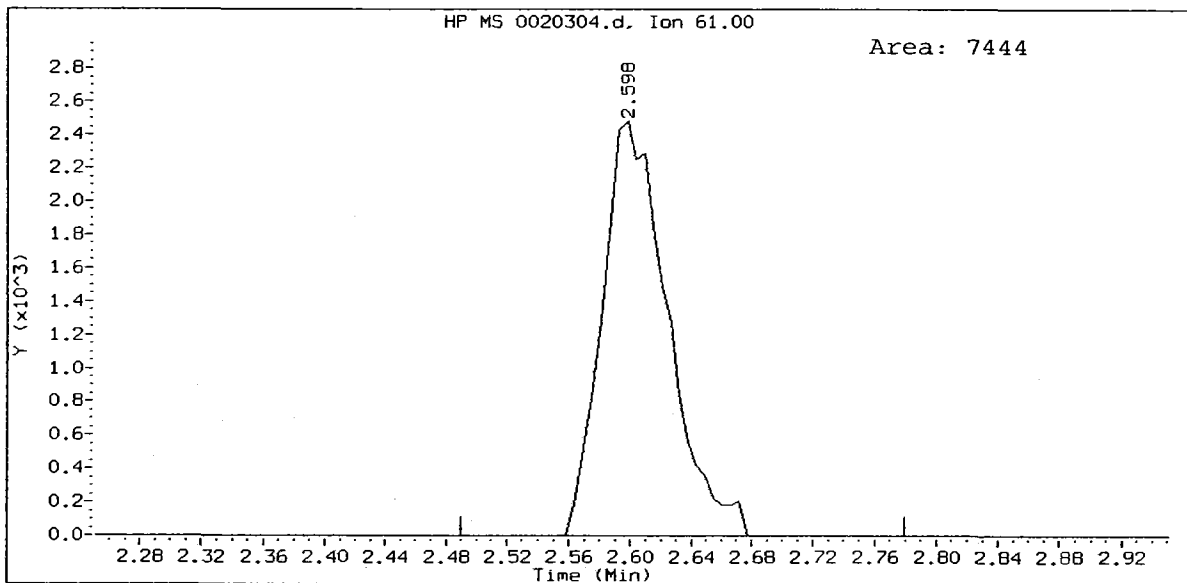
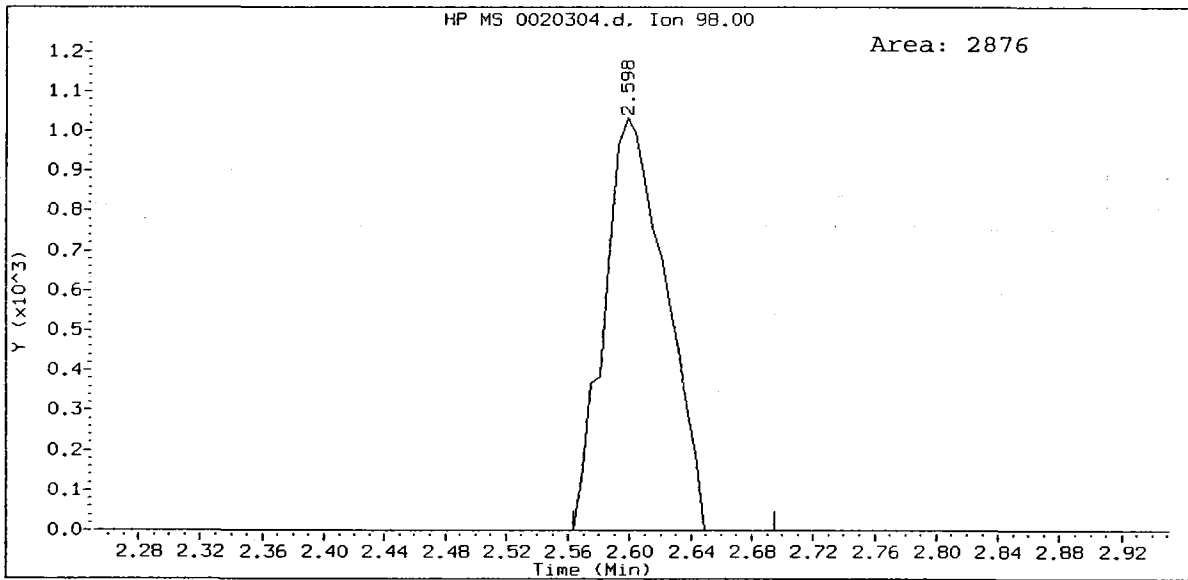
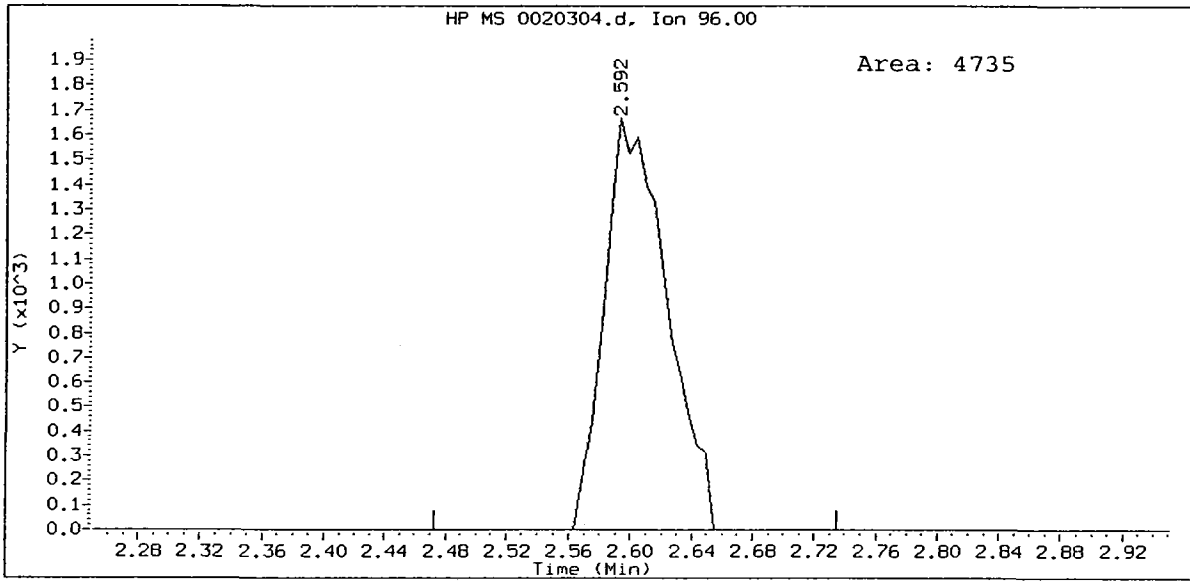
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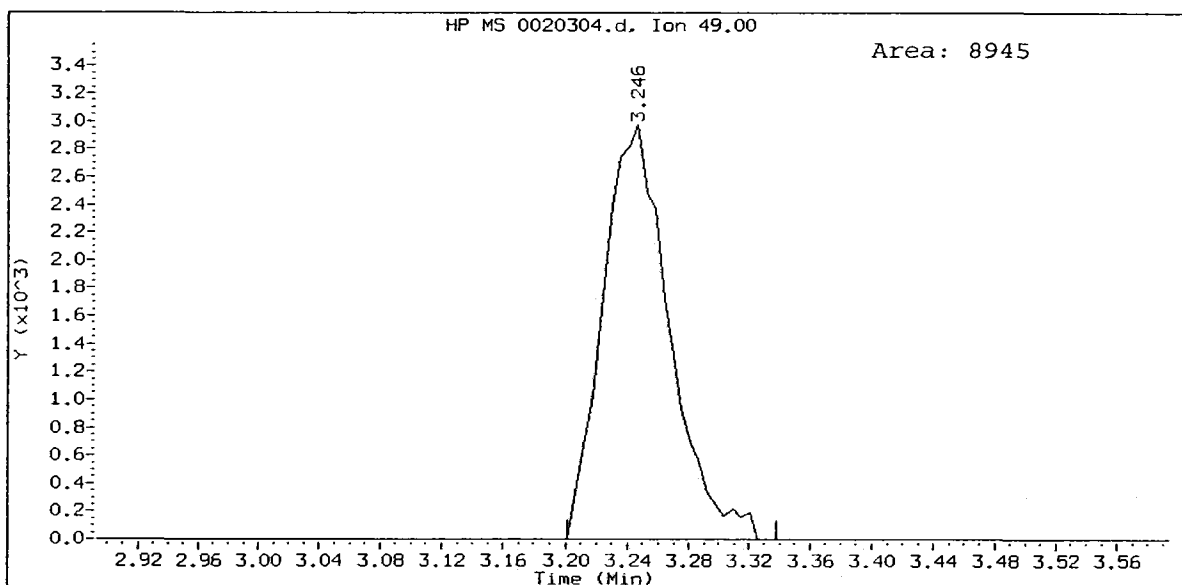
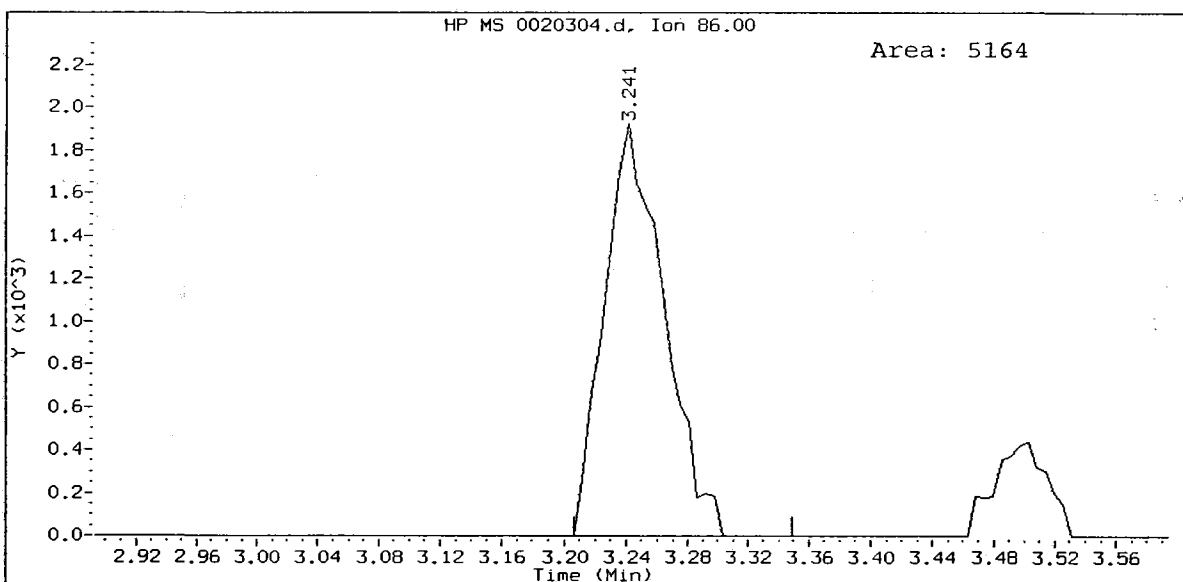
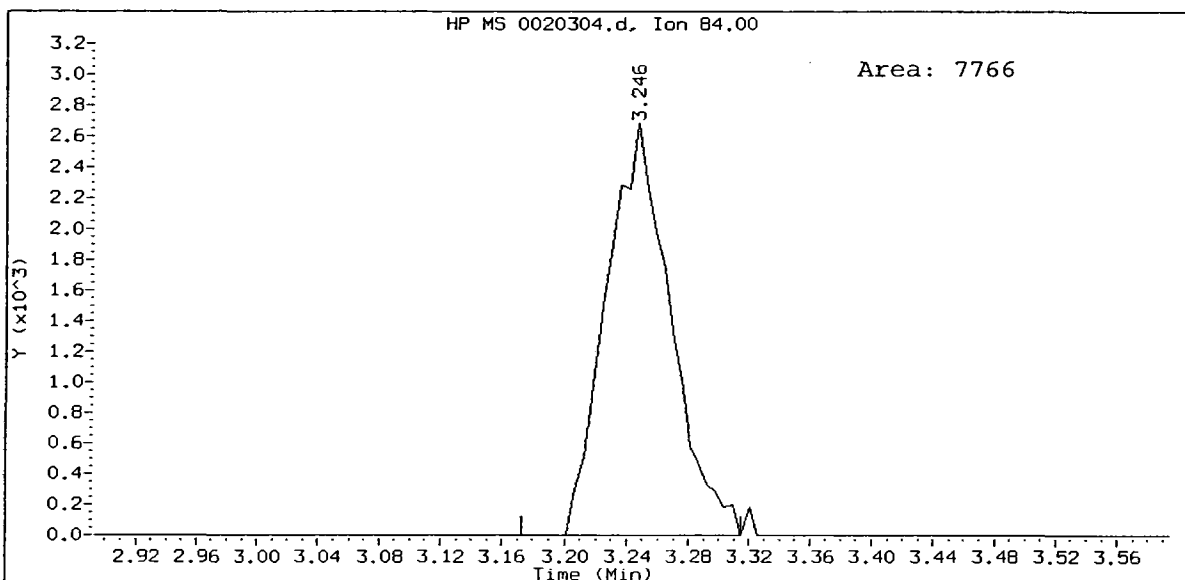
Bromomethane Amount: 0.25



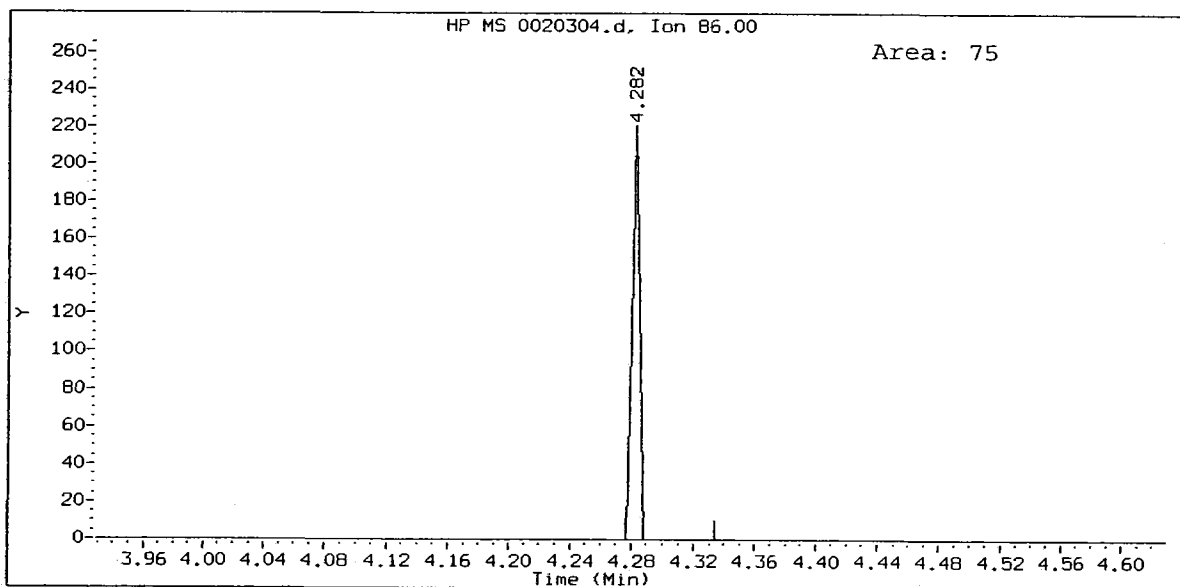
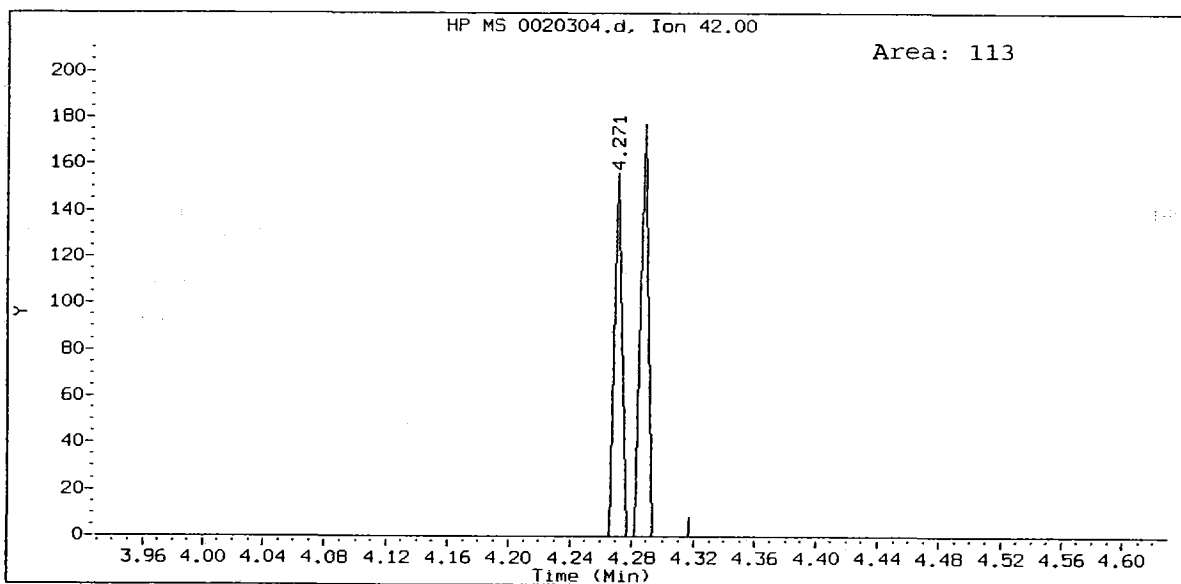
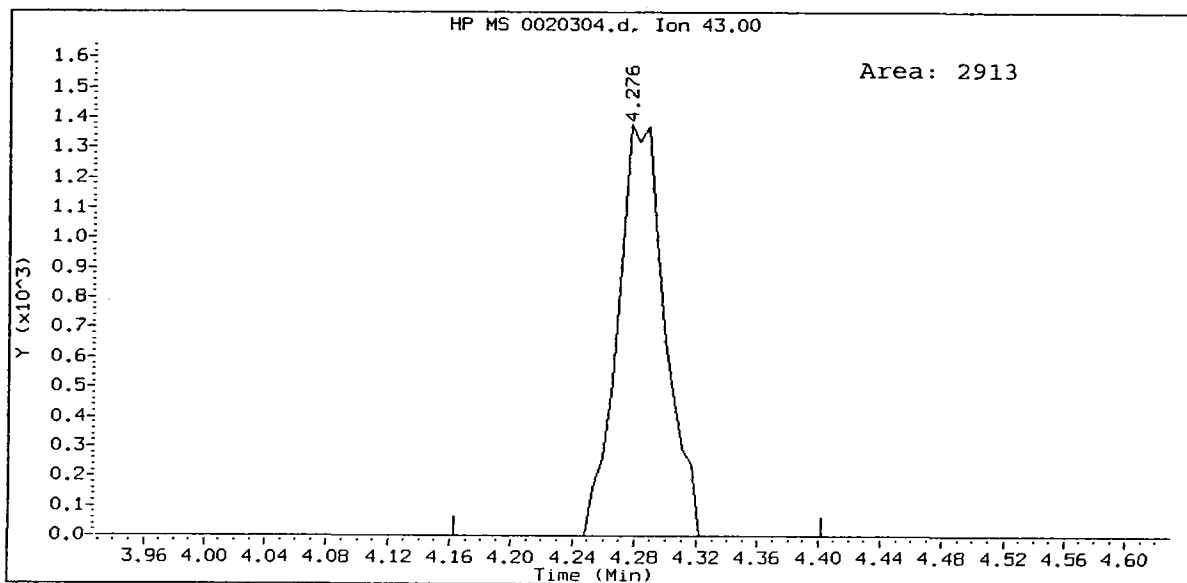
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Acetone Amount: 0.48



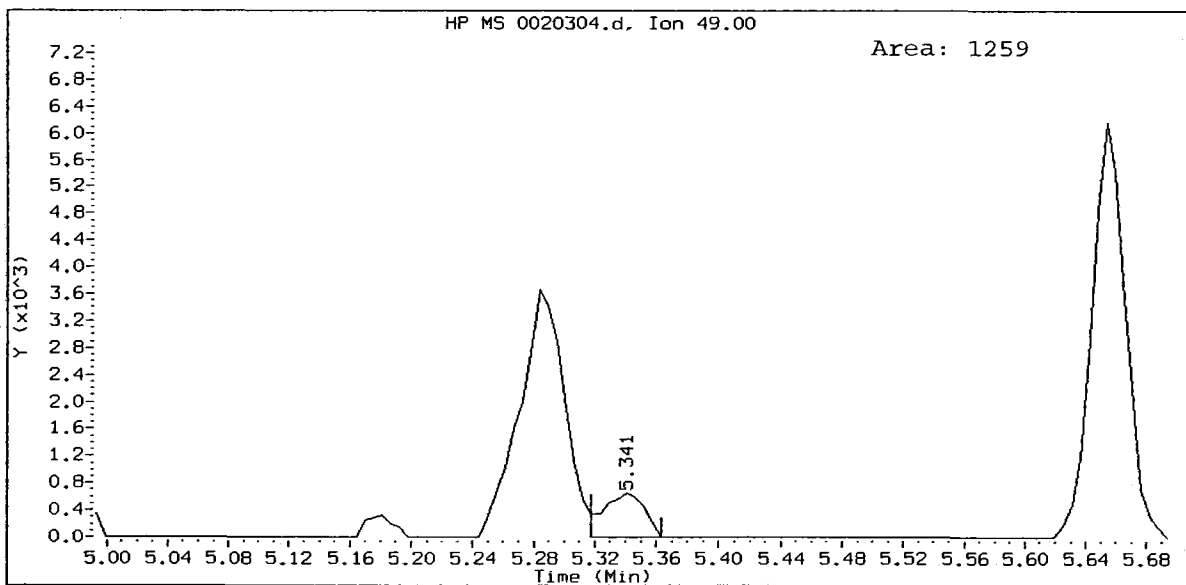
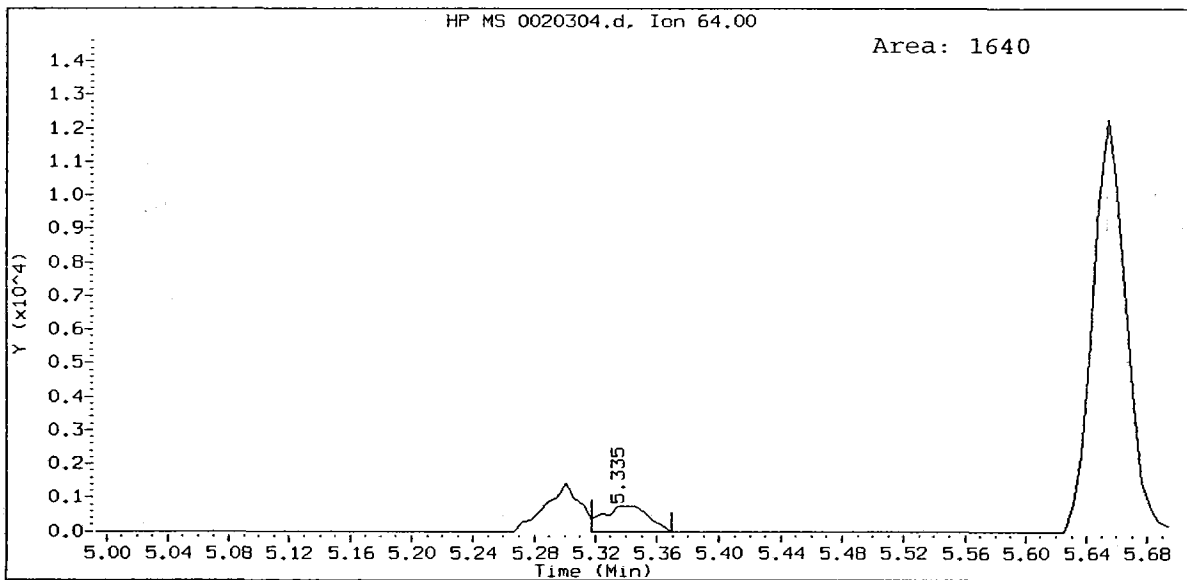
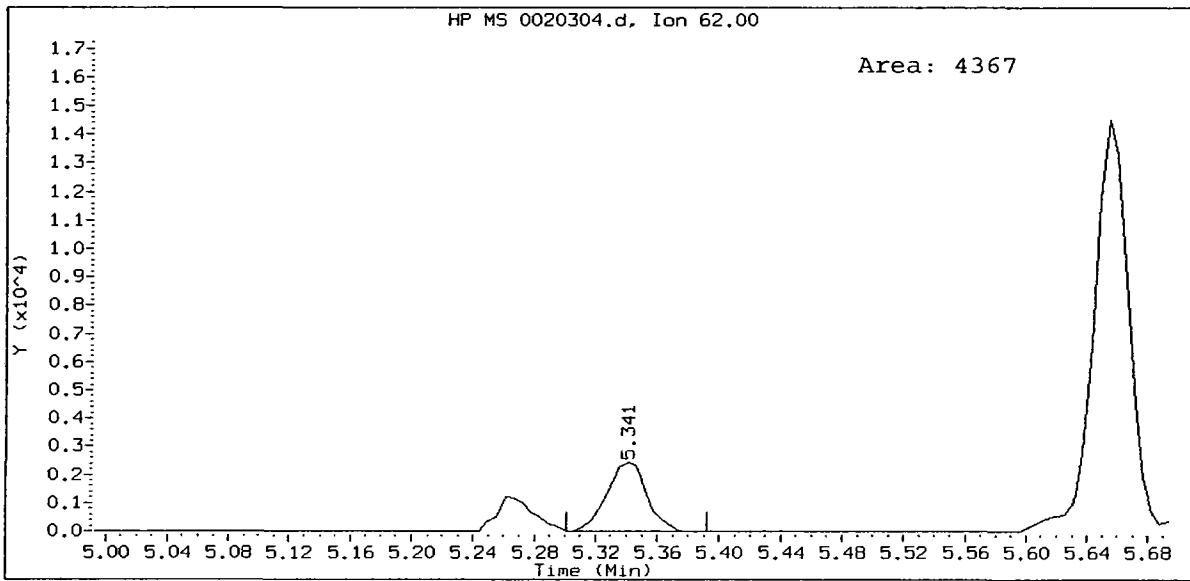


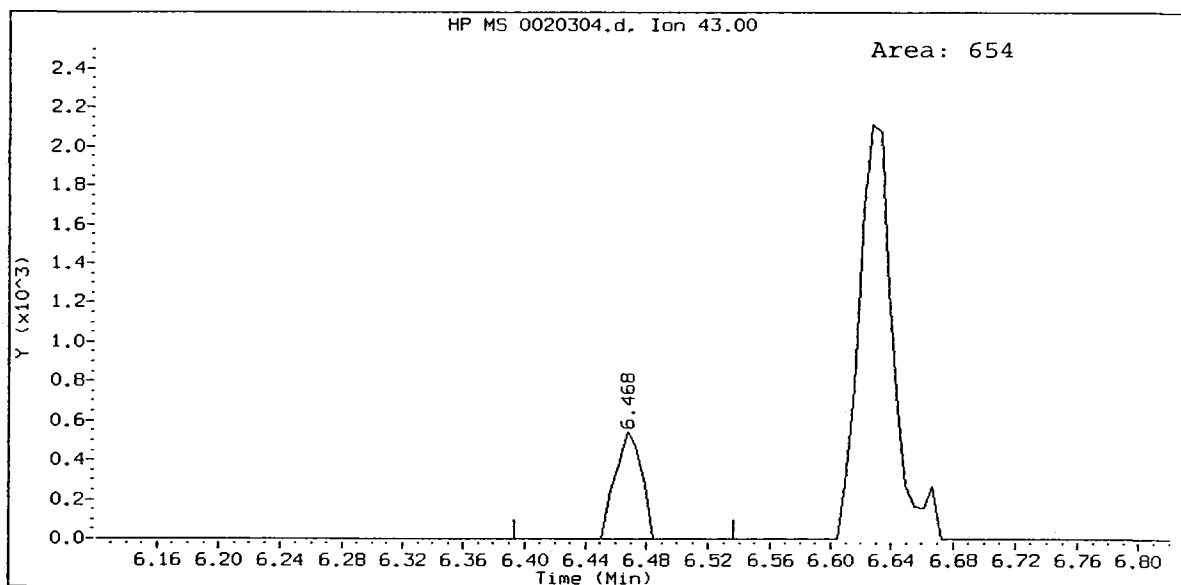
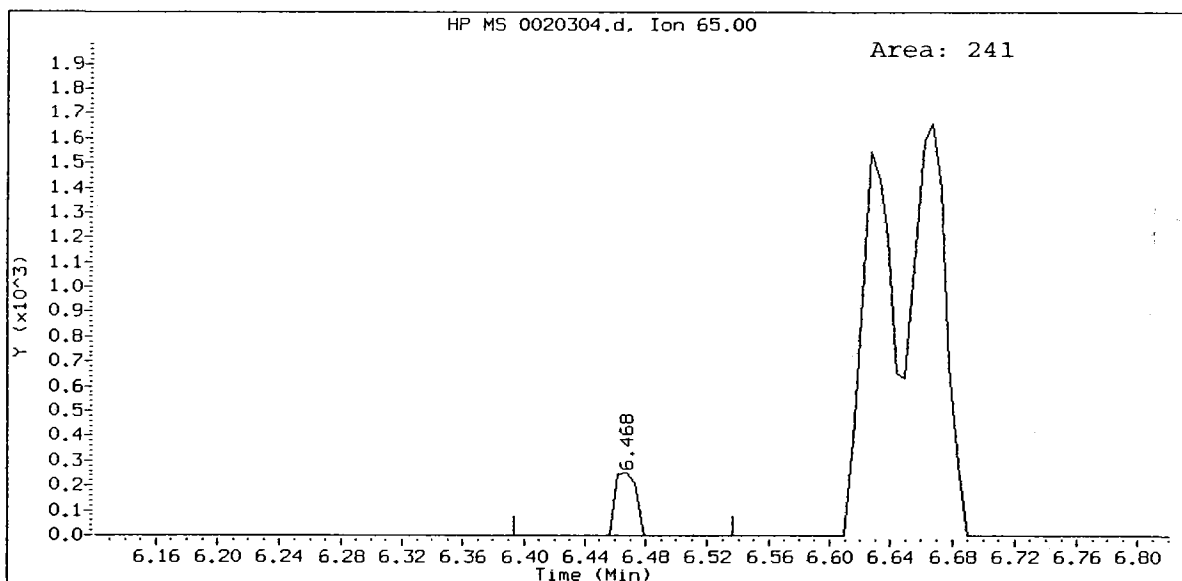
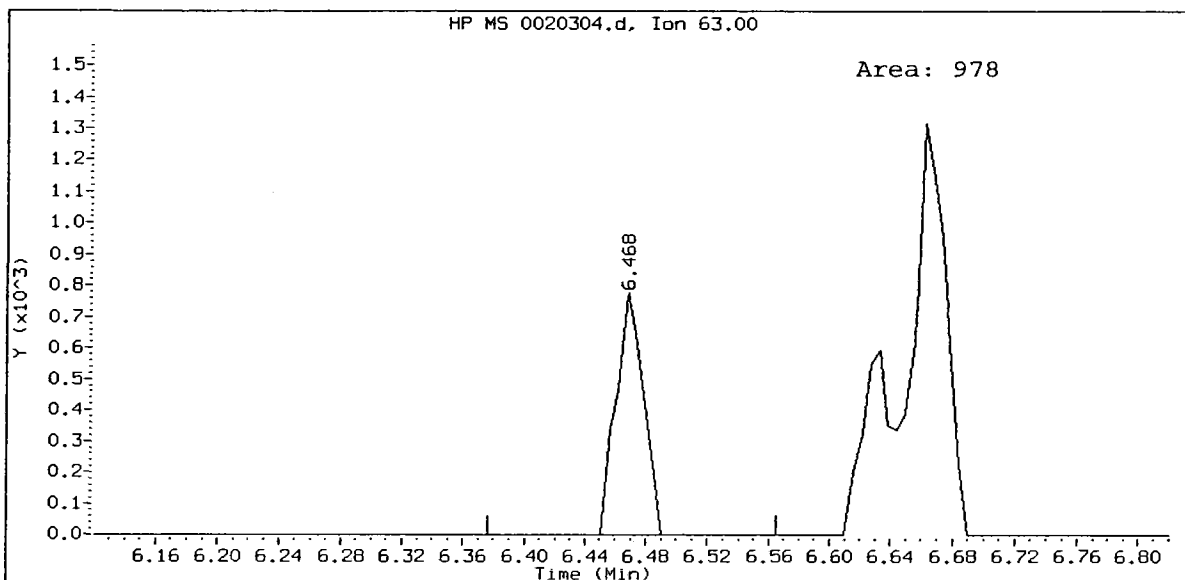


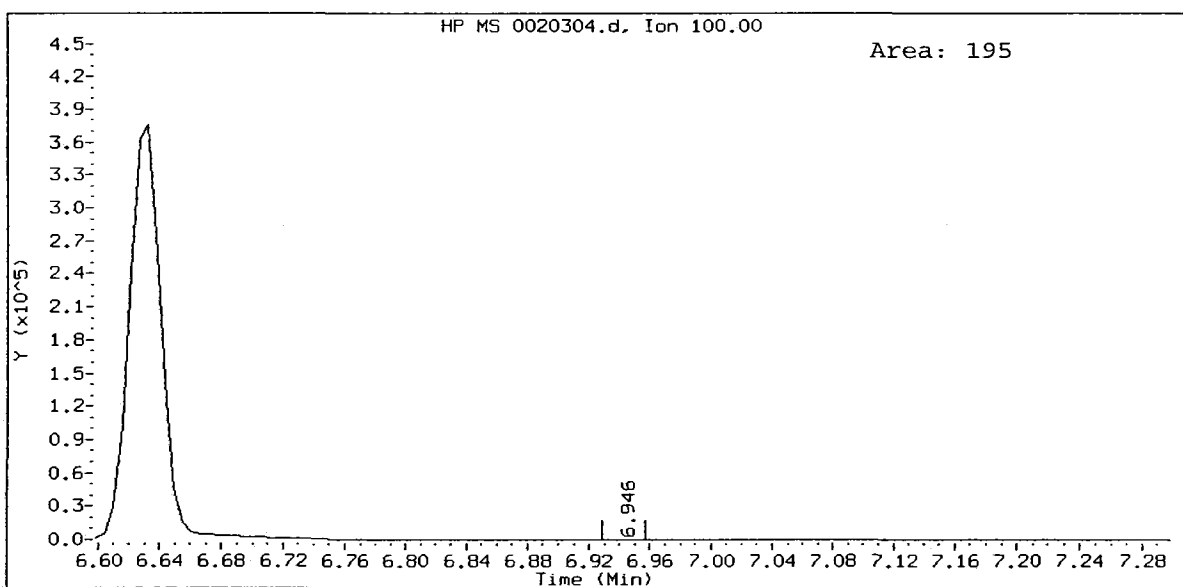
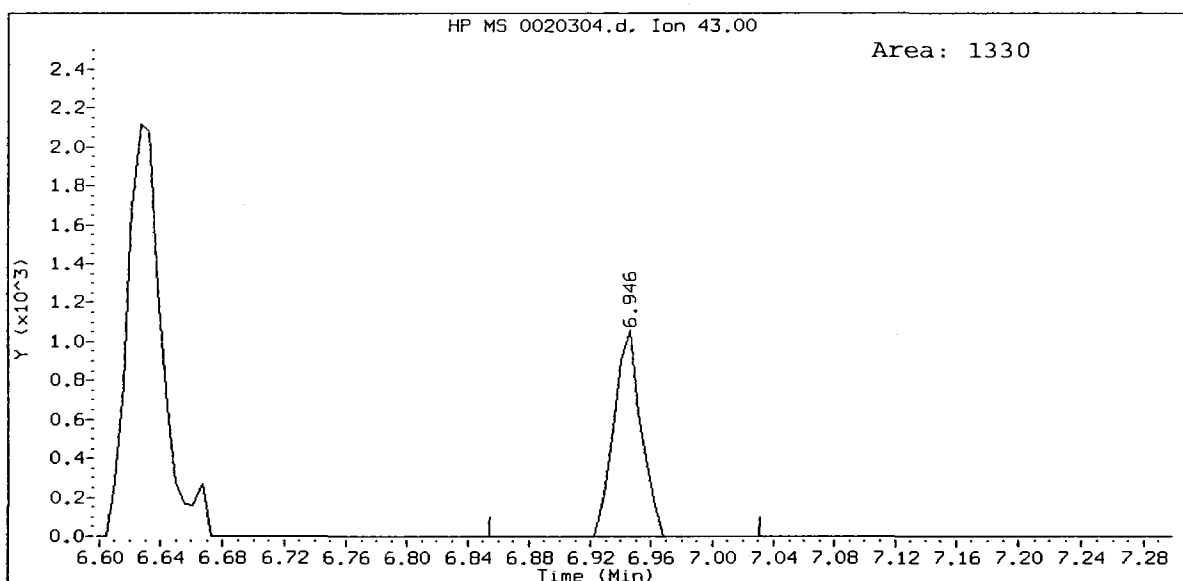
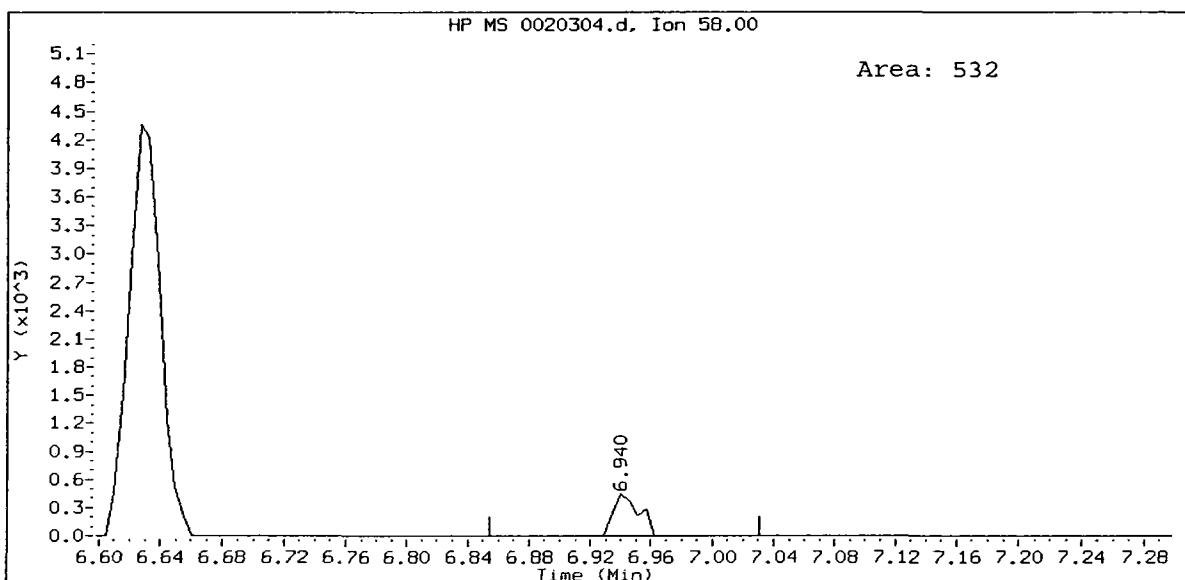
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Vinyl Acetate Amount: 0.20

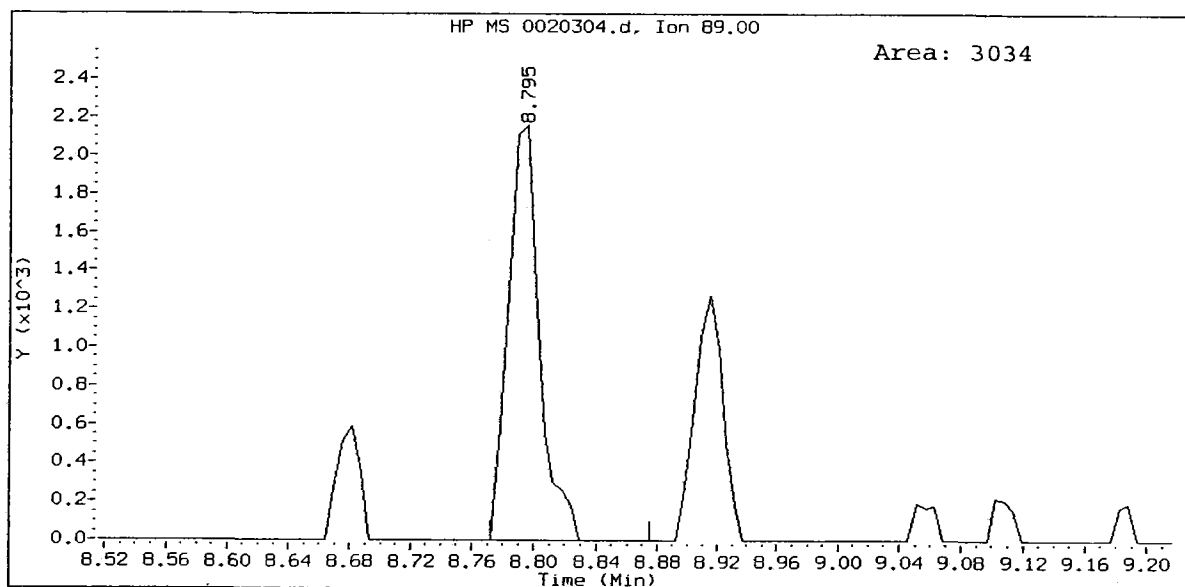
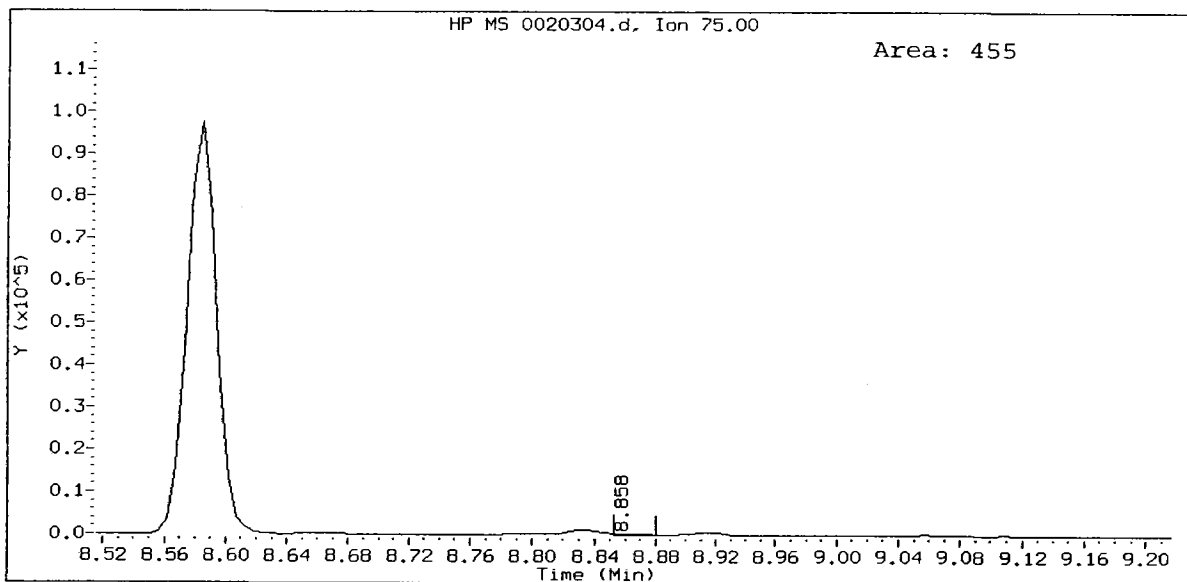
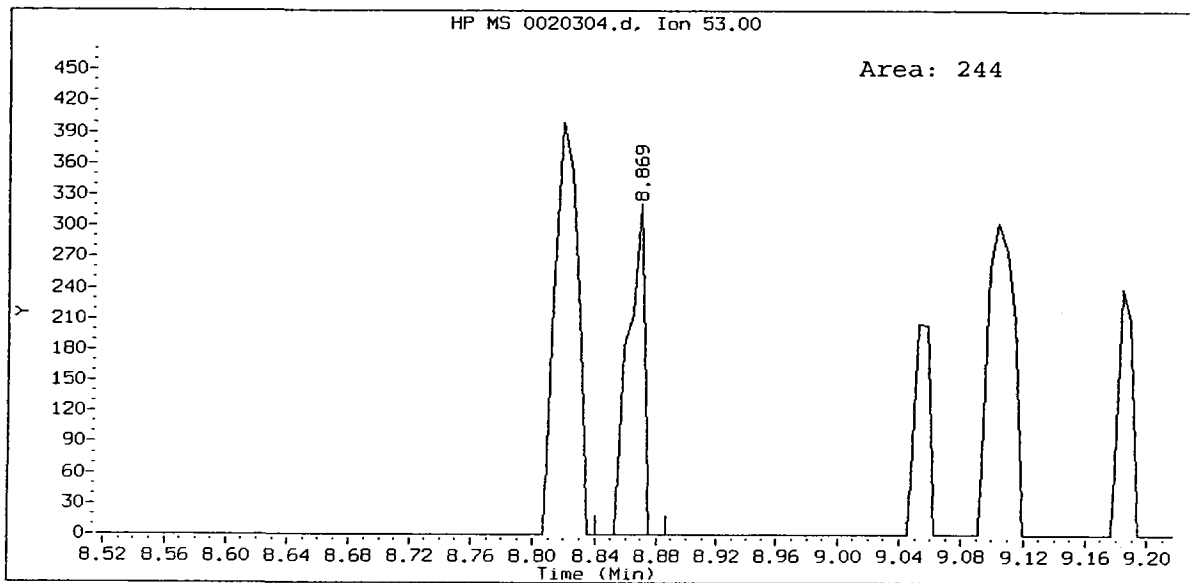


QN31 : 00148

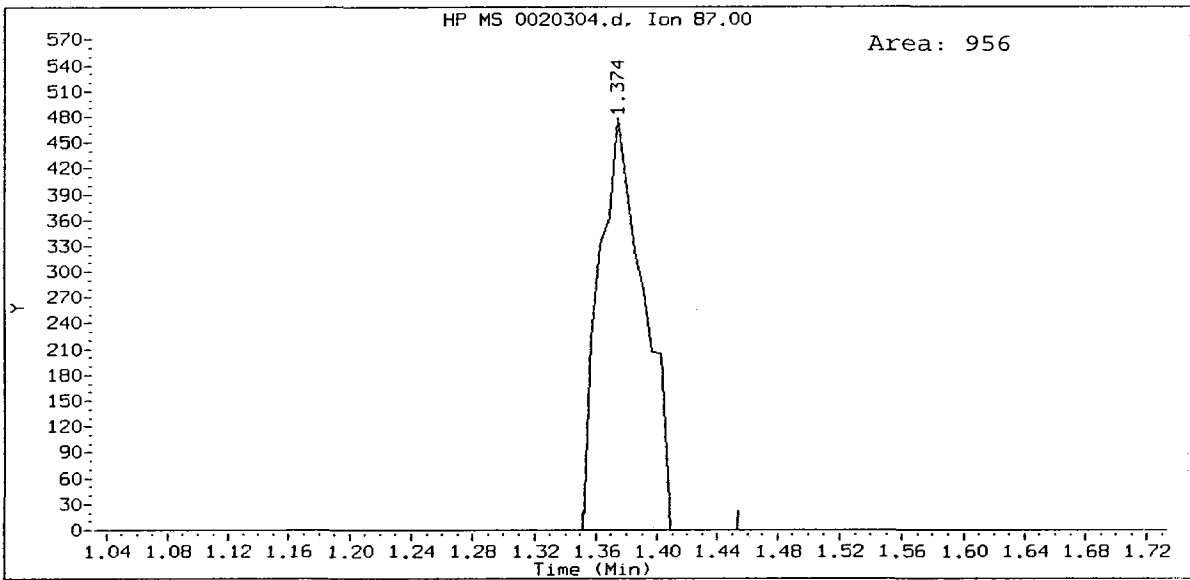
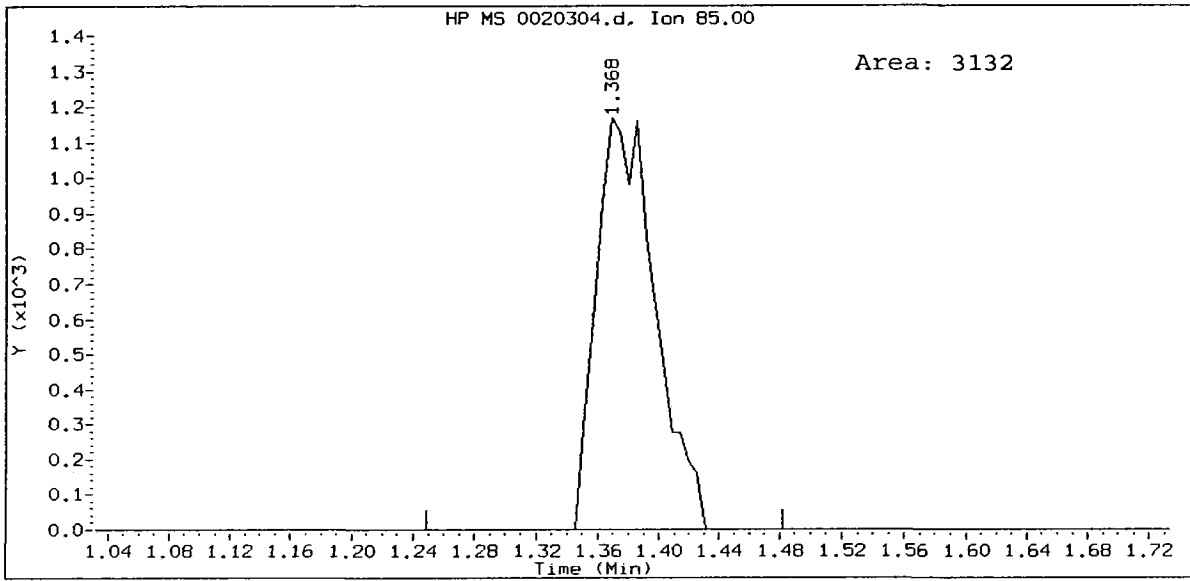




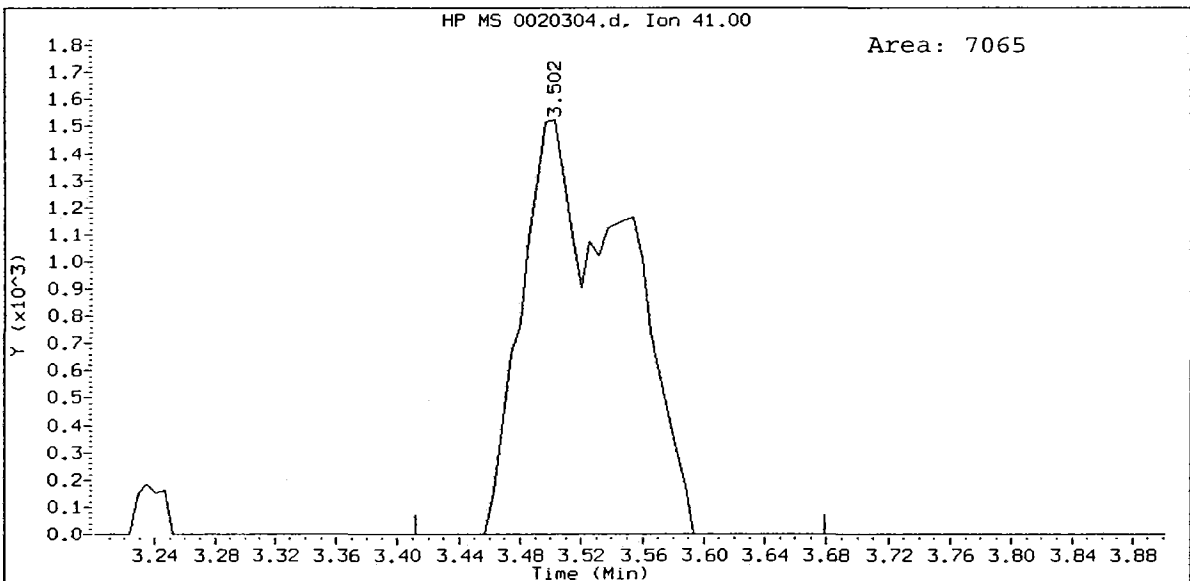
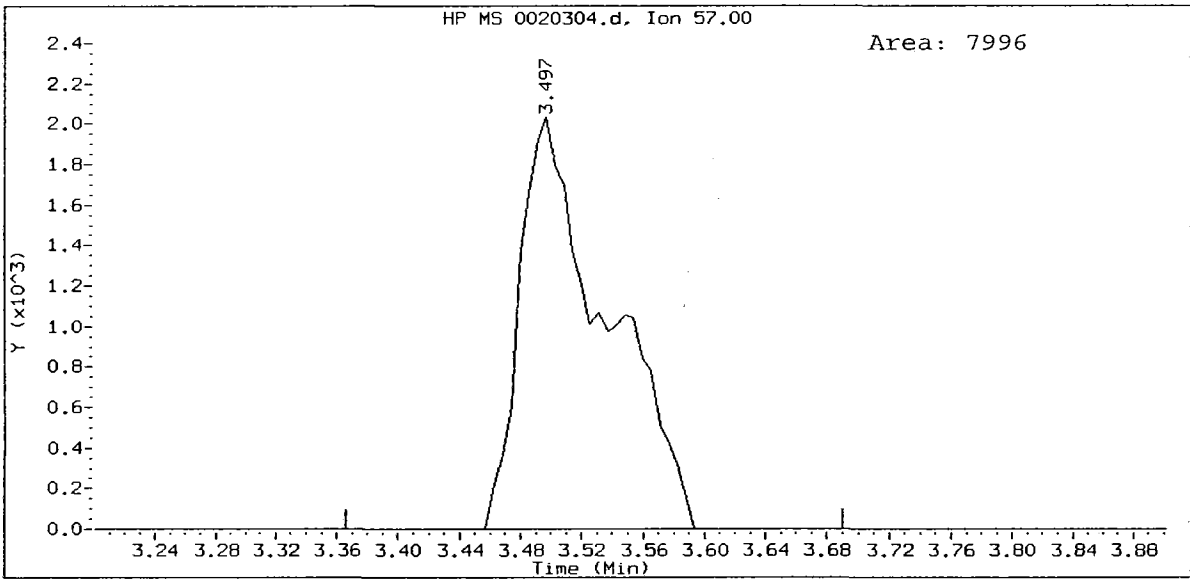
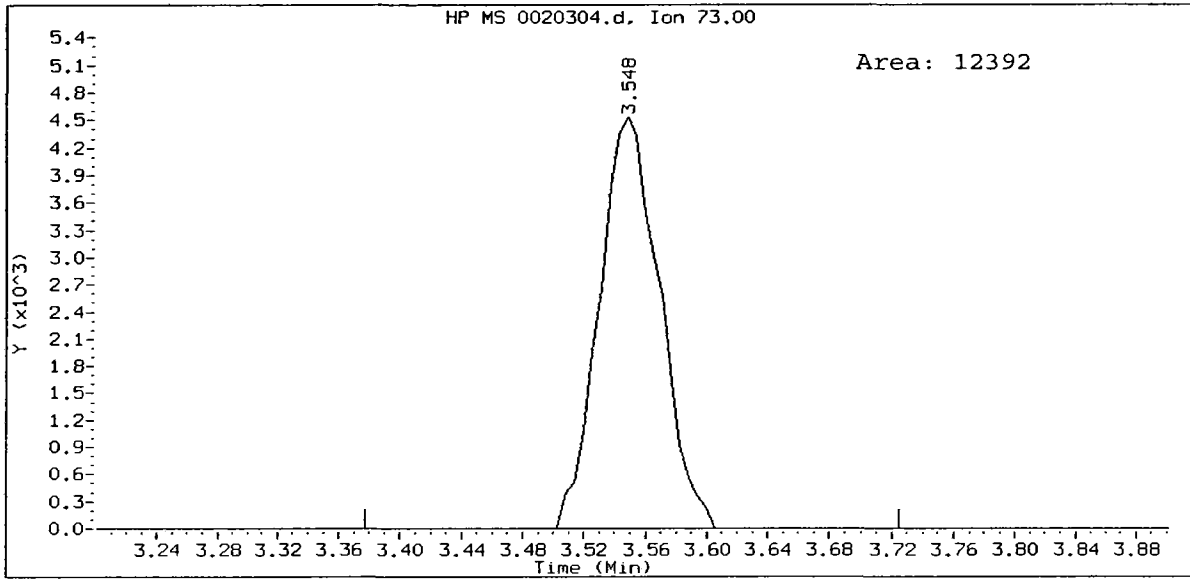




IC002, /chem1/nt10.i/04MAR10a.b/0020304.d
Dichlorodifluoromethane Amount: 0.20



IC002, /chem1/nt10.i/04MAR10a.b/0020304.d
Methyl tert butyl ether Amount: 0.40



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/0050304.d
 Lab Smp Id: IC005 Client Smp ID: vstd3
 Inj Date : 04-MAR-2010 19:50
 Operator : ar Inst ID: nt10.i
 Smp Info : IC005,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 19:50 Cal File: 0050304.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|------------------------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | 1.380 | 1.380 | (0.262) | 8217 | 0.50000 | 0.5173 |
| 2 Chloromethane | 50 | | 1.539 | 1.539 | (0.292) | 9722 | 0.50000 | 0.5500 (M) |
| 3 Vinyl Chloride | 62 | | 1.607 | 1.602 | (0.305) | 12120 | 0.50000 | 0.5243 |
| 4 Bromomethane | 94 | | 1.886 | 1.881 | (0.358) | 11234 | 0.50000 | 0.5404 (M) |
| 5 Chloroethane | 64 | | 2.000 | 2.000 | (0.379) | 9491 | 0.50000 | 0.5246 |
| 6 Trichlorofluoromethane | 101 | | 2.120 | 2.120 | (0.402) | 16995 | 0.50000 | 0.5258 |
| 8 Acrolein | 56 | | Compound Not Detected. | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | 2.666 | 2.660 | (0.506) | 10488 | 0.50000 | 0.5351 |
| 10 Acetone | 43 | | 3.337 | 3.326 | (0.633) | 1888 | 0.50000 | 0.8018 (M) |
| 11 1,1-Dichloroethene | 96 | | 2.609 | 2.603 | (0.495) | 12960 | 0.50000 | 0.5372 |
| 12 Bromoethane | 108 | | 2.888 | 2.876 | (0.548) | 7037 | 0.50000 | 0.4955 (M) |
| 13 Iodomethane | 142 | | 2.740 | 2.740 | (0.520) | 12748 | 0.50000 | 0.4565 |
| 14 Methylene Chloride | 84 | | 3.252 | 3.246 | (0.617) | 14228 | 0.50000 | 0.6984 |
| 15 Acrylonitrile | 53 | | 4.089 | 4.089 | (0.775) | 1077 | 0.50000 | 0.4534 (TM) |
| 16 Methyl tert butyl ether | 73 | | 3.554 | 3.548 | (0.674) | 33647 | 1.00000 | 1.050 (M) |
| 17 Carbon Disulfide | 76 | | 2.609 | 2.609 | (0.495) | 36970 | 0.50000 | 0.5046 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|-------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.417 | 3.411 | (0.648) | 12141 | 0.50000 | 0.5080 (M) |
| 20 Vinyl Acetate | 43 | 4.288 | 4.282 | (0.813) | 7302 | 0.50000 | 0.4842 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.020 | (0.763) | 19246 | 0.50000 | 0.4960 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.946) | 1074 | 0.50000 | 0.4340 (T) |
| 23 2,2-Dichloropropane | 77 | 4.589 | 4.584 | (0.870) | 6337 | 0.50000 | 0.5064 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 12806 | 0.50000 | 0.5056 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.272 | (1.000) | 419701 | 10.0000 | |
| 26 Chloroform | 83 | 4.737 | 4.737 | (0.899) | 20554 | 0.50000 | 0.5038 |
| 27 Bromochloromethane | 128 | 4.663 | 4.663 | (0.884) | 8577 | 1.00000 | 0.8902 |
| \$ 28 Dibromofluoromethane | 111 | 4.885 | 4.880 | (0.927) | 173473 | 10.0000 | 9.786 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 15673 | 0.50000 | 0.4835 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 17788 | 0.50000 | 0.4931 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 12518 | 0.50000 | 0.4730 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 156275 | 10.0000 | 9.938 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 11063 | 0.50000 | 0.5118 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 48768 | 0.50000 | 0.4864 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.659 | (1.000) | 681256 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 12316 | 0.50000 | 0.4644 |
| 37 1,2-Dichloropropane | 63 | 6.006 | 6.007 | (1.061) | 10390 | 0.50000 | 0.4839 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 13228 | 0.50000 | 0.4782 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 4208 | 0.50000 | 0.4853 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.467 | 6.468 | (1.143) | 2785 | 0.50000 | 0.4524 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 1512 | 0.50000 | 0.4473 (M) |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 12997 | 0.50000 | 0.4493 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 851028 | 10.0000 | 10.013 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 33329 | 0.50000 | 0.4919 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 9068 | 0.50000 | 0.4261 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 2349 | 0.50000 | 0.4589 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.250) | 6306 | 0.50000 | 0.4860 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 11281 | 0.50000 | 0.4762 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 13622 | 0.50000 | 0.4831 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 7581 | 0.50000 | 0.4736 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 5339 | 0.50000 | 0.4662 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 614085 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 33991 | 0.50000 | 0.4865 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 64368 | 0.50000 | 0.4904 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 9977 | 0.50000 | 0.4870 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 46306 | 1.00000 | 0.9409 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 21245 | 0.50000 | 0.4759 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 31105 | 0.50000 | 0.4610 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 59007 | 0.50000 | 0.4749 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 3374 | 0.50000 | 0.4522 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.732 | 8.733 | (0.929) | 5517 | 0.50000 | 0.5190 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 250119 | 10.0000 | 10.275 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 1563 | 0.50000 | 0.4831 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.863 | 8.869 | (0.942) | 789 | 0.50000 | 0.4041 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 68276 | 0.50000 | 0.4788 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.921) | 11276 | 0.50000 | 0.4791 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 44632 | 0.50000 | 0.4841 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 43171 | 0.50000 | 0.4850 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 35884 | 0.50000 | 0.4675 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 38524 | 0.50000 | 0.4969 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 42255 | 0.50000 | 0.4846 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 58018 | 0.50000 | 0.5055 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 43467 | 0.50000 | 0.4966 |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.353 | (0.994) | 19601 | 0.50000 | 0.4804 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.410 | (1.000) | 226476 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.415 | 9.421 | (1.001) | 19003 | 0.50000 | 0.4940 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 36402 | 0.50000 | 0.4874 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.728 | 9.734 | (1.034) | 177874 | 10.0000 | 10.081 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.036) | 15230 | 0.50000 | 0.4994 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.354 | 10.355 | (1.101) | 383 | 0.50000 | 0.3841 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.157) | 5938 | 0.50000 | 0.4294 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 4435 | 0.50000 | 0.5077 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.185) | 8033 | 0.50000 | 0.4210 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.200) | 4484 | 0.50000 | 0.4619 |

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0050304.d
Lab Smp Id: IC005
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 22:19
Client Smp ID: vstd3
Level: LOW
Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 419701 | -9.12 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 681256 | -8.70 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 614085 | -7.75 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 226476 | -3.90 |

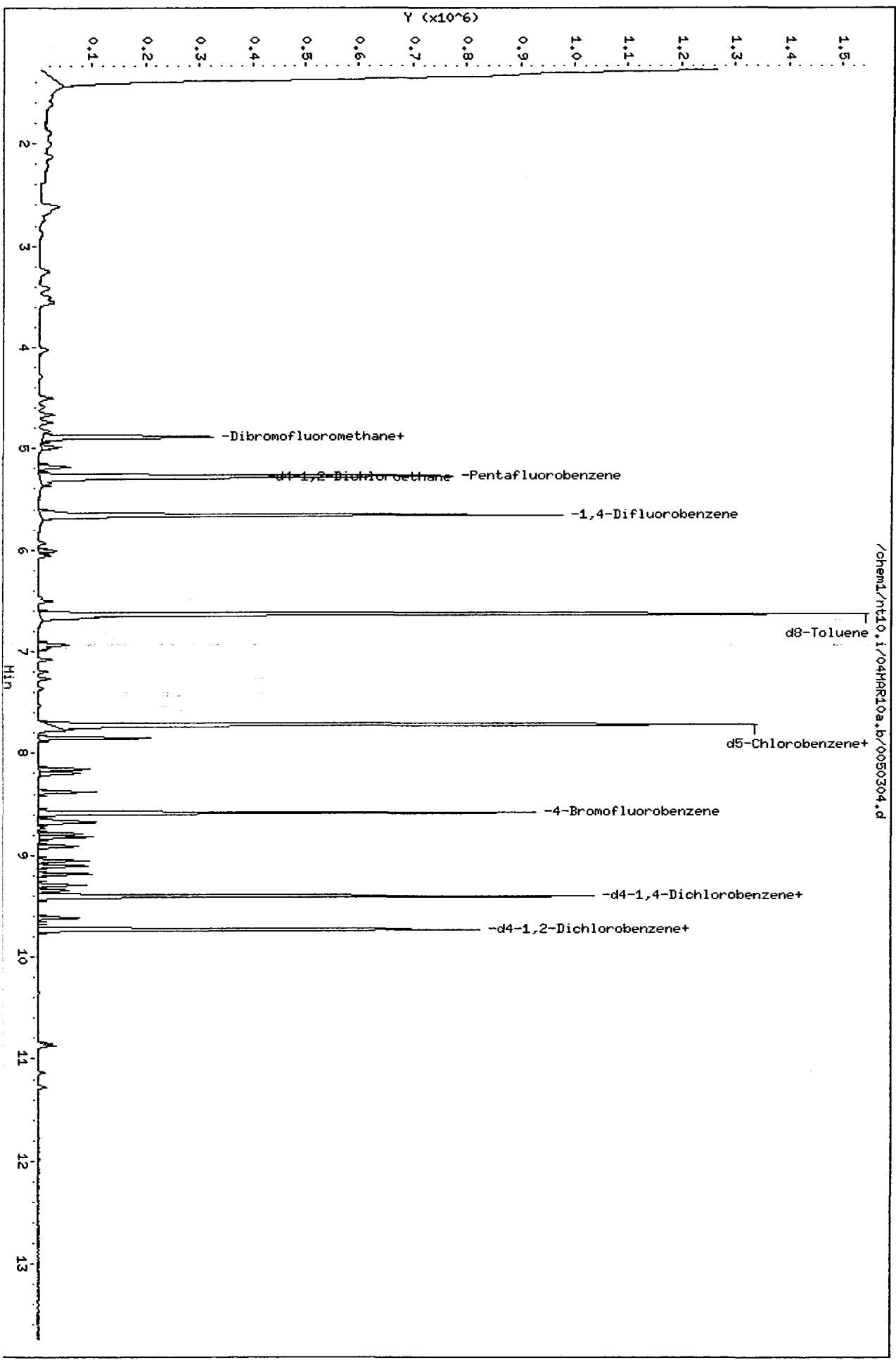
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

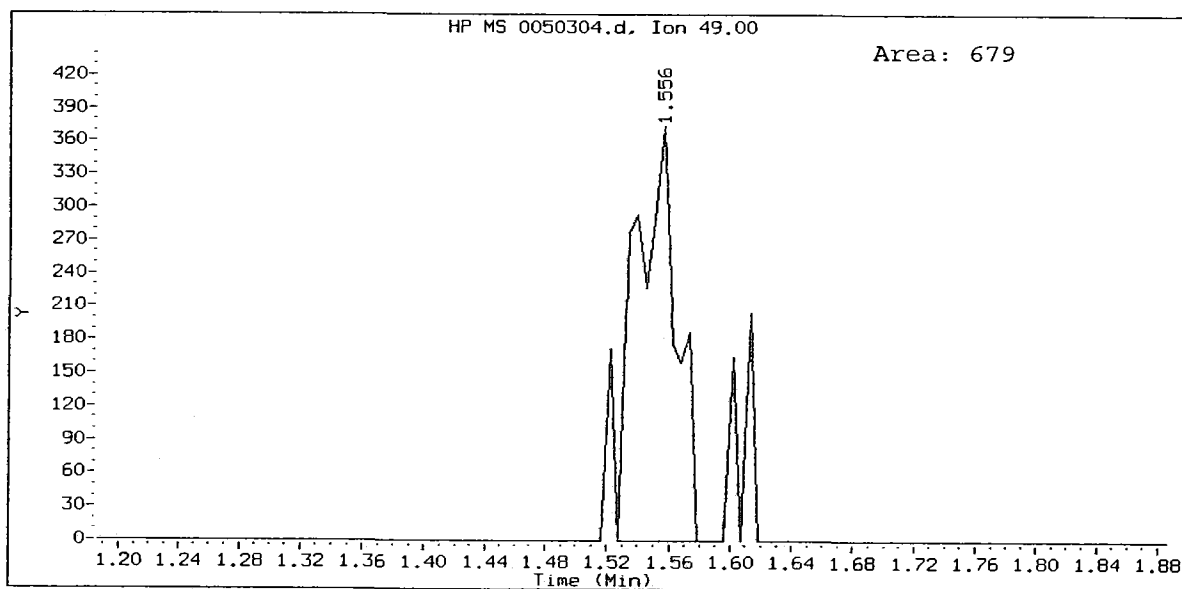
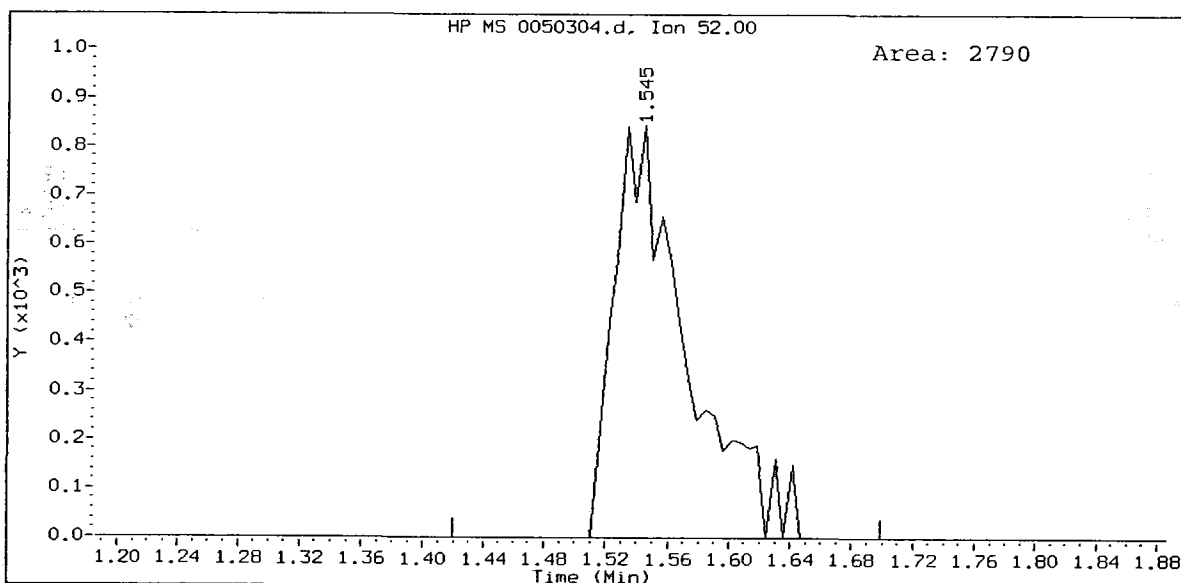
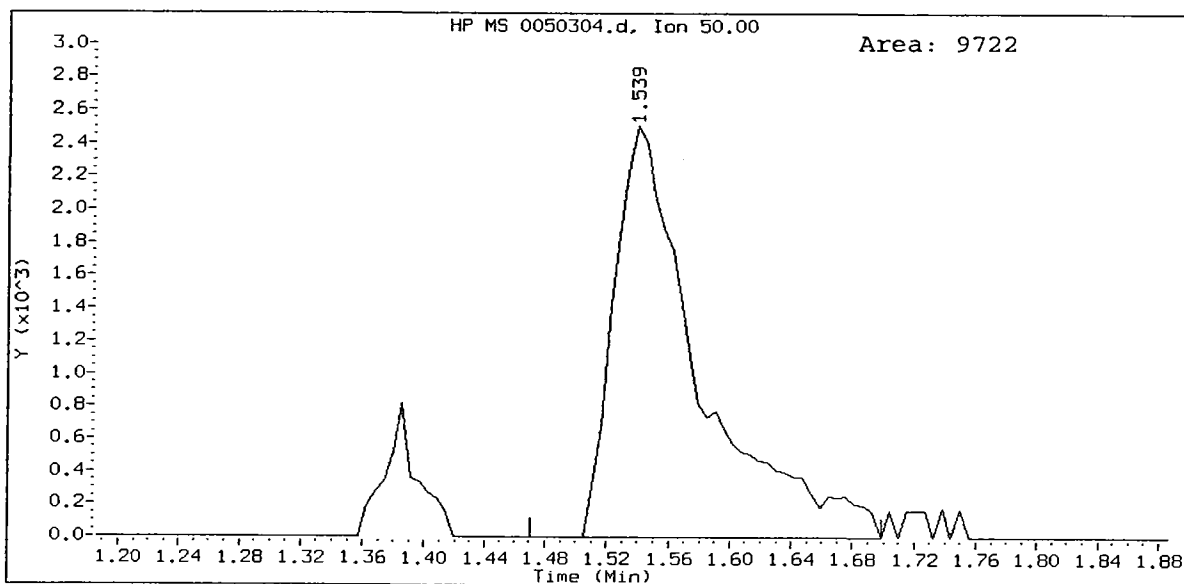
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10a.b/0050304.d
Date: 04-MAR-2010 19:50
Client ID: vstd3
Sample Info: IC005,10,10,0

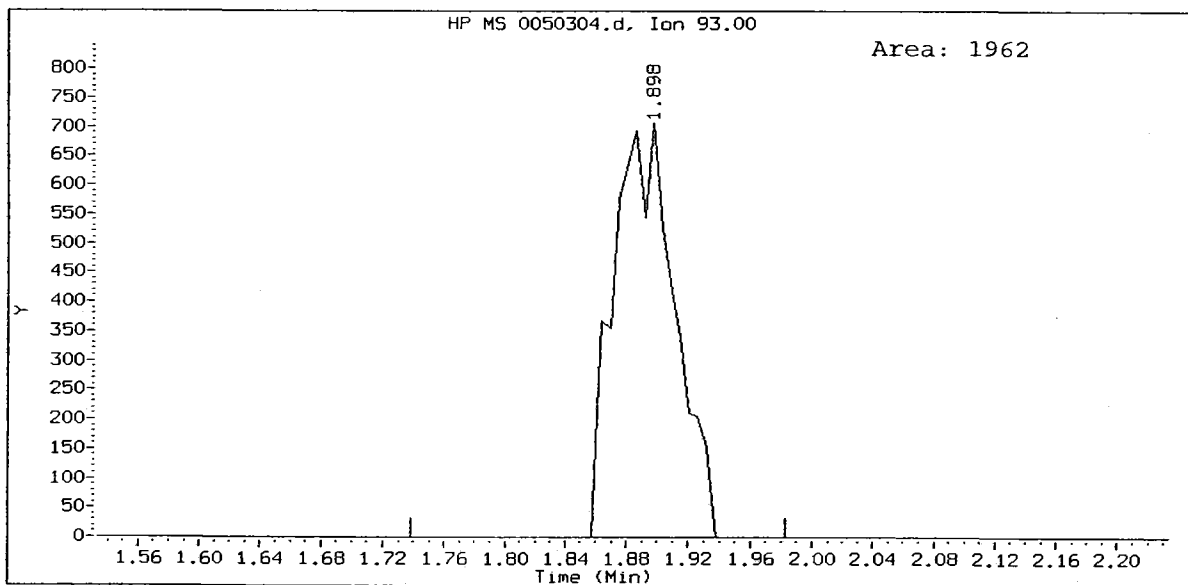
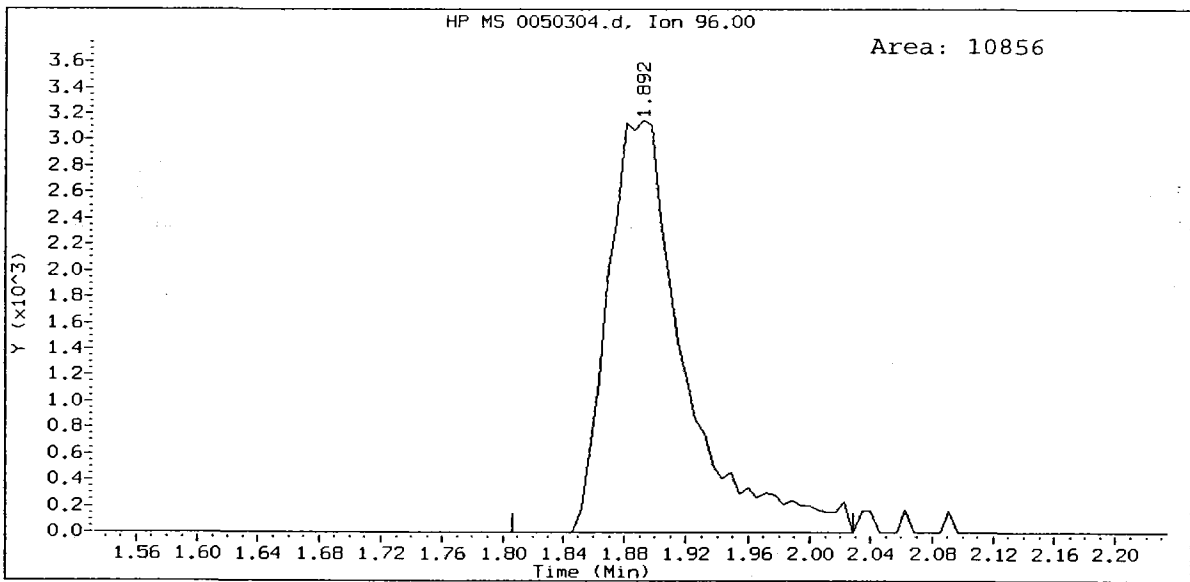
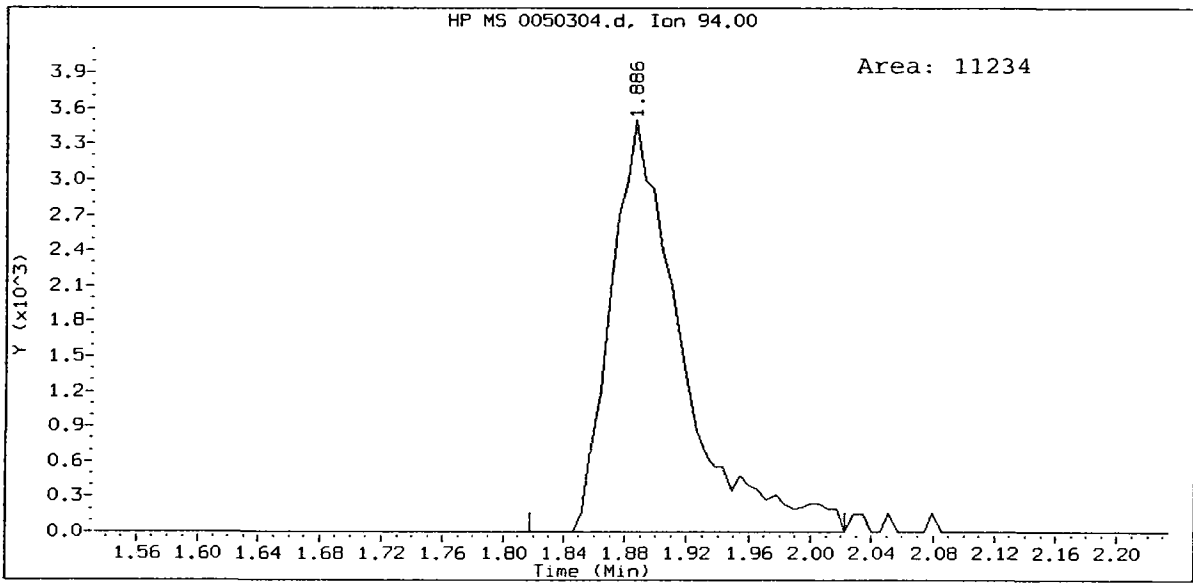
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

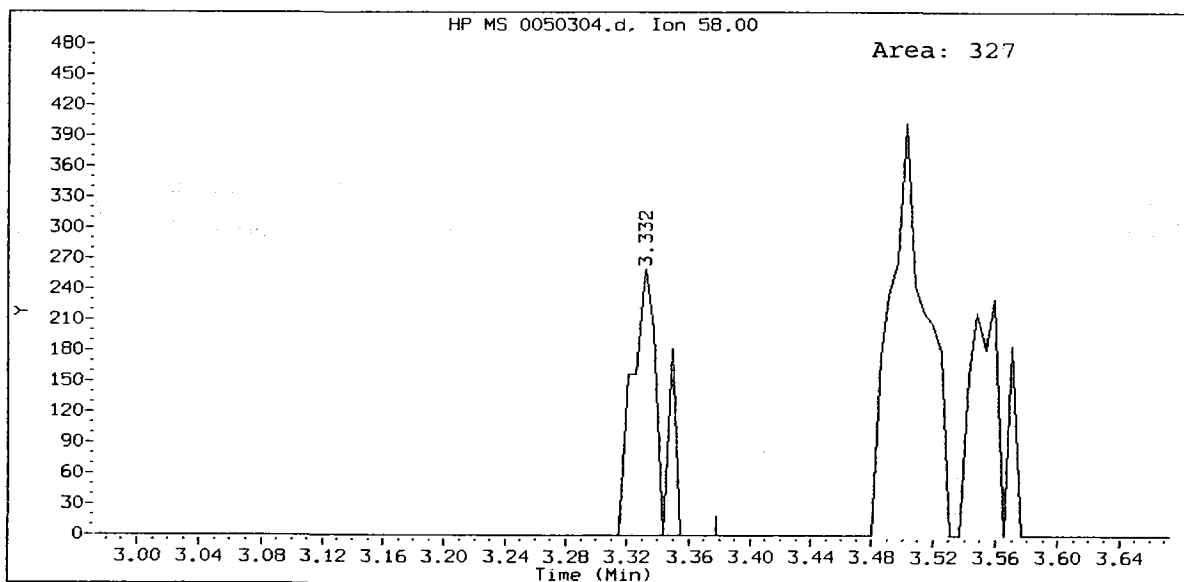
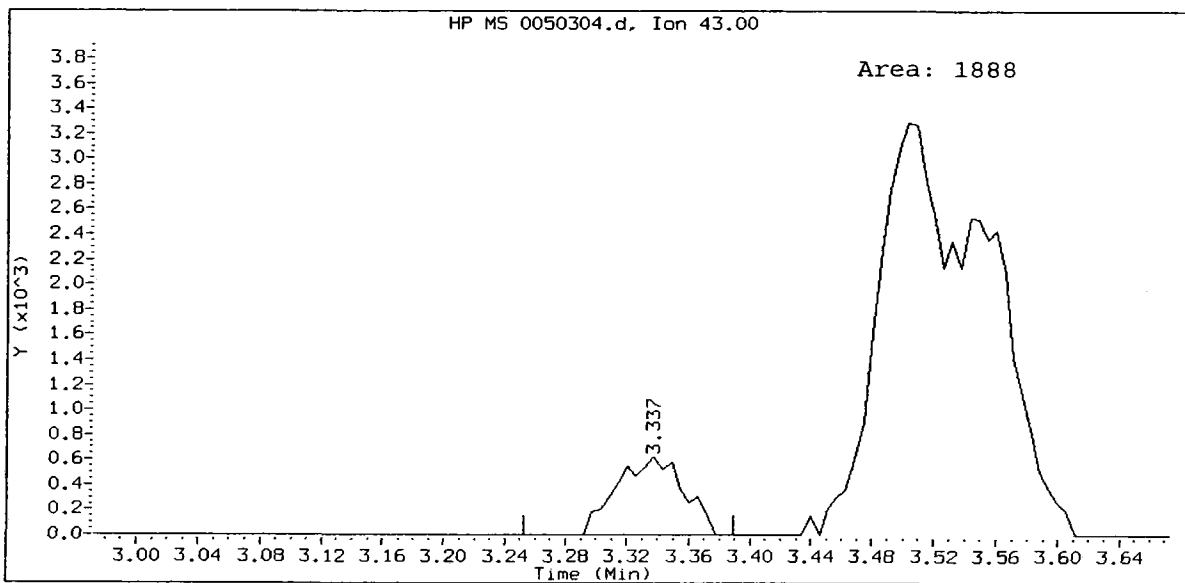




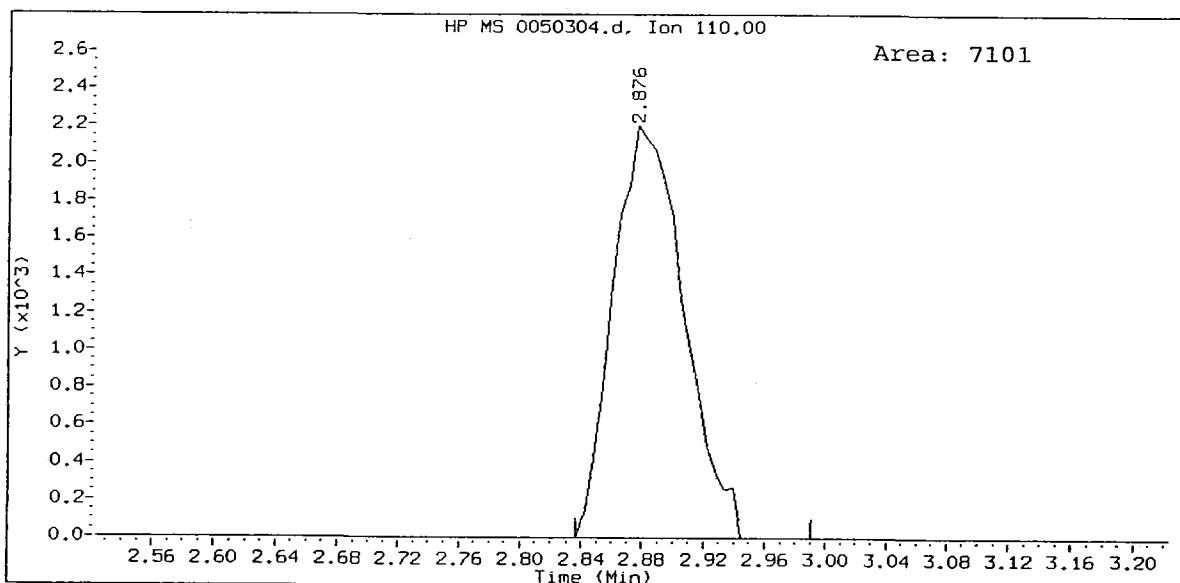
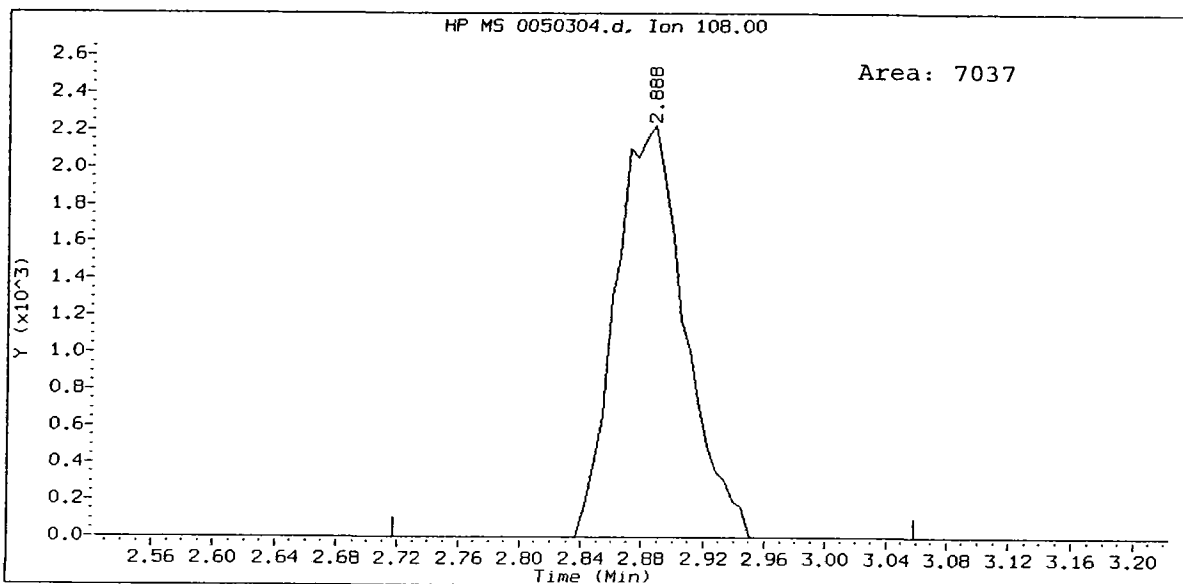
IC005, /chem1/nt10.i/04MAR10a.b/0050304.d
Bromomethane Amount: 0.54



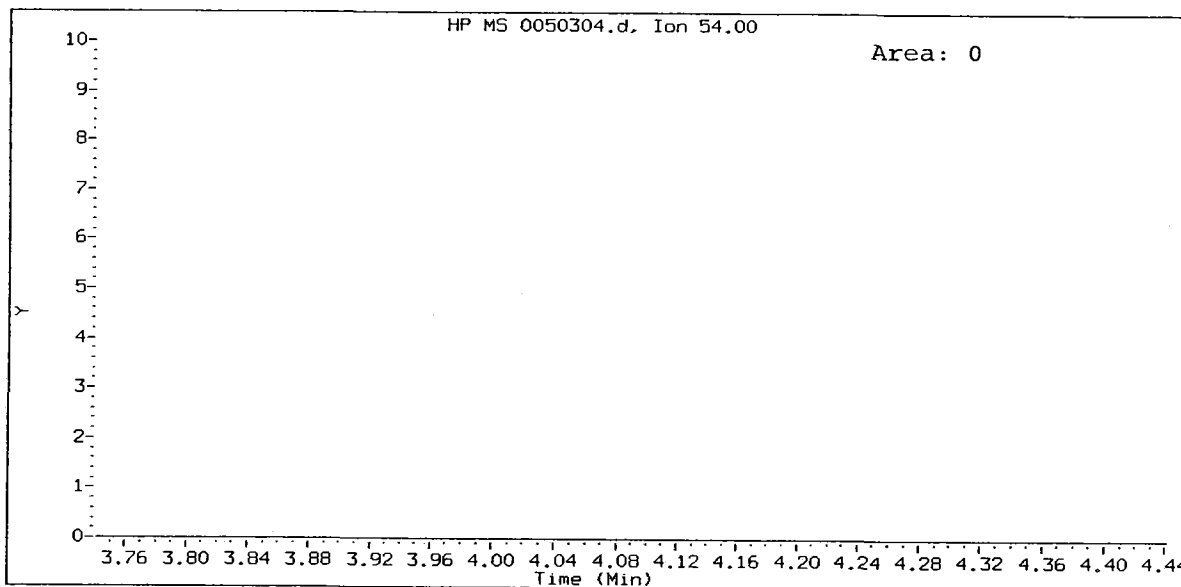
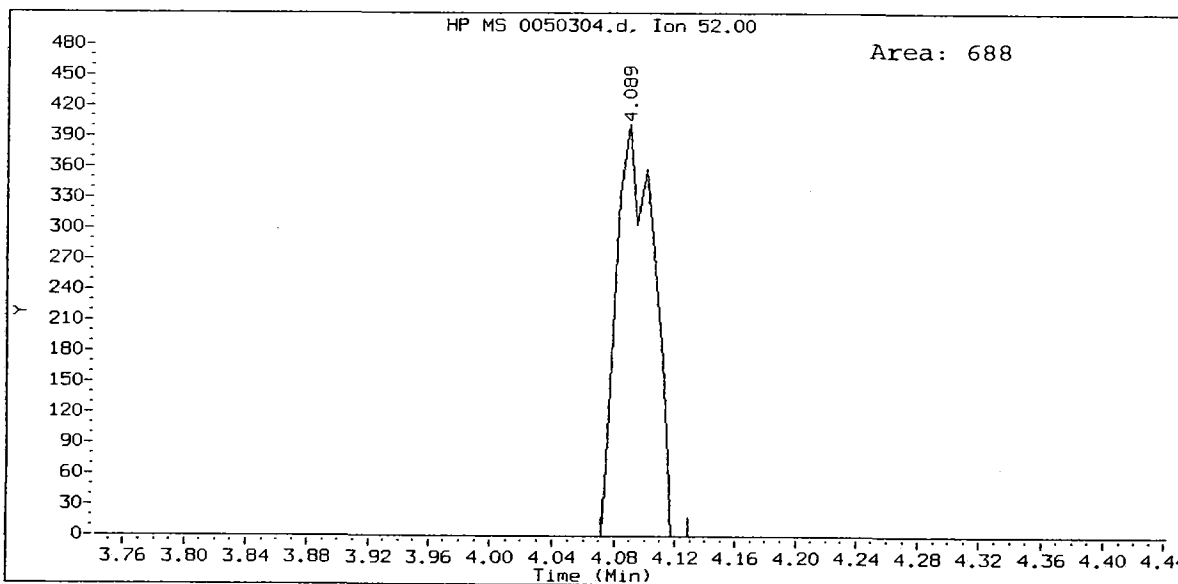
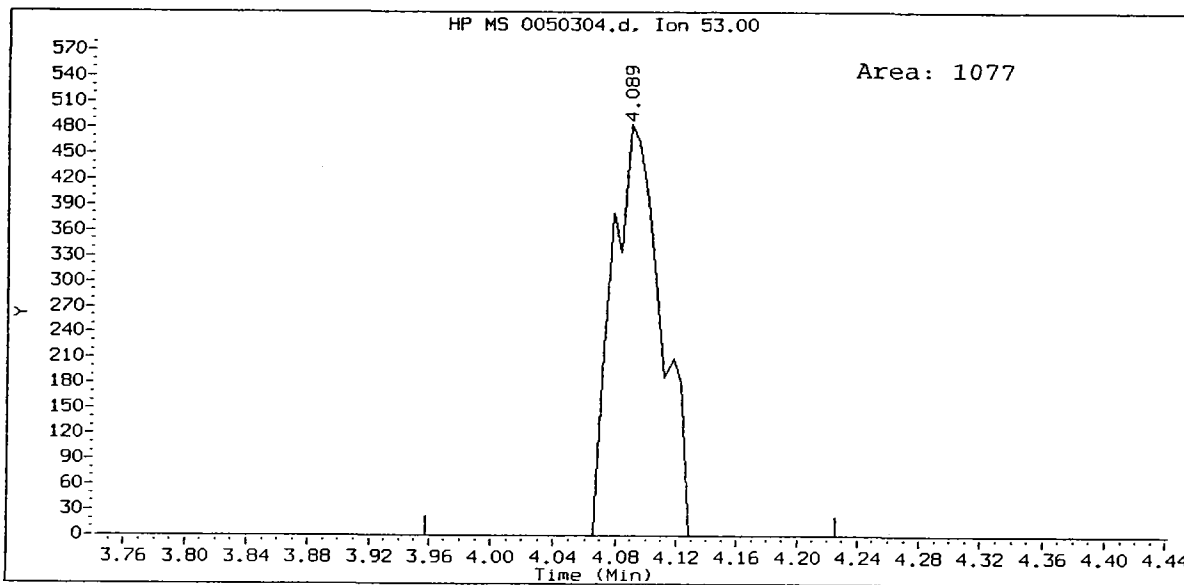
QN31 : 00161

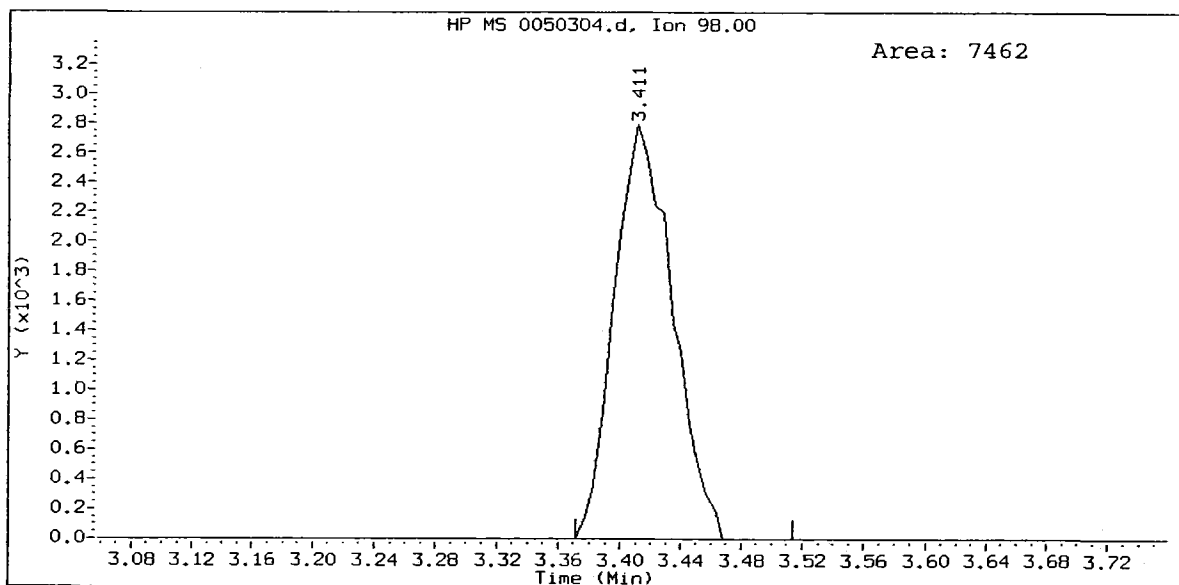
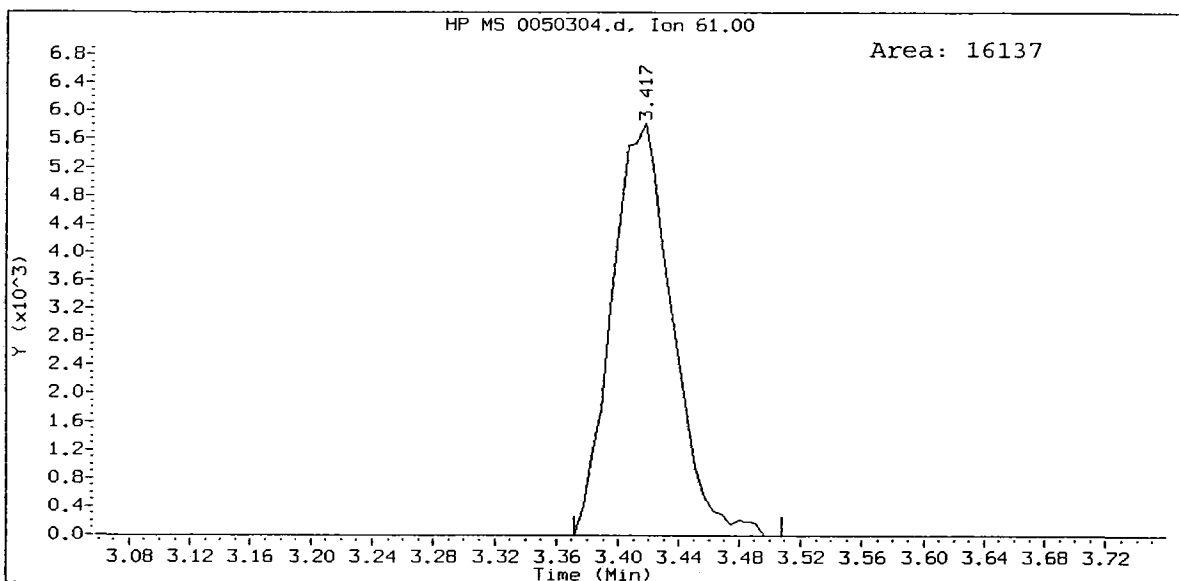
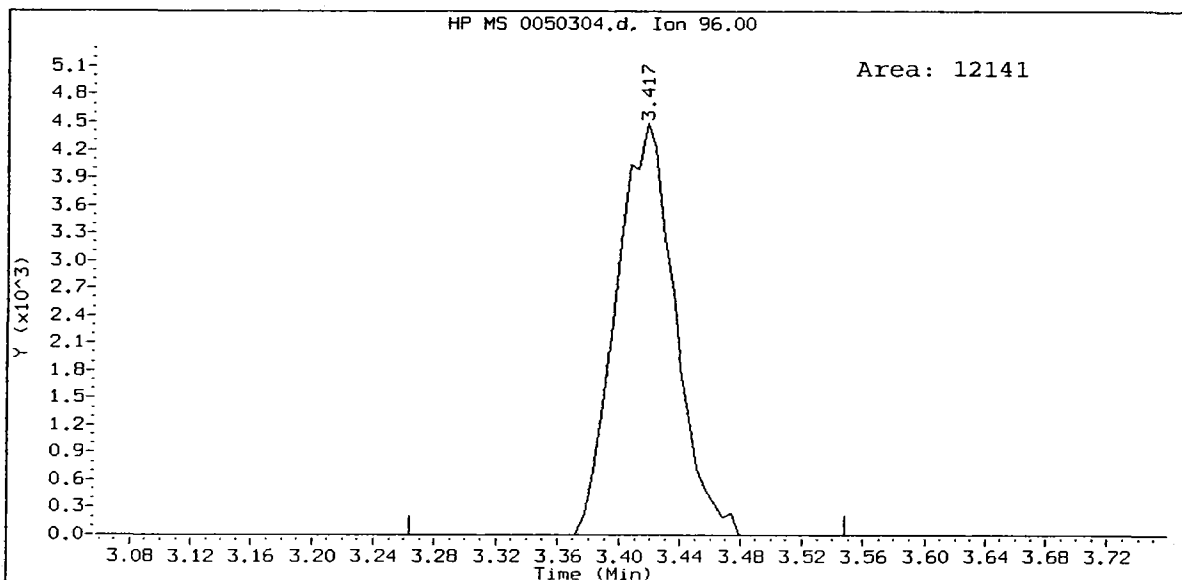


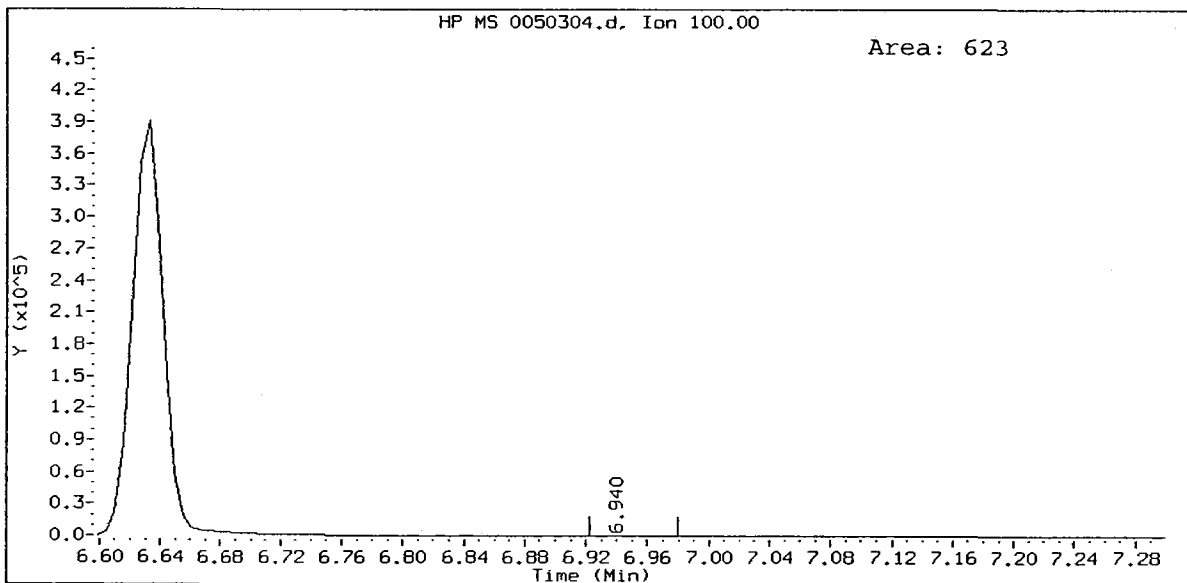
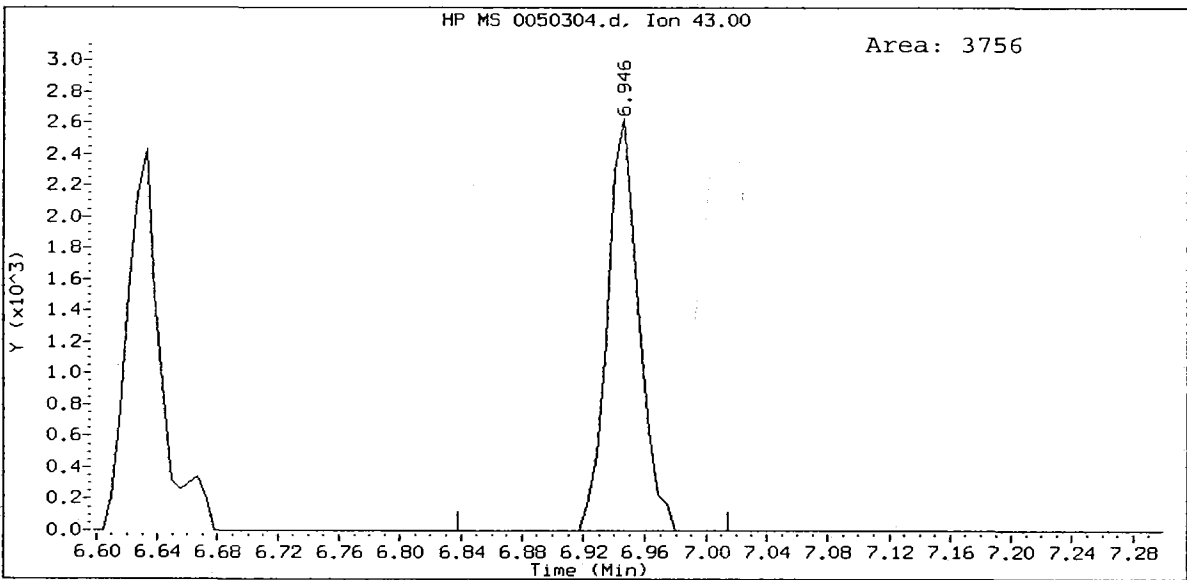
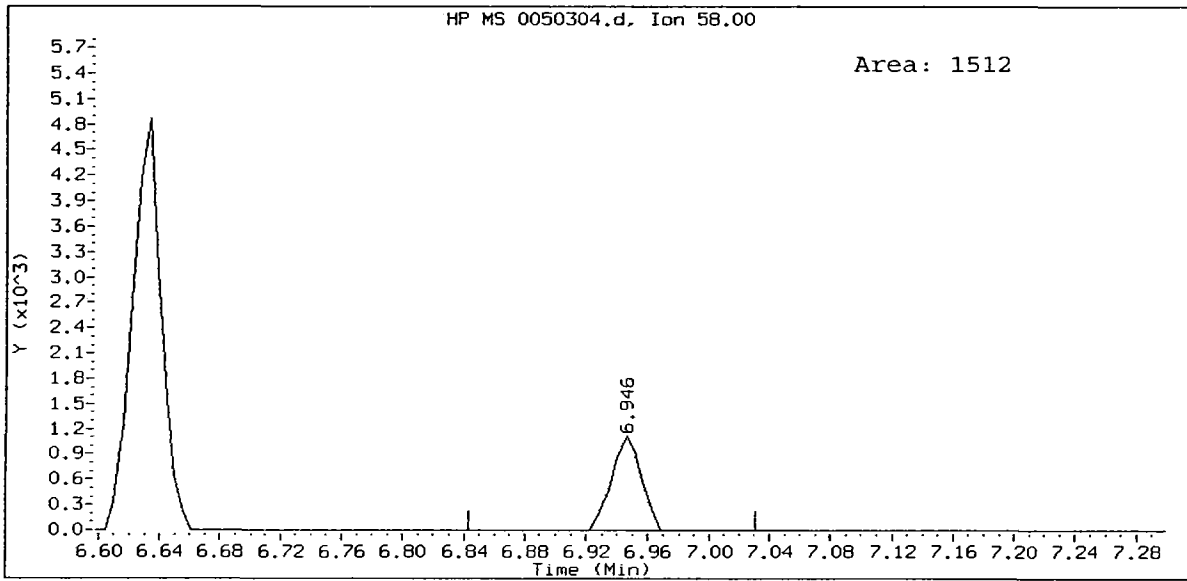
IC005, /chem1/nt10.i/04MAR10a.b/0050304.d
Bromoethane Amount: 0.50



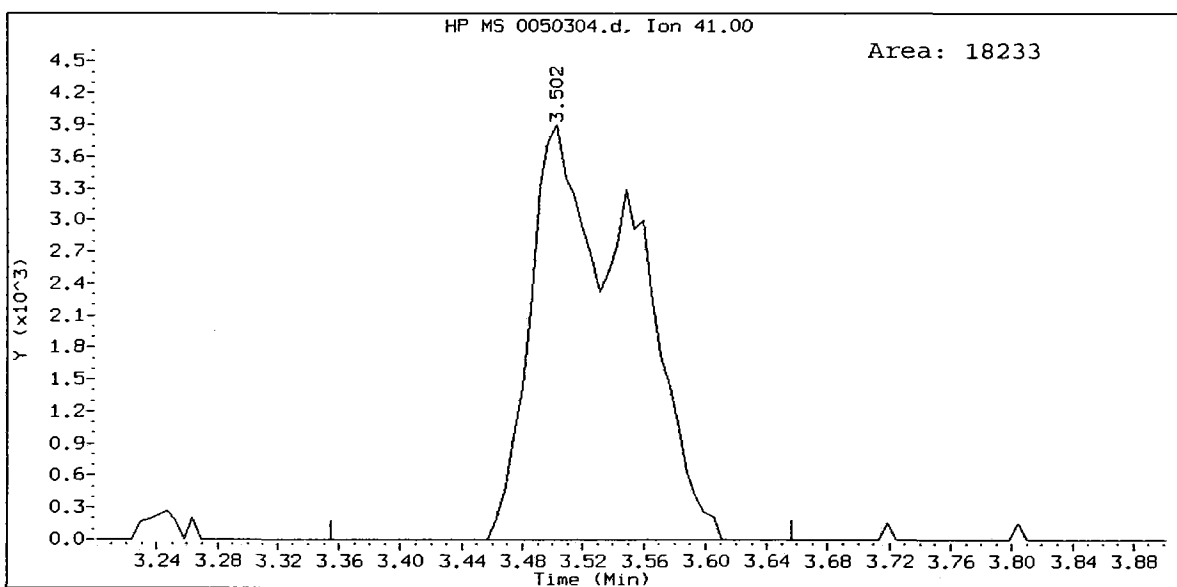
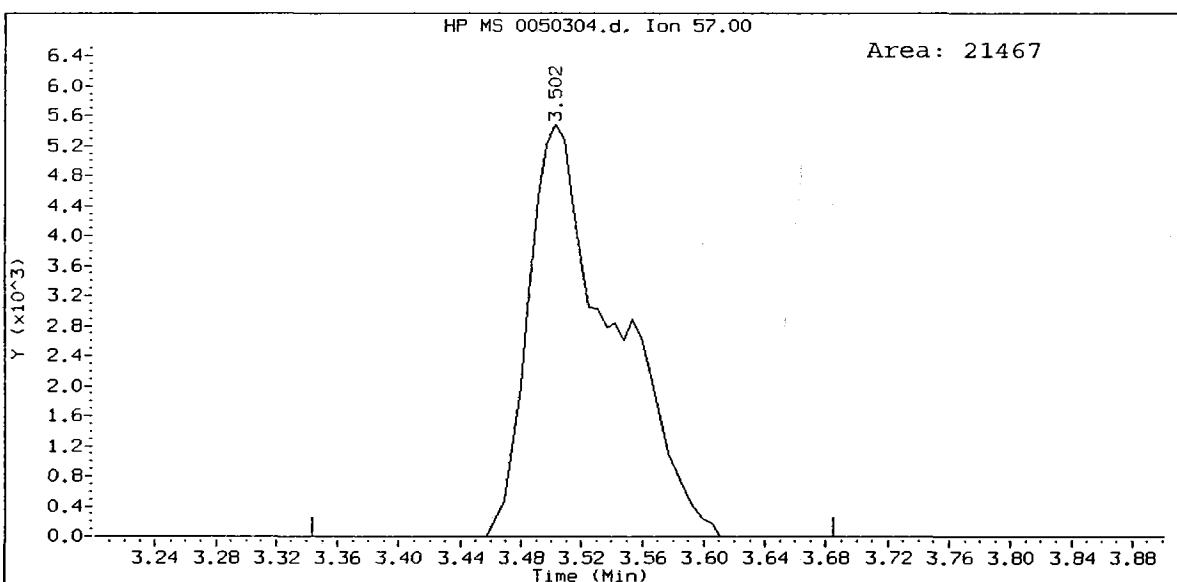
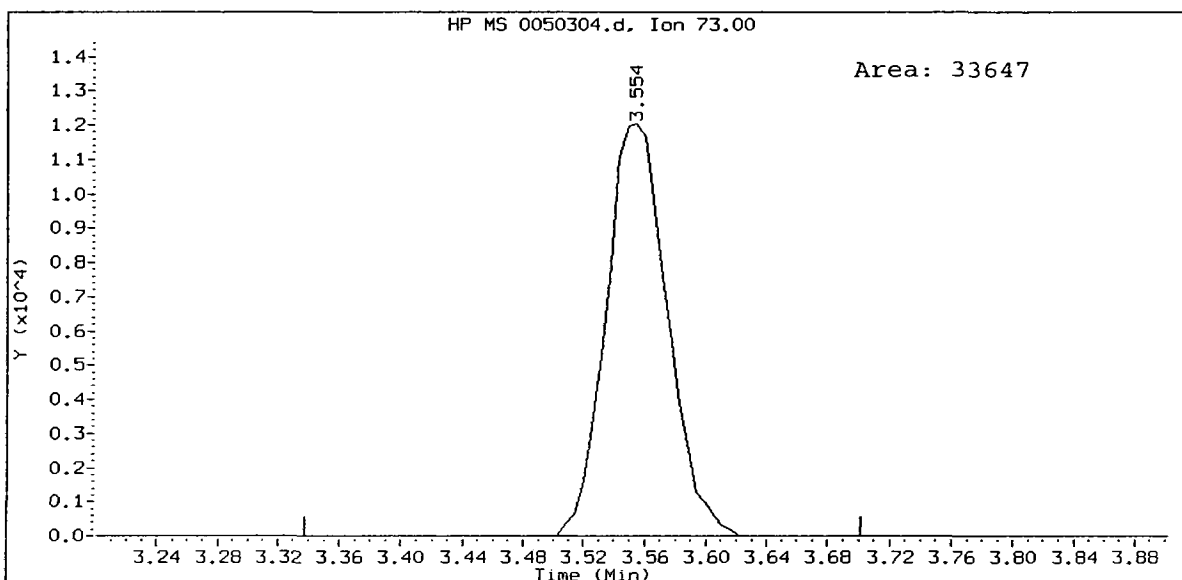
QN31 : 00153







IC005, /chem1/nt10.i/04MAR10a.b/0050304.d
Methyl tert butyl ether Amount: 1.05



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/0100304.d
 Lab Smp Id: IC010 Client Smp ID: vstd4
 Inj Date : 04-MAR-2010 23:18
 Operator : ar Inst ID: nt10.i
 Smp Info : IC010,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 23:18 Cal File: 0100304.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.380 | (0.262) | 16689 | 1.00000 | 1.041 |
| 2 Chloromethane | 50 | 1.533 | 1.539 | (0.291) | 21287 | 1.00000 | 1.165(M) |
| 3 Vinyl Chloride | 62 | 1.602 | 1.602 | (0.304) | 24228 | 1.00000 | 1.038 |
| 4 Bromomethane | 94 | 1.886 | 1.881 | (0.358) | 33199 | 1.00000 | 1.566(M) |
| 5 Chloroethane | 64 | 1.989 | 2.000 | (0.378) | 17989 | 1.00000 | 0.9852 |
| 6 Trichlorofluoromethane | 101 | 2.120 | 2.120 | (0.402) | 33451 | 1.00000 | 1.025 |
| 8 Acrolein | 56 | 2.990 | 2.990 | (0.568) | 541 | 1.00000 | 1.031 |
| 9 112Trichlorol22Trifluoroethane | 101 | 2.660 | 2.660 | (0.505) | 20496 | 1.00000 | 1.036 |
| 10 Acetone | 43 | 3.315 | 3.326 | (0.629) | 3535 | 1.00000 | 1.437(M) |
| 11 1,1-Dichloroethene | 96 | 2.603 | 2.603 | (0.494) | 25243 | 1.00000 | 1.037 |
| 12 Bromoethane | 108 | 2.871 | 2.876 | (0.545) | 15144 | 1.00000 | 1.056 |
| 13 Iodomethane | 142 | 2.740 | 2.740 | (0.520) | 39288 | 1.00000 | 1.373(M) |
| 14 Methylene Chloride | 84 | 3.246 | 3.246 | (0.616) | 25662 | 1.00000 | 1.174(M) |
| 15 Acrylonitrile | 53 | 4.083 | 4.089 | (0.775) | 2157 | 1.00000 | 0.8994(T) |
| 16 Methyl tert butyl ether | 73 | 3.542 | 3.548 | (0.673) | 66251 | 2.00000 | 2.049 |
| 17 Carbon Disulfide | 76 | 2.603 | 2.609 | (0.494) | 71458 | 1.00000 | 0.9663 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.411 | (0.647) | 23983 | 1.00000 | 0.9941 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.813) | 14119 | 1.00000 | 0.9276 |
| 21 1,1-Dichloroethane | 63 | 4.015 | 4.020 | (0.762) | 39152 | 1.00000 | 0.9997 |
| 22 2-Butanone | 72 | 4.982 | 4.988 | (0.946) | 2368 | 1.00000 | 0.9481 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.870) | 11428 | 1.00000 | 0.9047 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.493 | 4.498 | (0.853) | 24682 | 1.00000 | 0.9655 |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.272 | (1.000) | 423621 | 10.0000 | 10.0000 |
| 26 Chloroform | 83 | 4.732 | 4.737 | (0.898) | 40611 | 1.00000 | 0.9861 |
| 27 Bromochloromethane | 128 | 4.658 | 4.663 | (0.884) | 17241 | 2.00000 | 1.773 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 175601 | 10.0000 | 9.814 |
| 29 1,1,1-Trichloroethane | 97 | 4.880 | 4.885 | (0.927) | 32178 | 1.00000 | 0.9835 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 35144 | 1.00000 | 0.9749 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.853) | 24429 | 1.00000 | 0.9238 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.004) | 159371 | 10.0000 | 10.041 |
| 33 1,2-Dichloroethane | 62 | 5.335 | 5.341 | (0.944) | 21651 | 1.00000 | 1.002 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 97558 | 1.00000 | 0.9737 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.659 | (1.000) | 680717 | 10.0000 | 10.0000 |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 25000 | 1.00000 | 0.9433 |
| 37 1,2-Dichloropropane | 63 | 6.001 | 6.007 | (1.061) | 20751 | 1.00000 | 0.9673 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 26879 | 1.00000 | 0.9725 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 8442 | 1.00000 | 0.9744 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.144) | 5804 | 1.00000 | 0.9436 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.228) | 3108 | 1.00000 | 0.9198 (T) |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 26587 | 1.00000 | 0.9198 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 852429 | 10.0000 | 10.037 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 66090 | 1.00000 | 0.9761 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 18548 | 1.00000 | 0.8722 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 4972 | 1.00000 | 0.9648 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.252) | 12583 | 1.00000 | 0.9705 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 23061 | 1.00000 | 0.9669 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 26855 | 1.00000 | 0.9461 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 14823 | 1.00000 | 0.9198 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 10699 | 1.00000 | 0.9350 |
| 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 618251 | 10.0000 | 10.0000 |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 67178 | 1.00000 | 0.9550 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 128031 | 1.00000 | 0.9688 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 19957 | 1.00000 | 0.9675 |
| 56 m,p-xylene | 106 | 7.851 | 7.850 | (1.017) | 95425 | 2.00000 | 1.926 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 44346 | 1.00000 | 0.9866 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 64702 | 1.00000 | 0.9525 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 120999 | 1.00000 | 1.016 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 6326 | 1.00000 | 0.8850 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.733 | (0.929) | 10491 | 1.00000 | 1.030 |
| 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 247768 | 10.0000 | 10.110 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 2971 | 1.00000 | 0.9585 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 1456 | 1.00000 | 0.7783 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 137635 | 1.00000 | 1.008 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.921) | 22066 | 1.00000 | 0.9787 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 91445 | 1.00000 | 1.035 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 87431 | 1.00000 | 1.025 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 74068 | 1.00000 | 1.007 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 79527 | 1.00000 | 1.071 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 86965 | 1.00000 | 1.041 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 116603 | 1.00000 | 1.061 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 88257 | 1.00000 | 1.052 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.995) | 39648 | 1.00000 | 1.014 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.410 | (1.000) | 216964 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.416 | 9.421 | (1.001) | 37392 | 1.00000 | 1.015 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 73049 | 1.00000 | 1.021 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.035) | 171812 | 10.0000 | 10.165 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.036) | 29774 | 1.00000 | 1.019 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.355 | (1.101) | 961 | 1.00000 | 1.006 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.157) | 13297 | 1.00000 | 1.004 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 9875 | 1.00000 | 1.180 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.185) | 20394 | 1.00000 | 1.116 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.200) | 10476 | 1.00000 | 1.126 |

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0100304.d
 Lab Smp Id: IC010
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd4
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 423621 | -8.27 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 680717 | -8.77 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 618251 | -7.13 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 216964 | -7.94 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10a.b/0100304.d

Date: 04-MAR-2010 23:18

Client ID: vstd4

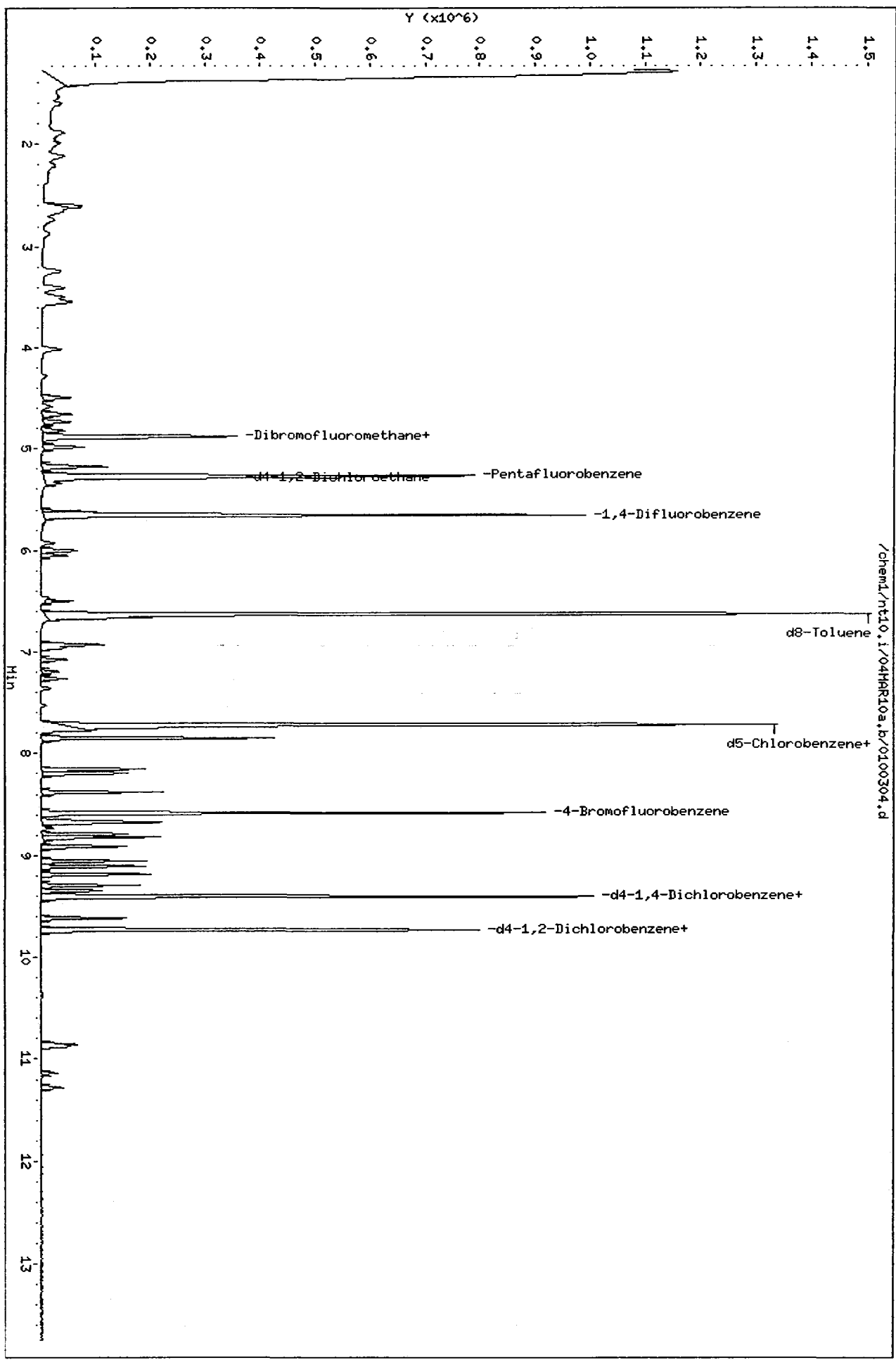
Sample Info: IC010,10,10,0

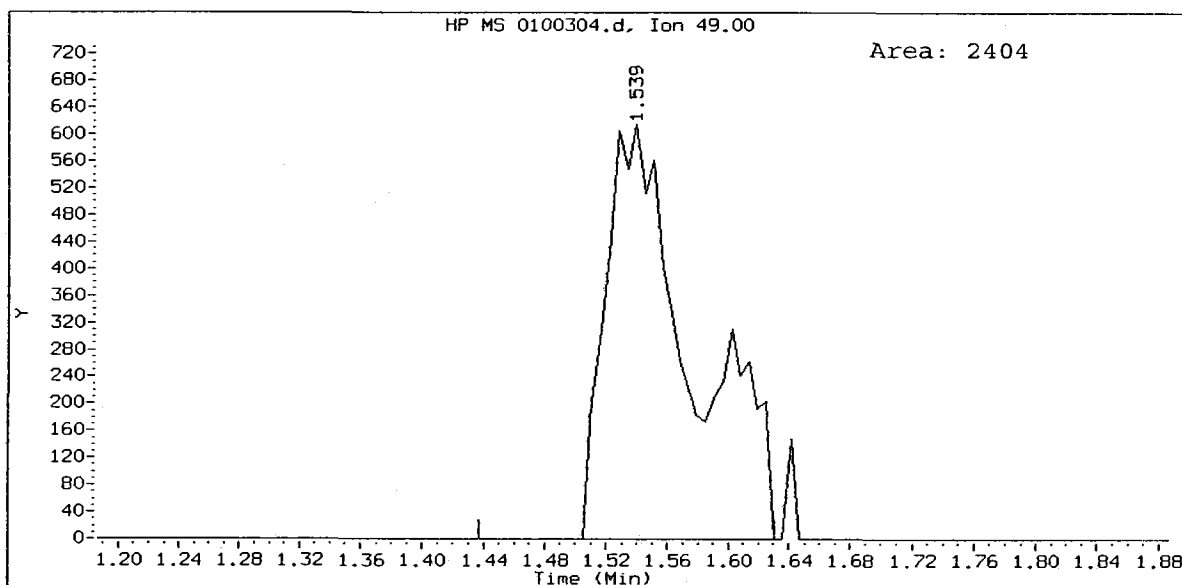
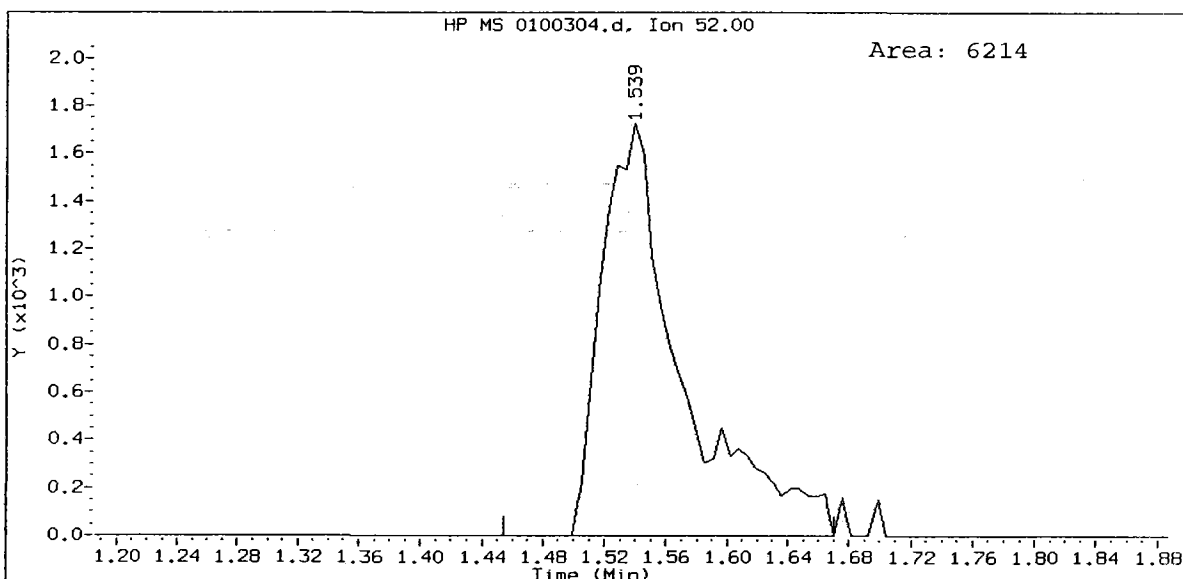
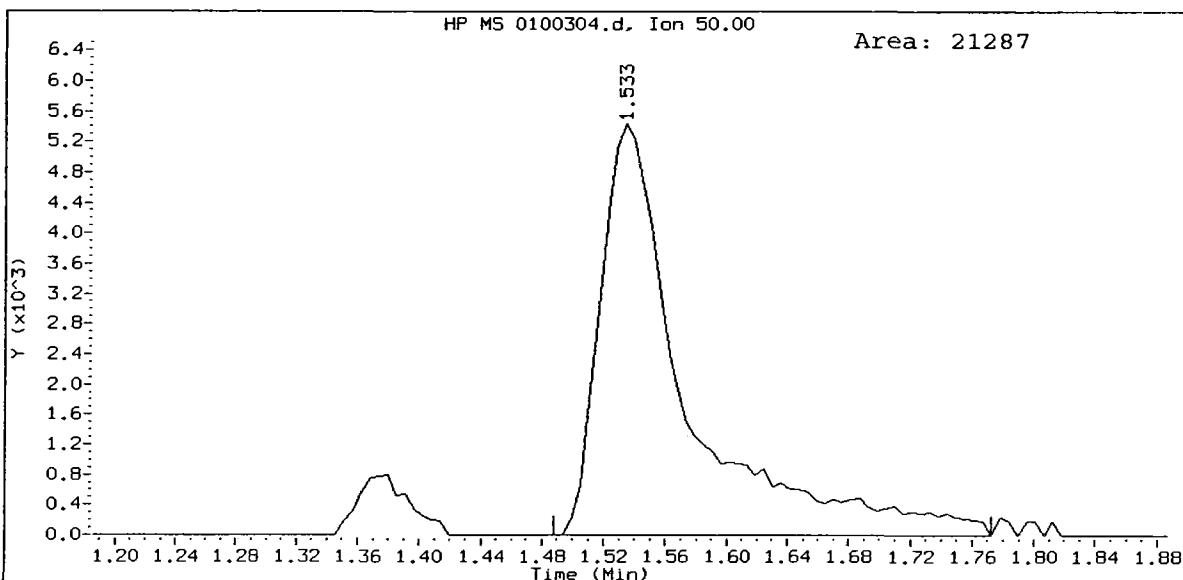
Column phase: RTX502.2

Instrument: nt10.i

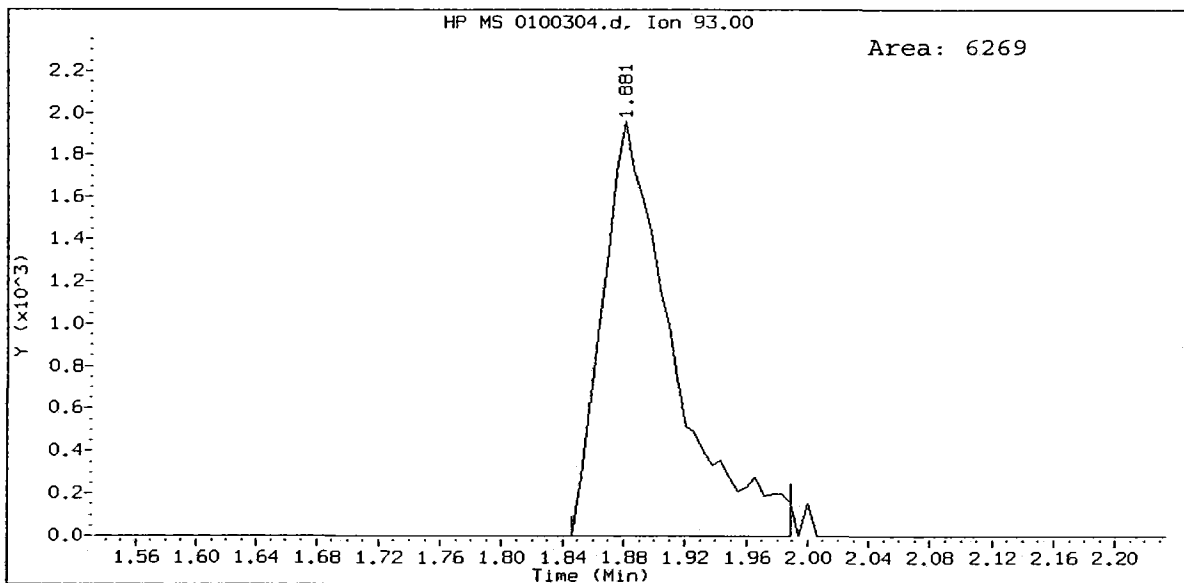
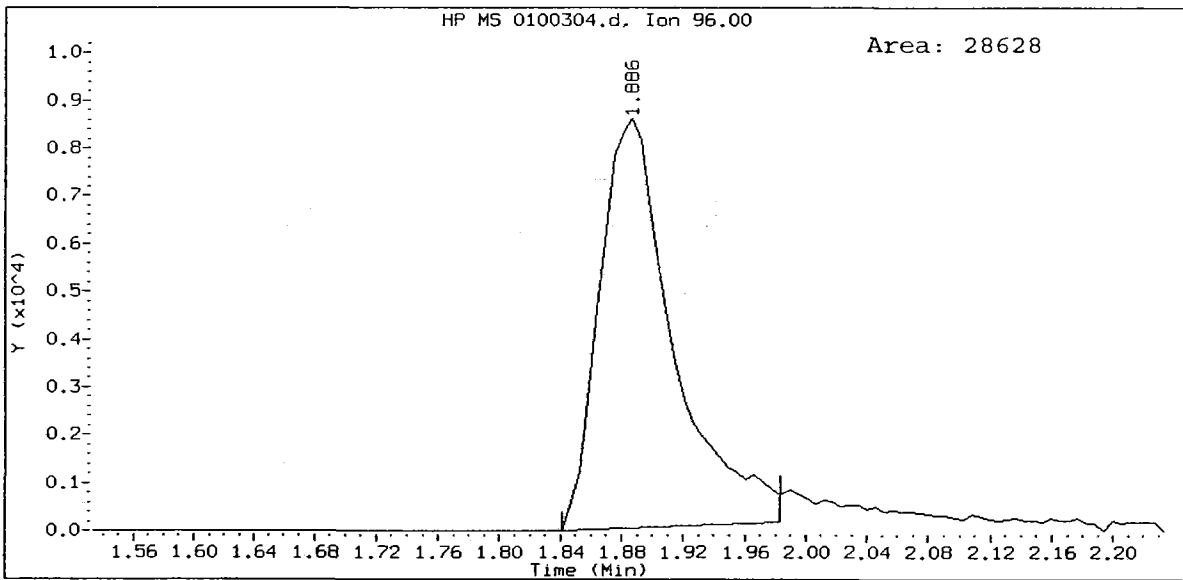
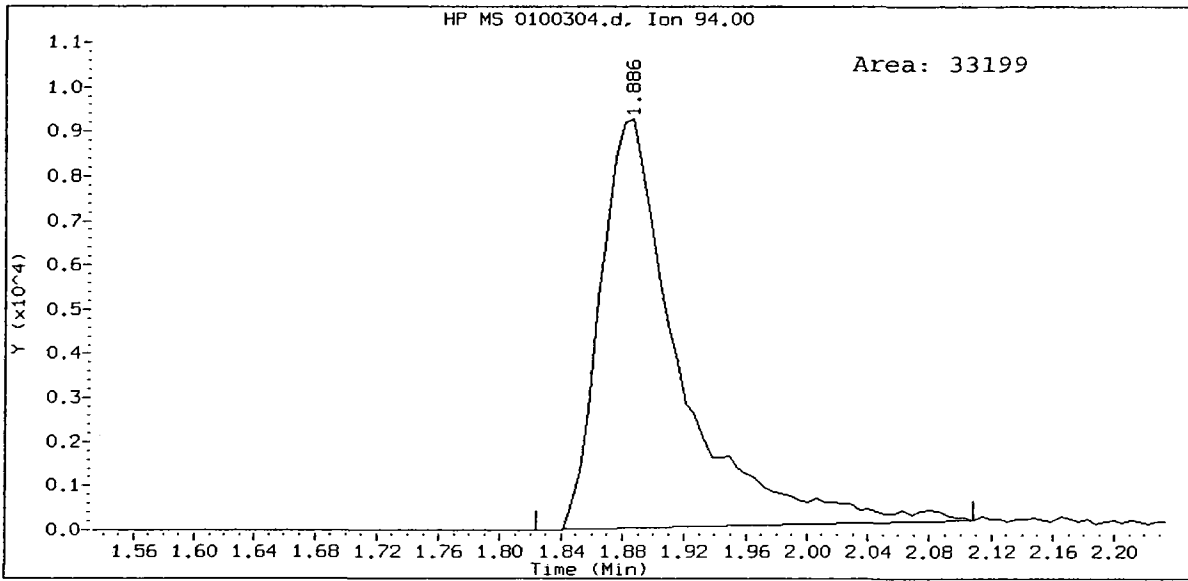
Operator: ar

Column diameter: 0.18



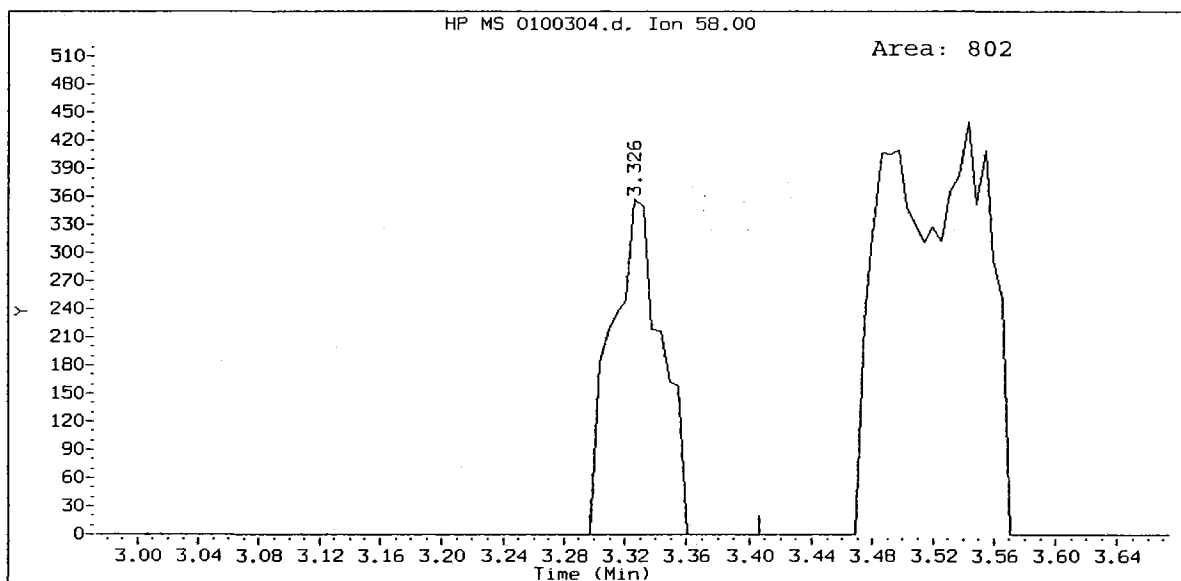
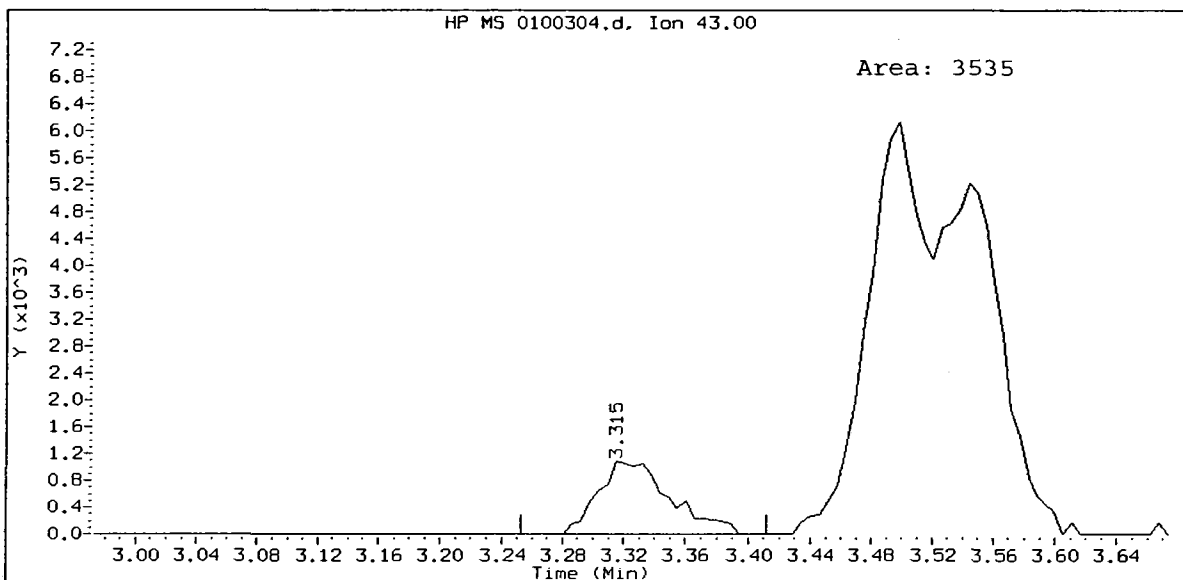


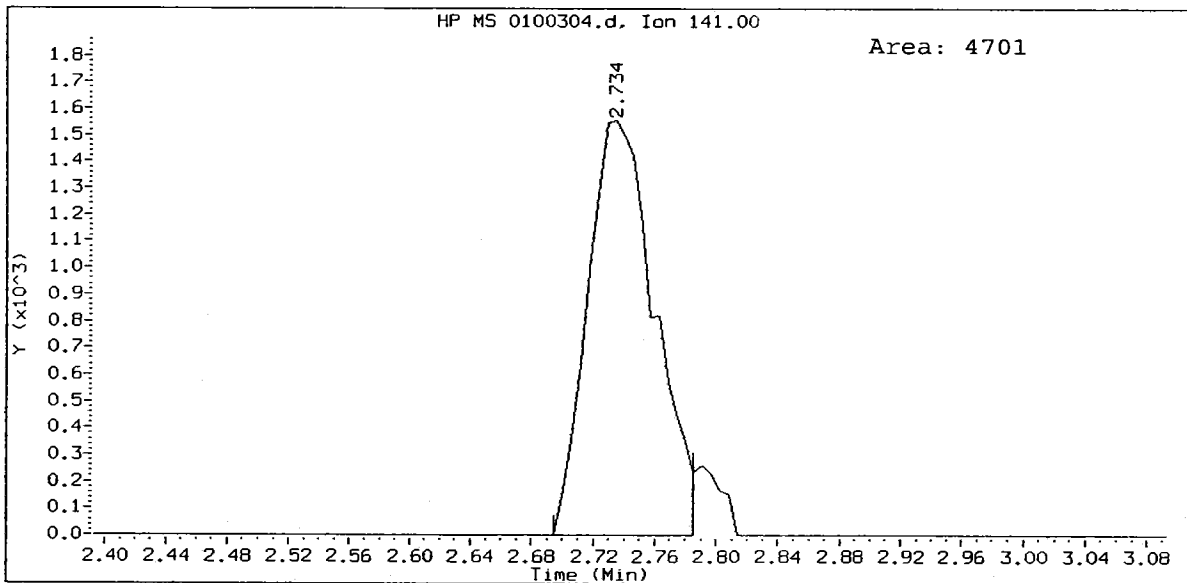
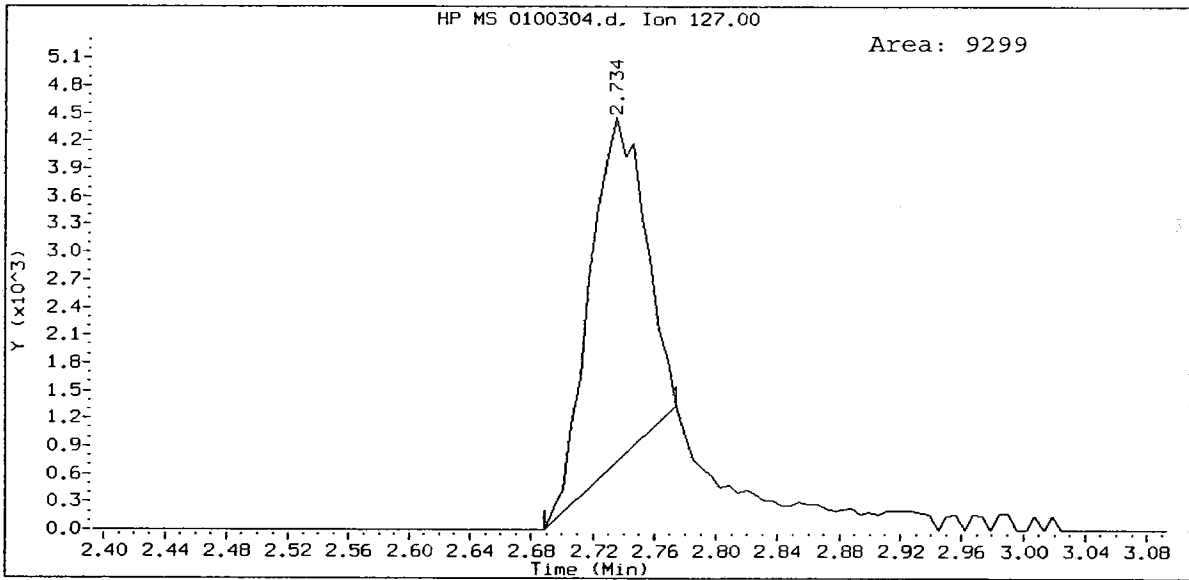
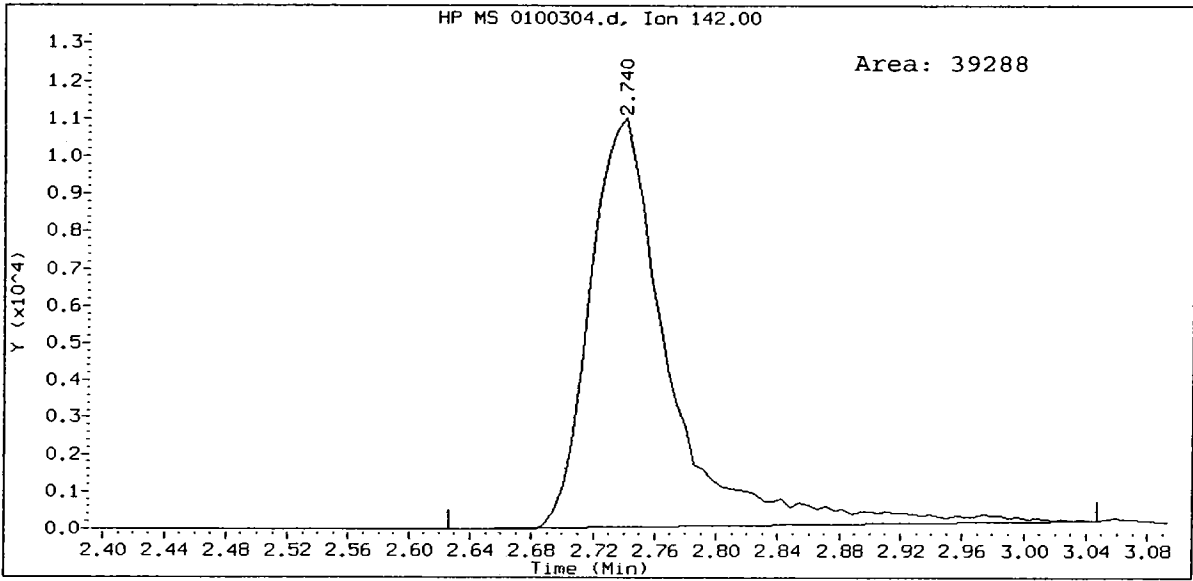
IC010, /chem1/nt10.i/04MAR10a.b/0100304.d
Bromomethane Amount: 1.57

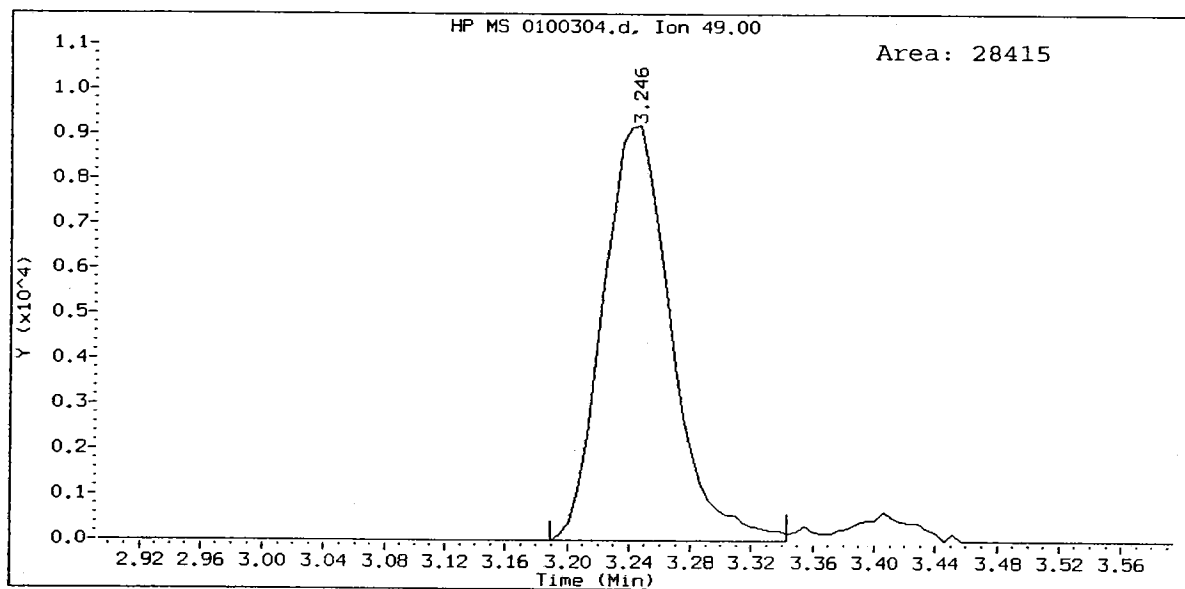
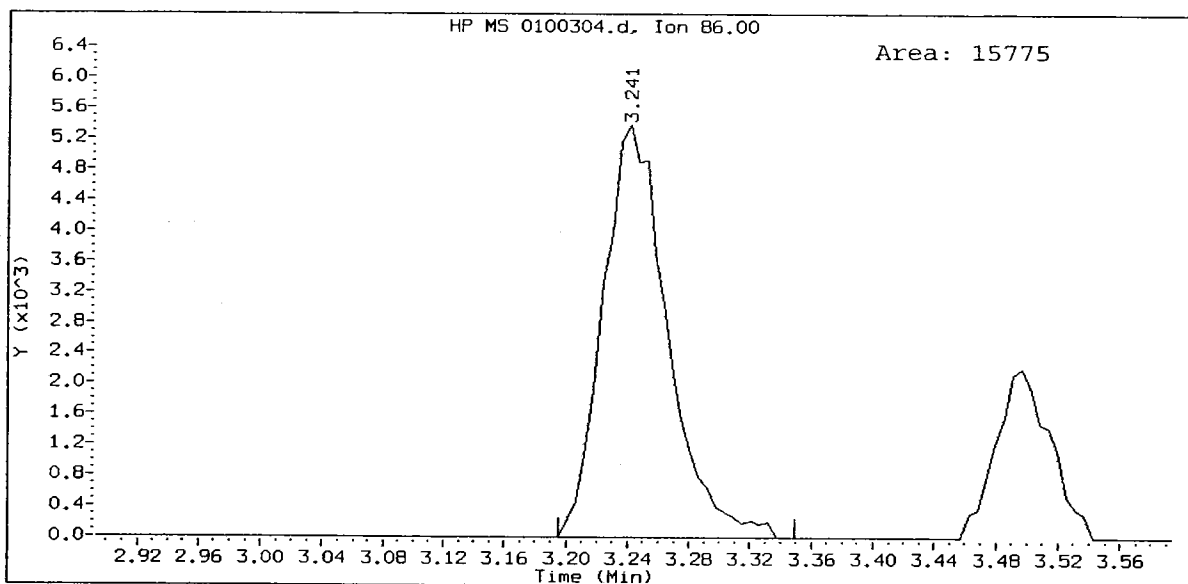
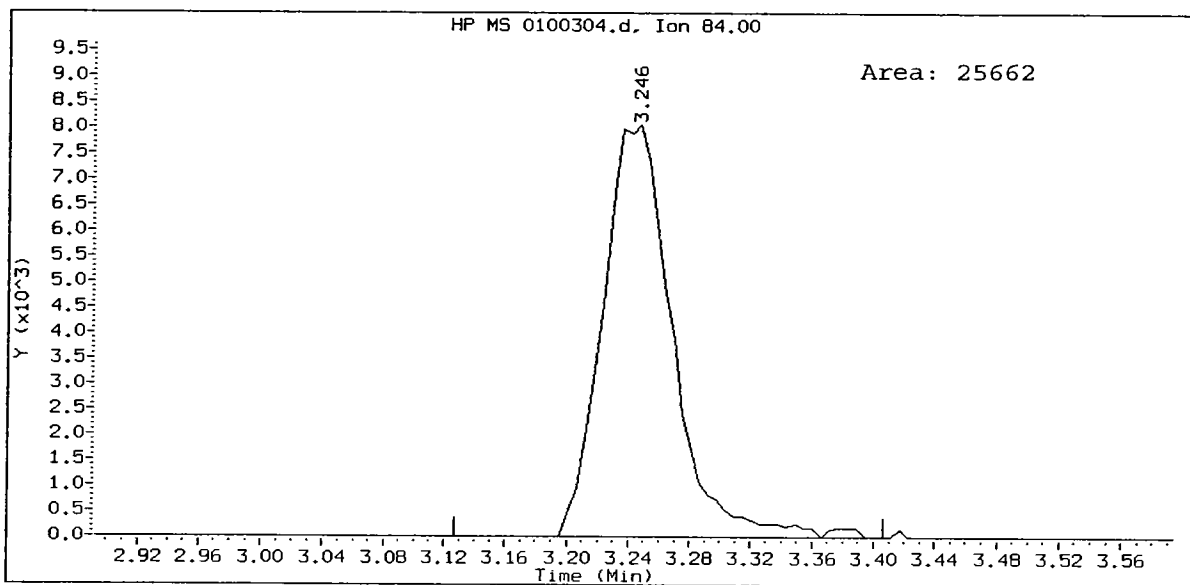


QN31 : 00174

Acetone Amount: 1.44







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/0400304.d
 Lab Smp Id: IC040 Client Smp ID: vstd5
 Inj Date : 04-MAR-2010 22:48
 Operator : ar Inst ID: nt10.i
 Smp Info : IC040,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 22:48 Cal File: 0400304.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|-------|-------|---------|--------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.380 | (0.262) | 56986 | 4.00000 | 3.261 | |
| 2 Chloromethane | 50 | 1.539 | 1.539 | (0.292) | 68605 | 4.00000 | 3.444 | |
| 3 Vinyl Chloride | 62 | 1.607 | 1.602 | (0.305) | 88254 | 4.00000 | 3.469 | |
| 4 Bromomethane | 94 | 1.886 | 1.881 | (0.358) | 80685 | 4.00000 | 3.472 (M) | |
| 5 Chloroethane | 64 | 2.000 | 2.000 | (0.379) | 66858 | 4.00000 | 3.359 | |
| 6 Trichlorofluoromethane | 101 | 2.125 | 2.120 | (0.403) | 128345 | 4.00000 | 3.609 | |
| 8 Acrolein | 56 | 2.996 | 2.990 | (0.568) | 2189 | 4.00000 | 3.681 (M) | |
| 9 112Trichloro122Trifluoroethane | 101 | 2.660 | 2.660 | (0.505) | 76176 | 4.00000 | 3.532 | |
| 10 Acetone | 43 | 3.332 | 3.326 | (0.632) | 10137 | 4.00000 | 3.778 | |
| 11 1,1-Dichloroethene | 96 | 2.609 | 2.603 | (0.495) | 96347 | 4.00000 | 3.629 | |
| 12 Bromoethane | 108 | 2.877 | 2.876 | (0.546) | 60095 | 4.00000 | 3.846 | |
| 13 Iodomethane | 142 | 2.740 | 2.740 | (0.520) | 118944 | 4.00000 | 3.814 | |
| 14 Methylene Chloride | 84 | 3.247 | 3.246 | (0.616) | 81938 | 4.00000 | 3.439 | |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 9783 | 4.00000 | 3.742 | |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.673) | 282148 | 8.00000 | 8.004 | |
| 17 Carbon Disulfide | 76 | 2.609 | 2.609 | (0.495) | 288989 | 4.00000 | 3.585 | |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.412 | 3.411 | (0.647) | 95780 | 4.00000 | 3.642 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 65155 | 4.00000 | 3.927 |
| 21 1,1-Dichloroethane | 63 | 4.021 | 4.020 | (0.763) | 165155 | 4.00000 | 3.868 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.946) | 10346 | 4.00000 | 3.800 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 52619 | 4.00000 | 3.821 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.499 | 4.498 | (0.853) | 105390 | 4.00000 | 3.782 |
| * 25 Pentafluorobenzene | 168 | 5.273 | 5.272 | (1.000) | 461804 | 10.0000 | |
| 26 Chloroform | 83 | 4.738 | 4.737 | (0.899) | 173706 | 4.00000 | 3.869 |
| 27 Bromochloromethane | 128 | 4.664 | 4.663 | (0.884) | 72902 | 8.00000 | 6.876 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 194002 | 10.0000 | 9.946 |
| 29 1,1,1-Trichloroethane | 97 | 4.886 | 4.885 | (0.927) | 134800 | 4.00000 | 3.780 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 150201 | 4.00000 | 3.801 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.853) | 112037 | 4.00000 | 3.865 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 178097 | 10.0000 | 10.293 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.945) | 90391 | 4.00000 | 3.818 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 421355 | 4.00000 | 3.837 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.659 | (1.000) | 746135 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 109114 | 4.00000 | 3.756 |
| 37 1,2-Dichloropropane | 63 | 6.001 | 6.007 | (1.061) | 90858 | 4.00000 | 3.864 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 116450 | 4.00000 | 3.844 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 36727 | 4.00000 | 3.867 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.144) | 26676 | 4.00000 | 3.956 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.228) | 12486 | 4.00000 | 3.371 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 122580 | 4.00000 | 3.869 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 939528 | 10.0000 | 10.093 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 287516 | 4.00000 | 3.874 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 89527 | 4.00000 | 3.841 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 20007 | 4.00000 | 3.605 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.252) | 55371 | 4.00000 | 3.896 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 101285 | 4.00000 | 3.944 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 117057 | 4.00000 | 3.830 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 68609 | 4.00000 | 3.954 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 49274 | 4.00000 | 3.929 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 665692 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 294674 | 4.00000 | 3.891 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 548588 | 4.00000 | 3.855 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 85856 | 4.00000 | 3.866 |
| 56 m,p-xylene | 106 | 7.851 | 7.850 | (1.017) | 412670 | 8.00000 | 7.735 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 186916 | 4.00000 | 3.862 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 285174 | 4.00000 | 3.899 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 502523 | 4.00000 | 3.886 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 30192 | 4.00000 | 3.889 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.733 | (0.929) | 42686 | 4.00000 | 3.859 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 271344 | 10.0000 | 10.283 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 13207 | 4.00000 | 3.923 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.864 | 8.869 | (0.942) | 7171 | 4.00000 | 3.529 |
| 66 N-Propyl Benzene | 91 | 8.676 | 8.681 | (0.923) | 574983 | 4.00000 | 3.875 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.921) | 94772 | 4.00000 | 3.870 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 378401 | 4.00000 | 3.944 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 359577 | 4.00000 | 3.882 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 311506 | 4.00000 | 3.900 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 315709 | 4.00000 | 3.914 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 358485 | 4.00000 | 3.951 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 469151 | 4.00000 | 3.929 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 356264 | 4.00000 | 3.911 |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.353 | (0.994) | 165251 | 4.00000 | 3.892 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.410 | (1.000) | 235664 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.416 | 9.421 | (1.001) | 154818 | 4.00000 | 3.867 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 296824 | 4.00000 | 3.820 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.035) | 182335 | 10.0000 | 9.931 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.036) | 123592 | 4.00000 | 3.895 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.355 | (1.101) | 4244 | 4.00000 | 4.090 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.157) | 57723 | 4.00000 | 4.012 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 38468 | 4.00000 | 4.232 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.185) | 84609 | 4.00000 | 4.262 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.200) | 43651 | 4.00000 | 4.321 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0400304.d
Lab Smp Id: IC040
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 22:19
Client Smp ID: vstd5
Level: LOW
Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

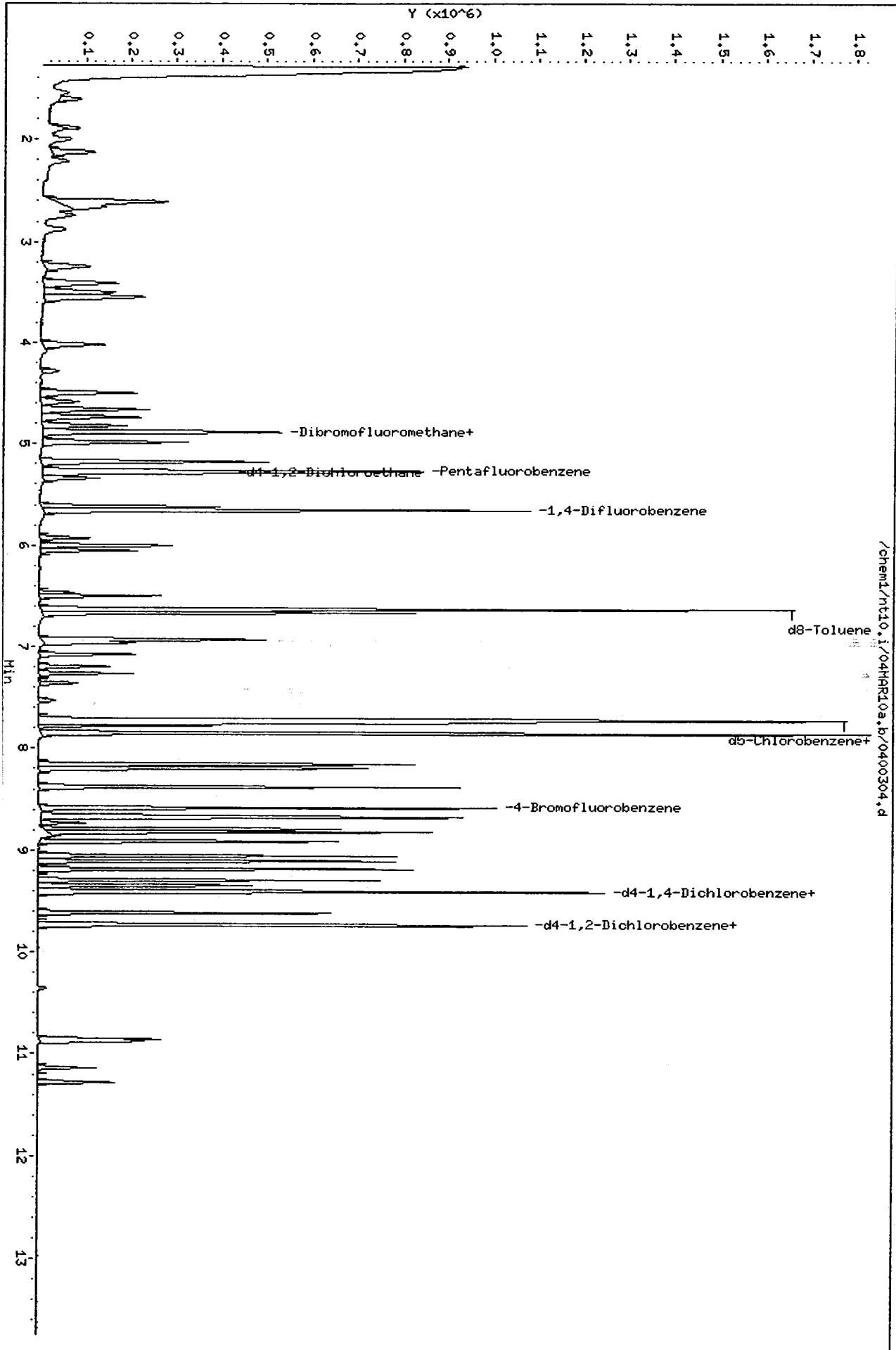
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 461804 | 0.00 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 746135 | 0.00 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 665692 | 0.00 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 235664 | 0.00 |

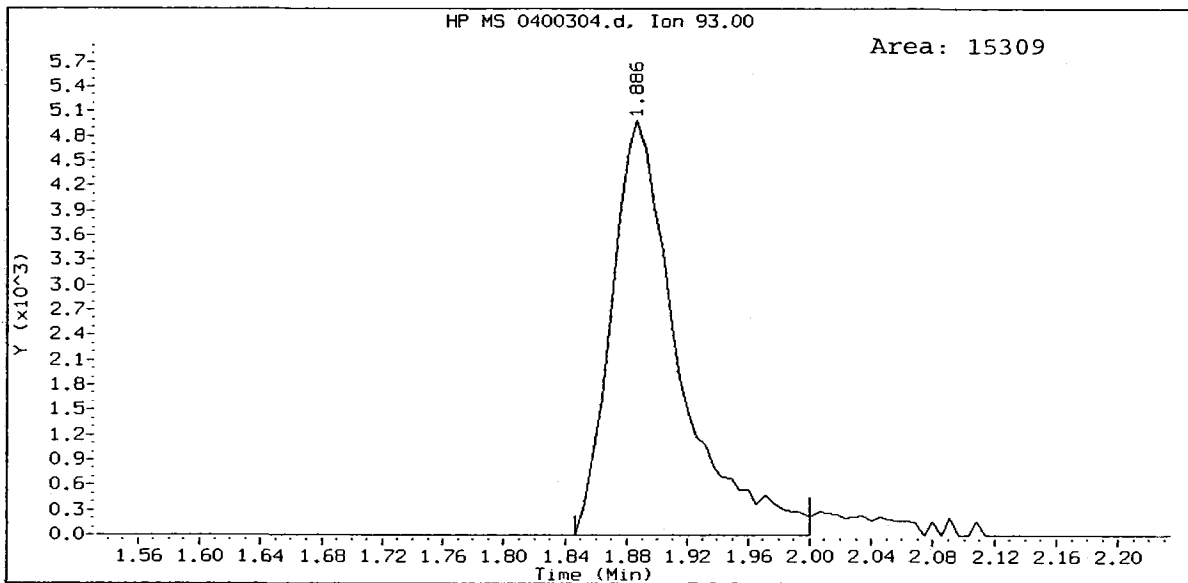
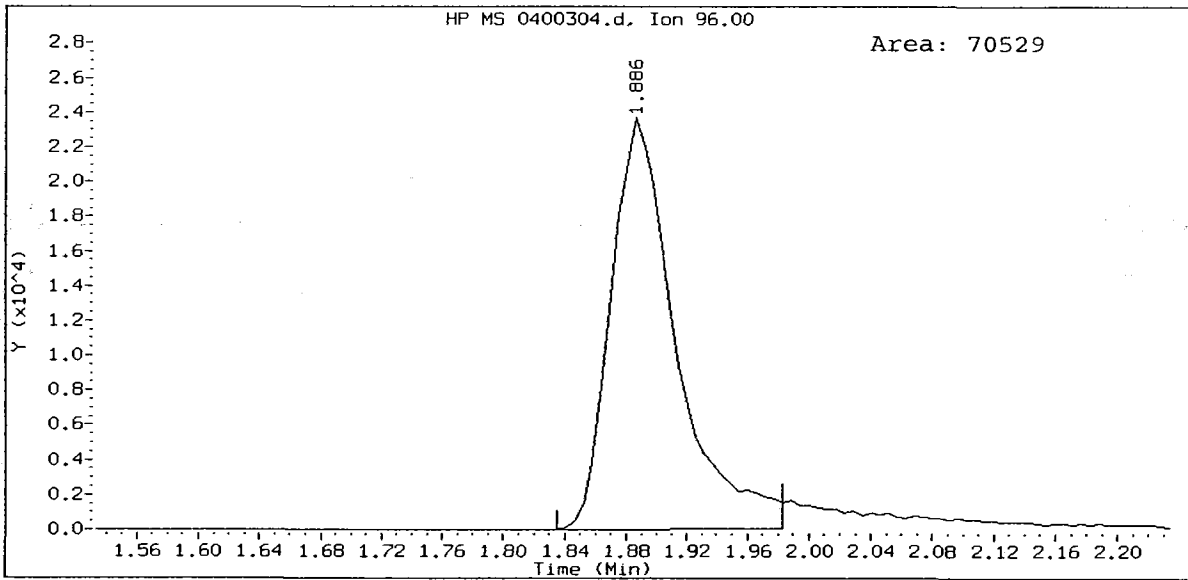
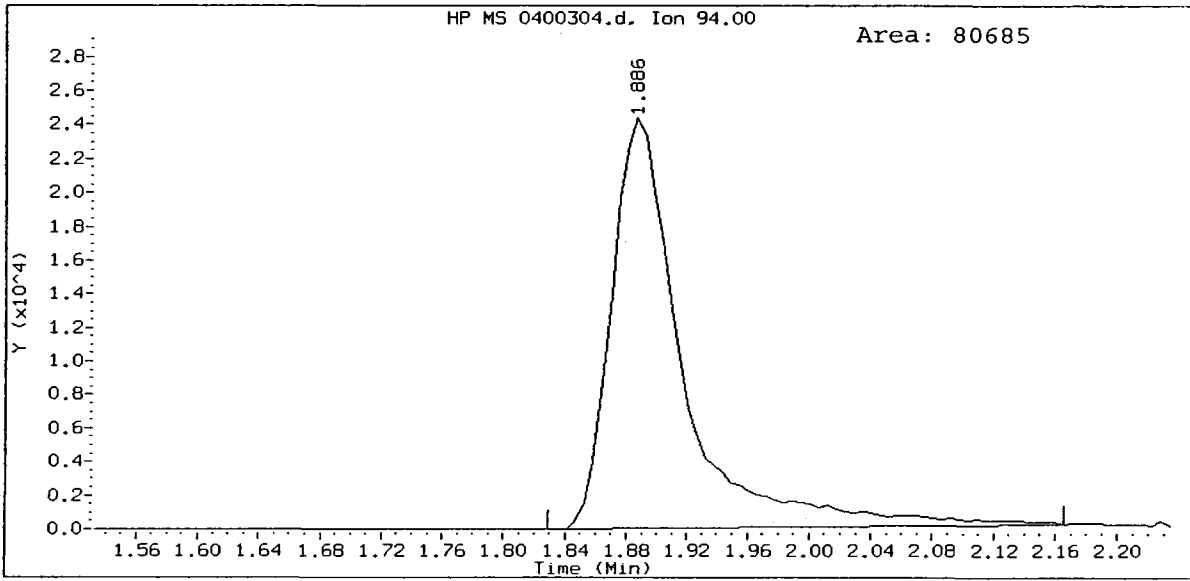
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

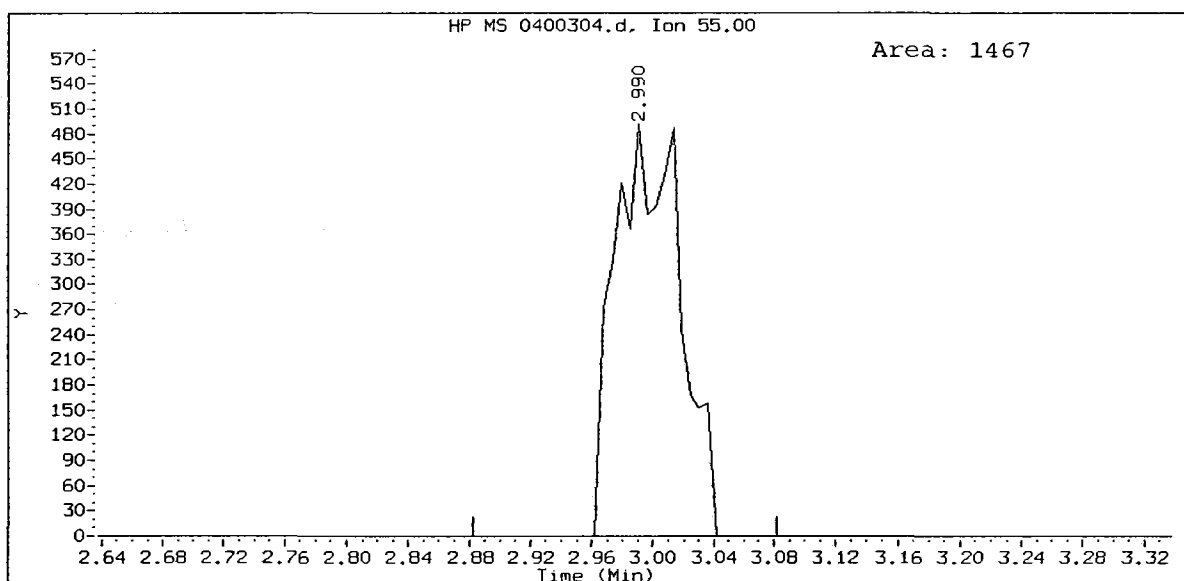
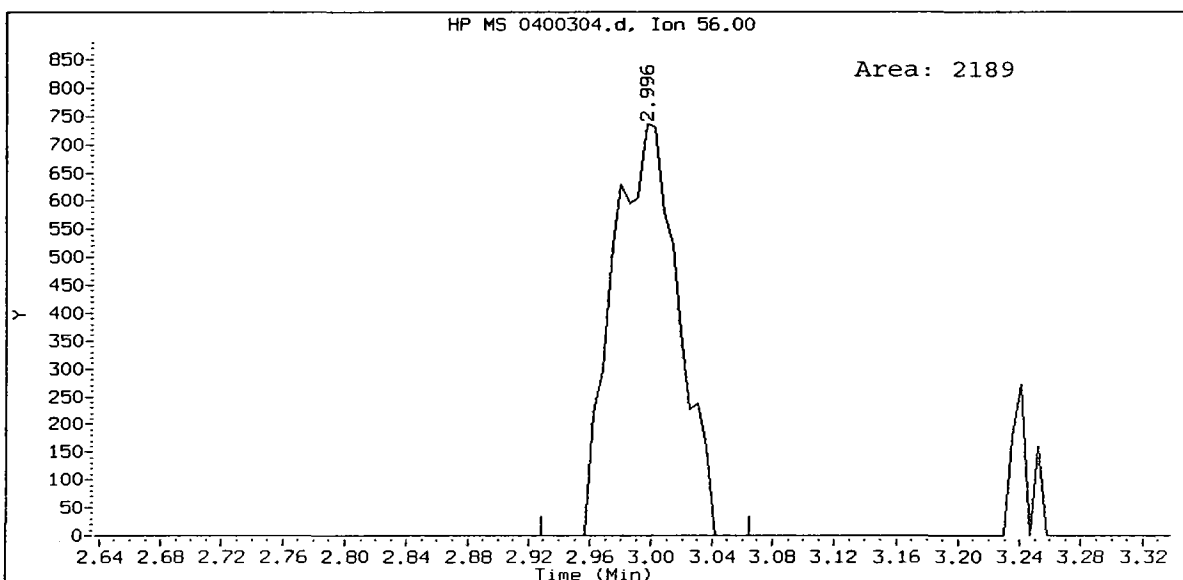
Data File: /chem1/nt10.i/04HR10a.b/0400304.d
Date: 04-MAR-2010 22:48
Client ID: vstd5
Sample Info: IC040,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18





IC040, /chem1/nt10.i/04MAR10a.b/0400304.d
Acrolein Amount: 3.68



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/1000304.d
 Lab Smp Id: IC100 Client Smp ID: vstd6
 Inj Date : 04-MAR-2010 22:19
 Operator : ar Inst ID: nt10.i
 Smp Info : IC100,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 22:19 Cal File: 1000304.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|----------------------------------|-----------|-------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.380 | (0.262) | 182995 | 10.0000 | 11.252 |
| 2 Chloromethane | 50 | 1.539 | 1.539 | (0.292) | 193188 | 10.0000 | 10.423 |
| 3 Vinyl Chloride | 62 | 1.602 | 1.602 | (0.304) | 252263 | 10.0000 | 10.657 |
| 4 Bromomethane | 94 | 1.881 | 1.881 | (0.357) | 210170 | 10.0000 | 9.665 (M) |
| 5 Chloroethane | 64 | 2.000 | 2.000 | (0.379) | 187946 | 10.0000 | 10.146 |
| 6 Trichlorofluoromethane | 101 | 2.120 | 2.120 | (0.402) | 342302 | 10.0000 | 10.343 |
| 8 Acrolein | 56 | 2.990 | 2.990 | (0.567) | 5322 | 10.0000 | 9.615 |
| 9 112Trichloro122Trifluoroethane | 101 | 2.660 | 2.660 | (0.505) | 209792 | 10.0000 | 10.454 |
| 10 Acetone | 43 | 3.326 | 3.326 | (0.631) | 24613 | 10.0000 | 9.858 |
| 11 1,1-Dichloroethene | 96 | 2.603 | 2.603 | (0.494) | 249621 | 10.0000 | 10.104 |
| 12 Bromoethane | 108 | 2.876 | 2.876 | (0.546) | 150907 | 10.0000 | 10.377 |
| 13 Iodomethane | 142 | 2.740 | 2.740 | (0.520) | 291269 | 10.0000 | 10.035 |
| 14 Methylene Chloride | 84 | 3.246 | 3.246 | (0.616) | 211315 | 10.0000 | 9.532 |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 25266 | 10.0000 | 10.384 |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.673) | 697026 | 20.0000 | 21.249 |
| 17 Carbon Disulfide | 76 | 2.609 | 2.609 | (0.495) | 787969 | 10.0000 | 10.503 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.411 | 3.411 | (0.647) | 253422 | 10.0000 | 10.354 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 154565 | 10.0000 | 10.009 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.020 | (0.763) | 407372 | 10.0000 | 10.253 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.946) | 25576 | 10.0000 | 10.094 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 124507 | 10.0000 | 9.716 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 260882 | 10.0000 | 10.059 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.272 | (1.000) | 429759 | 10.0000 | |
| 26 Chloroform | 83 | 4.737 | 4.737 | (0.899) | 432106 | 10.0000 | 10.343 |
| 27 Bromochloromethane | 128 | 4.663 | 4.663 | (0.884) | 182894 | 20.0000 | 18.538 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 183302 | 10.0000 | 10.098 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 346619 | 10.0000 | 10.443 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 377603 | 10.0000 | 10.334 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 281270 | 10.0000 | 10.493 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 169143 | 10.0000 | 10.505 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 219152 | 10.0000 | 10.009 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 1039511 | 10.0000 | 10.236 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.659 | (1.000) | 690004 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 299892 | 10.0000 | 11.164 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.007 | (1.061) | 228532 | 10.0000 | 10.509 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 286126 | 10.0000 | 10.213 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 89682 | 10.0000 | 10.212 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.143) | 65092 | 10.0000 | 10.440 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 35601 | 10.0000 | 10.395 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 304776 | 10.0000 | 10.402 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 874604 | 10.0000 | 10.159 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 702128 | 10.0000 | 10.231 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 227068 | 10.0000 | 10.534 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 54233 | 10.0000 | 10.308 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.250) | 135105 | 10.0000 | 10.280 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 246226 | 10.0000 | 10.113 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 294160 | 10.0000 | 10.151 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 170556 | 10.0000 | 10.367 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 122202 | 10.0000 | 10.536 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 631144 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 728571 | 10.0000 | 10.146 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1387581 | 10.0000 | 10.285 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 220574 | 10.0000 | 10.475 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 1062075 | 20.0000 | 20.998 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 486739 | 10.0000 | 10.608 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 742883 | 10.0000 | 10.713 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 1341688 | 10.0000 | 9.704 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 78522 | 10.0000 | 9.458 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.733 | (0.928) | 113990 | 10.0000 | 9.637 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 268121 | 10.0000 | 10.717 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 35300 | 10.0000 | 9.805 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 20418 | 10.0000 | 9.398 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1552535 | 10.0000 | 9.786 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.664 | (0.921) | 249062 | 10.0000 | 9.512 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 1043272 | 10.0000 | 10.170 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 953523 | 10.0000 | 9.628 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.947) | 837068 | 10.0000 | 9.802 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 877844 | 10.0000 | 10.177 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.968) | 1002973 | 10.0000 | 10.339 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.976) | 1322785 | 10.0000 | 10.359 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 1035091 | 10.0000 | 10.628 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.994) | 457196 | 10.0000 | 10.070 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.410 | (1.000) | 251982 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.421 | (1.001) | 433247 | 10.0000 | 10.122 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.620 | (1.022) | 896512 | 10.0000 | 10.789 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.034) | 194220 | 10.0000 | 9.893 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.035) | 341857 | 10.0000 | 10.076 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.355 | (1.100) | 10829 | 10.0000 | 9.760 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.156) | 151062 | 10.0000 | 9.818 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 96420 | 10.0000 | 9.920 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.184) | 209658 | 10.0000 | 9.877 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.199) | 108591 | 10.0000 | 10.054 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 1000304.d
 Lab Smp Id: IC100
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd6
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

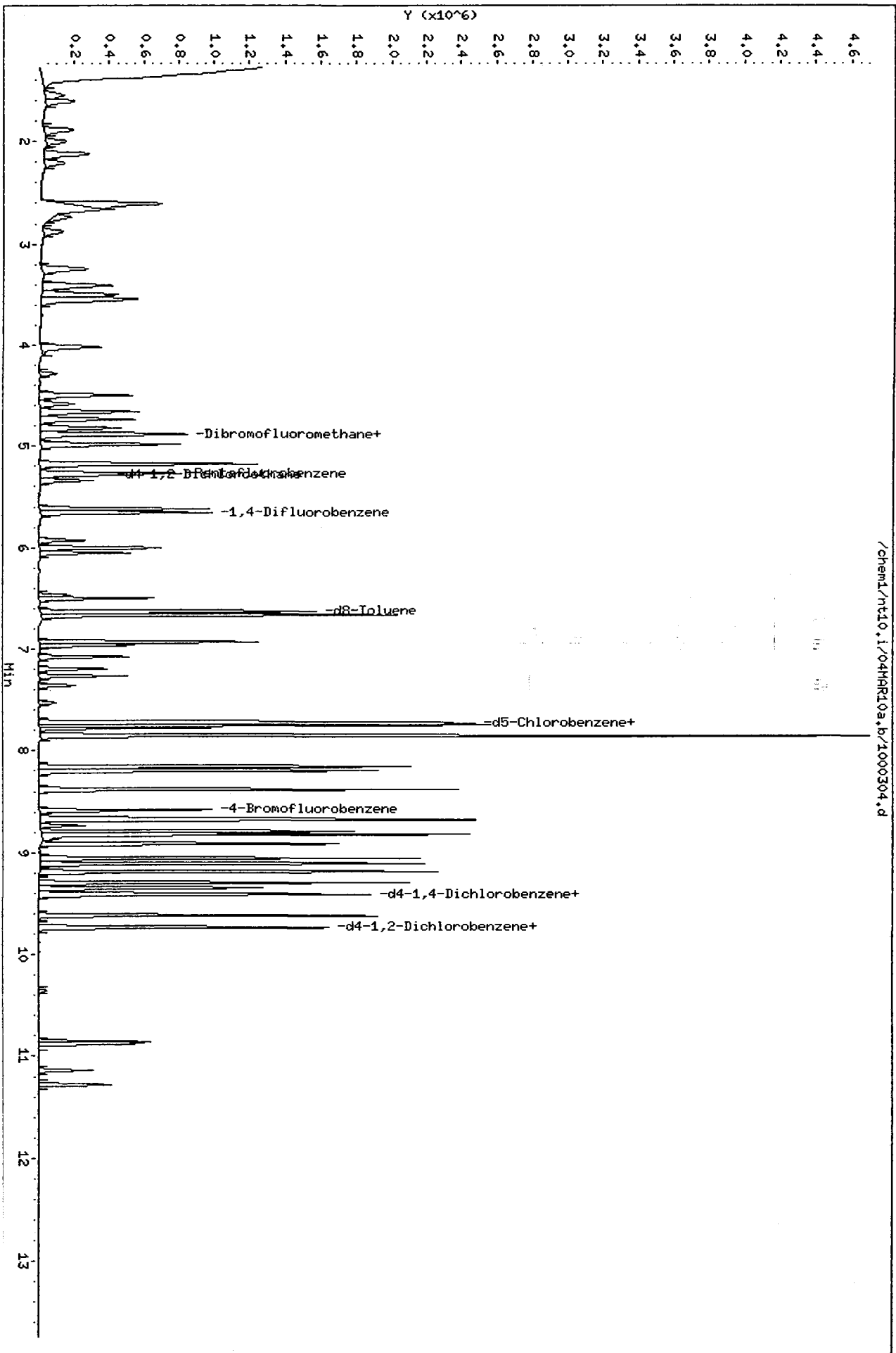
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 429759 | -6.94 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 690004 | -7.52 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 631144 | -5.19 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 251982 | 6.92 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

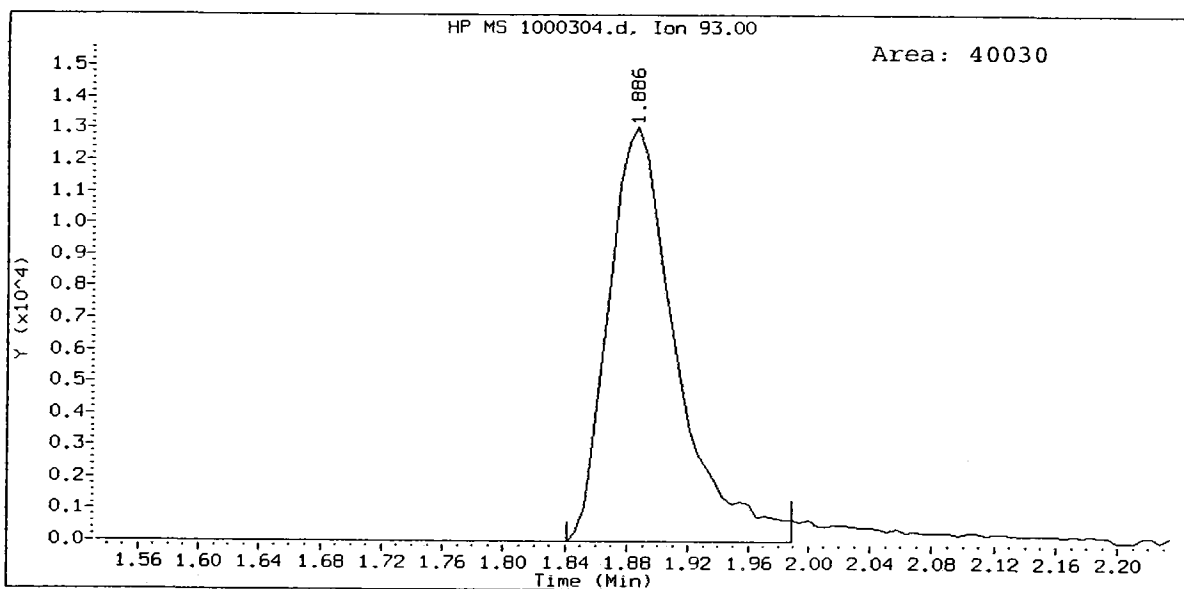
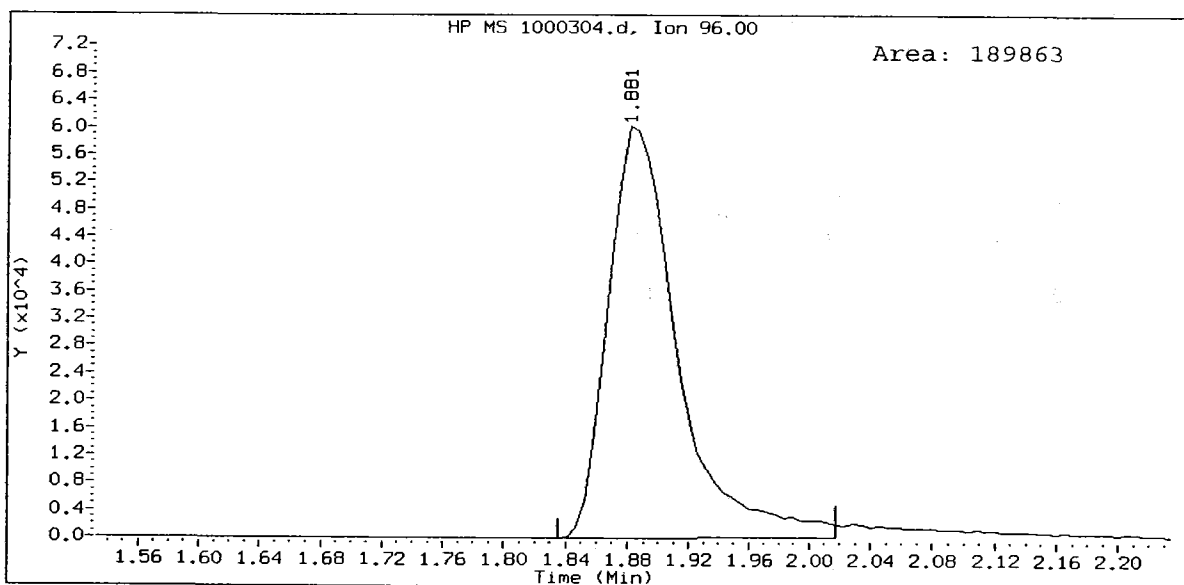
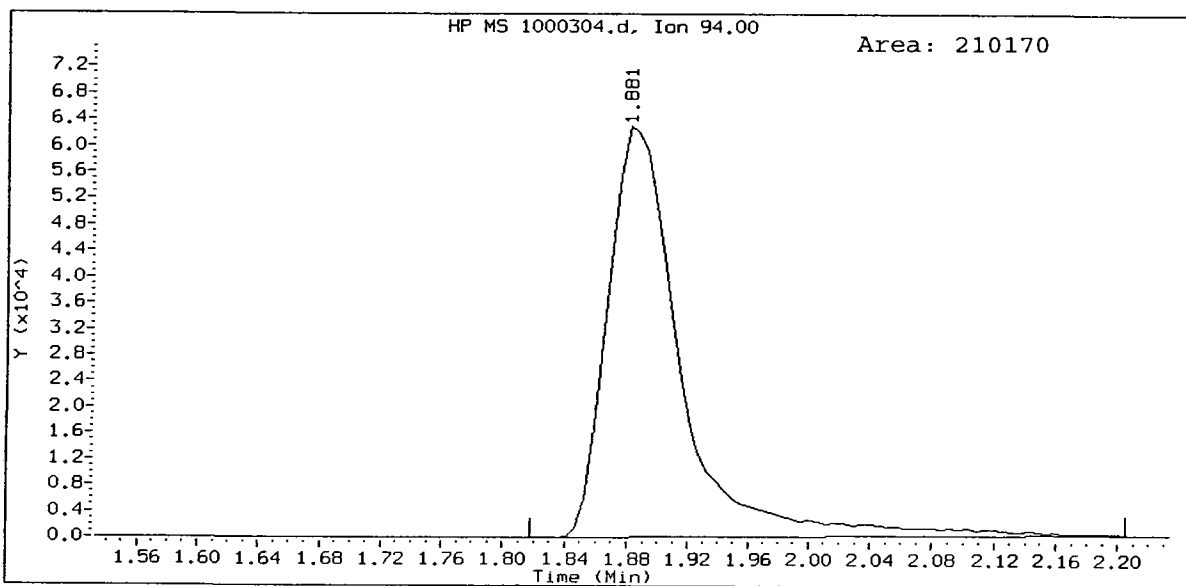
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HAR10a.b/1000304.d
Date: 04-HAR-2010 22:19
Client ID: vstd6
Sample Info: IC100,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Bromomethane Amount: 9.66



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/15000304.d
 Lab Smp Id: IC1500 Client Smp ID: vstd10
 Inj Date : 04-MAR-2010 20:20
 Operator : ar Inst ID: nt10.i
 Smp Info : IC1500,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:20 Cal File: 15000304.d
 Als bottle: 1 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.374 | 1.380 | (0.261) | 2460491 | 150.000 | 166.27 |
| 2 Chloromethane | 50 | 1.533 | 1.539 | (0.291) | 2820548 | 150.000 | 174.52 |
| 3 Vinyl Chloride | 62 | 1.602 | 1.602 | (0.304) | 3223725 | 150.000 | 145.26 |
| 4 Bromomethane | 94 | 1.875 | 1.881 | (0.356) | 2886709 | 150.000 | 145.61 |
| 5 Chloroethane | 64 | 1.977 | 2.000 | (0.375) | 2518595 | 150.000 | 145.03 |
| 6 Trichlorofluoromethane | 101 | 2.085 | 2.120 | (0.396) | 3217383 | 150.000 | 103.70 |
| 8 Acrolein | 56 | 2.996 | 2.990 | (0.569) | 86979 | 150.000 | 174.28 |
| 9 112Trichloro122Trifluoroethane | 101 | 2.637 | 2.660 | (0.501) | 2455616 | 150.000 | 130.52 |
| 10 Acetone | 43 | 3.332 | 3.326 | (0.633) | 327037 | 150.000 | 144.60 |
| 11 1,1-Dichloroethene | 96 | 2.581 | 2.603 | (0.490) | 3488262 | 150.000 | 158.08 |
| 12 Bromoethane | 108 | 2.859 | 2.876 | (0.543) | 2023532 | 150.000 | 155.11 |
| 13 Iodomethane | 142 | 2.717 | 2.740 | (0.516) | 3596358 | 150.000 | 134.15 |
| 14 Methylene Chloride | 84 | 3.235 | 3.246 | (0.614) | 2913745 | 150.000 | 149.00 |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.776) | 379492 | 150.000 | 166.36 |
| 16 Methyl tert butyl ether | 73 | 3.554 | 3.548 | (0.675) | 8280700 | 300.000 | 296.16 |
| 17 Carbon Disulfide | 76 | 2.581 | 2.609 | (0.490) | 11104284 | 150.000 | 157.87 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.400 | 3.411 | (0.646) | 3595939 | 150.000 | 163.02 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.813) | 2252375 | 150.000 | 159.12 |
| 21 1,1-Dichloroethane | 63 | 4.015 | 4.020 | (0.762) | 5954576 | 150.000 | 159.85 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.947) | 375166 | 150.000 | 157.94 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.870) | 1902157 | 150.000 | 158.33 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.493 | 4.498 | (0.853) | 3760014 | 150.000 | 154.65 |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.272 | (1.000) | 402904 | 10.0000 | |
| 26 Chloroform | 83 | 4.732 | 4.737 | (0.898) | 5944132 | 150.000 | 151.76 |
| 27 Bromochloromethane | 128 | 4.658 | 4.663 | (0.884) | 2761970 | 300.000 | 298.61 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 175637 | 10.0000 | 10.321 |
| 29 1,1,1-Trichloroethane | 97 | 4.880 | 4.885 | (0.927) | 4689062 | 150.000 | 150.69 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 5398996 | 150.000 | 155.32 |
| 31 Carbon Tetrachloride | 117 | 4.817 | 4.823 | (0.852) | 3975429 | 150.000 | 155.90 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 141202 | 10.0000 | 9.354 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.945) | 3159586 | 150.000 | 99.657 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 14582692 | 150.000 | 150.94 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.659 | (1.000) | 656424 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 4208660 | 150.000 | 164.69 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.007 | (1.062) | 3421856 | 150.000 | 165.41 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 4267624 | 150.000 | 160.13 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 1322757 | 150.000 | 158.32 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.467 | 6.468 | (1.144) | 861414 | 150.000 | 145.22 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.228) | 526261 | 150.000 | 161.51 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 4883905 | 150.000 | 175.22 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 806309 | 10.0000 | 9.845 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 10159414 | 150.000 | 155.60 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 3648179 | 150.000 | 177.90 |
| 46 2-Hexanone | 43 | 7.532 | 7.526 | (0.976) | 703393 | 150.000 | 145.57 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.252) | 1897453 | 150.000 | 151.76 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 3458855 | 150.000 | 154.68 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 4297106 | 150.000 | 161.46 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 2464549 | 150.000 | 163.10 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 1683635 | 150.000 | 152.59 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 579678 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 9651646 | 150.000 | 146.34 |
| 54 Ethyl Benzene | 91 | 7.754 | 7.748 | (1.004) | 14404265 | 150.000 | 116.25 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.782 | 7.776 | (1.008) | 2820653 | 150.000 | 145.84 |
| 56 m,p-xylene | 106 | 7.856 | 7.850 | (1.018) | 12314649 | 150.000 | 265.08 |
| 58 o-Xylene | 106 | 8.163 | 8.158 | (1.058) | 5656889 | 150.000 | 134.23 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 8500921 | 150.000 | 133.47 |
| 60 Isopropyl Benzene | 105 | 8.385 | 8.380 | (0.891) | 11534906 | 150.000 | 115.17 |
| 61 Bromoform | 173 | 8.220 | 8.215 | (0.874) | 1009812 | 150.000 | 167.91 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.738 | 8.733 | (0.929) | 1207429 | 150.000 | 140.92 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 187031 | 10.0000 | 8.139 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 376045 | 150.000 | 144.20 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 288663 | 150.000 | 183.41 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 12470157 | 150.000 | 108.50 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 67 Bromobenzene | 156 | 8.664 | 8.664 | (0.921) | 2775406 | 150.000 | 146.32 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.829 | 8.824 | (0.938) | 8630824 | 150.000 | 116.14 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 8133619 | 150.000 | 113.37 |
| 70 4-Chloro Toluene | 91 | 8.920 | 8.915 | (0.948) | 8057258 | 150.000 | 130.24 |
| 71 T-Butyl Benzene | 119 | 9.063 | 9.057 | (0.963) | 6933585 | 150.000 | 110.96 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.114 | 9.108 | (0.969) | 8429988 | 150.000 | 119.96 |
| 73 S-Butyl Benzene | 105 | 9.194 | 9.188 | (0.977) | 9341616 | 150.000 | 100.99 |
| 74 4-Isopropyl Toluene | 119 | 9.302 | 9.296 | (0.988) | 7735798 | 150.000 | 109.65 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.994) | 4583412 | 150.000 | 139.36 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.410 | (1.000) | 182536 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.421 | (1.001) | 4432166 | 150.000 | 142.94 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.620 | (1.022) | 6753260 | 150.000 | 112.19 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.034) | 143903 | 10.0000 | 10.119 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.035) | 3555482 | 150.000 | 144.66 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.354 | 10.355 | (1.100) | 136929 | 150.000 | 170.36 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.884 | 10.878 | (1.157) | 1567909 | 150.000 | 140.68 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 421528 | 150.000 | 59.867 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.184) | 2222954 | 150.000 | 144.56 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.199) | 963605 | 150.000 | 123.15 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt10.i | Calibration Date: 04-MAR-2010 |
| Lab File ID: 15000304.d | Calibration Time: 22:19 |
| Lab Smp Id: IC1500 | Client Smp ID: vstd10 |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: ar | |
| Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m | |
| Misc Info: 09- | |

Test Mode: Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

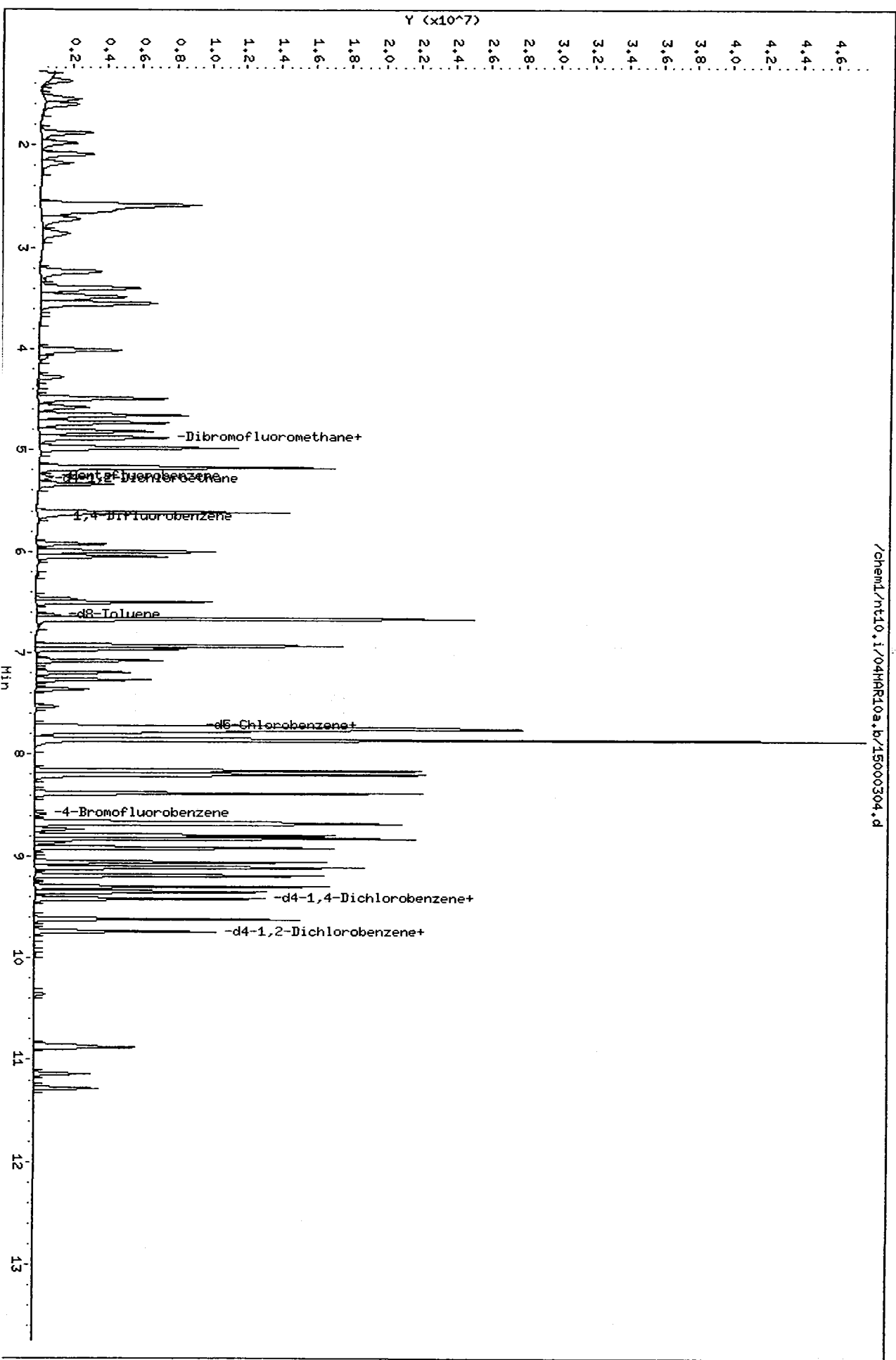
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 402904 | -12.75 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 656424 | -12.02 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 579678 | -12.92 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 182536 | -22.54 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HAR10a,b/15000304.d
Date: 04-HAR-2010 20:20
Client ID: vstd10
Sample Info: IC1500,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/2000304.d
 Lab Smp Id: IC200 Client Smp ID: vstd7
 Inj Date : 04-MAR-2010 21:49
 Operator : ar Inst ID: nt10.i
 Smp Info : IC200,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 21:49 Cal File: 2000304.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|------|-------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | 1.386 | 1.380 | (0.263) | 371528 | 20.0000 | 21.133 |
| 2 Chloromethane | 50 | | | 1.539 | 1.539 | (0.292) | 365177 | 20.0000 | 18.226 |
| 3 Vinyl Chloride | 62 | | | 1.607 | 1.602 | (0.305) | 502690 | 20.0000 | 19.645 |
| 4 Bromomethane | 94 | | | 1.886 | 1.881 | (0.358) | 409341 | 20.0000 | 17.225 (M) |
| 5 Chloroethane | 64 | | | 2.000 | 2.000 | (0.379) | 391666 | 20.0000 | 19.561 |
| 6 Trichlorofluoromethane | 101 | | | 2.120 | 2.120 | (0.402) | 719876 | 20.0000 | 20.124 |
| 8 Acrolein | 56 | | | 2.990 | 2.990 | (0.567) | 11259 | 20.0000 | 18.817 |
| 9 112Trichloro122Trifluoroethane | 101 | | | 2.660 | 2.660 | (0.505) | 435494 | 20.0000 | 20.076 |
| 10 Acetone | 43 | | | 3.332 | 3.326 | (0.632) | 49413 | 20.0000 | 18.309 |
| 11 1,1-Dichloroethene | 96 | | | 2.609 | 2.603 | (0.495) | 538637 | 20.0000 | 20.171 |
| 12 Bromoethane | 108 | | | 2.882 | 2.876 | (0.547) | 318228 | 20.0000 | 20.245 |
| 13 Iodomethane | 142 | | | 2.740 | 2.740 | (0.520) | 607405 | 20.0000 | 19.360 |
| 14 Methylene Chloride | 84 | | | 3.247 | 3.246 | (0.616) | 434326 | 20.0000 | 18.124 |
| 15 Acrylonitrile | 53 | | | 4.089 | 4.089 | (0.775) | 55253 | 20.0000 | 21.008 |
| 16 Methyl tert butyl ether | 73 | | | 3.548 | 3.548 | (0.673) | 1459224 | 40.0000 | 41.153 |
| 17 Carbon Disulfide | 76 | | | 2.609 | 2.609 | (0.495) | 1629919 | 20.0000 | 20.098 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.412 | 3.411 | (0.647) | 544472 | 20.0000 | 20.580 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 363902 | 20.0000 | 21.801 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.020 | (0.763) | 903545 | 20.0000 | 21.038 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.946) | 56849 | 20.0000 | 20.757 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 283124 | 20.0000 | 20.439 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.499 | 4.498 | (0.853) | 586193 | 20.0000 | 20.911 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.272 | (1.000) | 464545 | 10.0000 | |
| 26 Chloroform | 83 | 4.738 | 4.737 | (0.899) | 946983 | 20.0000 | 20.970 |
| 27 Bromochloromethane | 128 | 4.664 | 4.663 | (0.884) | 399821 | 40.0000 | 37.491 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 197653 | 10.0000 | 10.073 |
| 29 1,1,1-Trichloroethane | 97 | 4.886 | 4.885 | (0.927) | 742621 | 20.0000 | 20.699 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 845302 | 20.0000 | 21.239 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 629028 | 20.0000 | 21.545 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 173020 | 10.0000 | 9.941 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 500157 | 20.0000 | 20.972 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 2346821 | 20.0000 | 21.215 |
| * 35 1,4-Difluorobenzene | 114 | 5.660 | 5.659 | (1.000) | 751576 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 657141 | 20.0000 | 22.459 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.007 | (1.061) | 508850 | 20.0000 | 21.483 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 646550 | 20.0000 | 21.188 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 204188 | 20.0000 | 21.345 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.143) | 152278 | 20.0000 | 22.422 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 76077 | 20.0000 | 20.393 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 726790 | 20.0000 | 22.774 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 941357 | 10.0000 | 10.039 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 1608121 | 20.0000 | 21.512 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 545513 | 20.0000 | 23.234 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 119076 | 20.0000 | 21.116 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.250) | 306015 | 20.0000 | 21.376 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 559285 | 20.0000 | 21.432 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 678117 | 20.0000 | 21.833 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 388907 | 20.0000 | 22.054 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 278385 | 20.0000 | 22.036 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 676495 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 1641660 | 20.0000 | 21.329 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 3095031 | 20.0000 | 21.404 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 480974 | 20.0000 | 21.310 |
| 56 m,p-xylene | 106 | 7.851 | 7.850 | (1.017) | 2398499 | 40.0000 | 44.240 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 1052048 | 20.0000 | 21.391 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 1646695 | 20.0000 | 22.154 |
| 60 Isopropyl Benzene | 105 | 8.386 | 8.380 | (0.891) | 2799647 | 20.0000 | 21.472 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 176697 | 20.0000 | 22.569 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.738 | 8.733 | (0.929) | 226807 | 20.0000 | 20.333 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 276107 | 10.0000 | 10.296 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 71221 | 20.0000 | 20.978 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 46857 | 20.0000 | 22.869 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 3267638 | 20.0000 | 21.839 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|--------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.664 | (0.921) | 535287 | 20.0000 | 21.677 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 2076643 | 20.0000 | 21.465 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 1995956 | 20.0000 | 21.370 |
| 70 4-Chloro Toluene | 91 | 8.920 | 8.915 | (0.948) | 1764108 | 20.0000 | 21.904 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 1694431 | 20.0000 | 20.830 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.968) | 1962712 | 20.0000 | 21.453 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.976) | 2533020 | 20.0000 | 21.035 |
| 74 4-Isopropyl Toluene | 119 | 9.302 | 9.296 | (0.988) | 1942852 | 20.0000 | 21.153 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.994) | 909140 | 20.0000 | 21.234 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.410 | (1.000) | 237636 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.421 | (1.001) | 858588 | 20.0000 | 21.270 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.620 | (1.022) | 1669878 | 20.0000 | 21.310 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.034) | 178218 | 10.0000 | 9.626 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.035) | 649326 | 20.0000 | 20.294 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.355 | (1.100) | 21487 | 20.0000 | 20.534 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.884 | 10.878 | (1.157) | 304850 | 20.0000 | 21.010 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 174712 | 20.0000 | 19.060 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.184) | 392278 | 20.0000 | 19.596 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.288 | 11.282 | (1.200) | 196775 | 20.0000 | 19.318 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 2000304.d
 Lab Smp Id: IC200
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd7
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

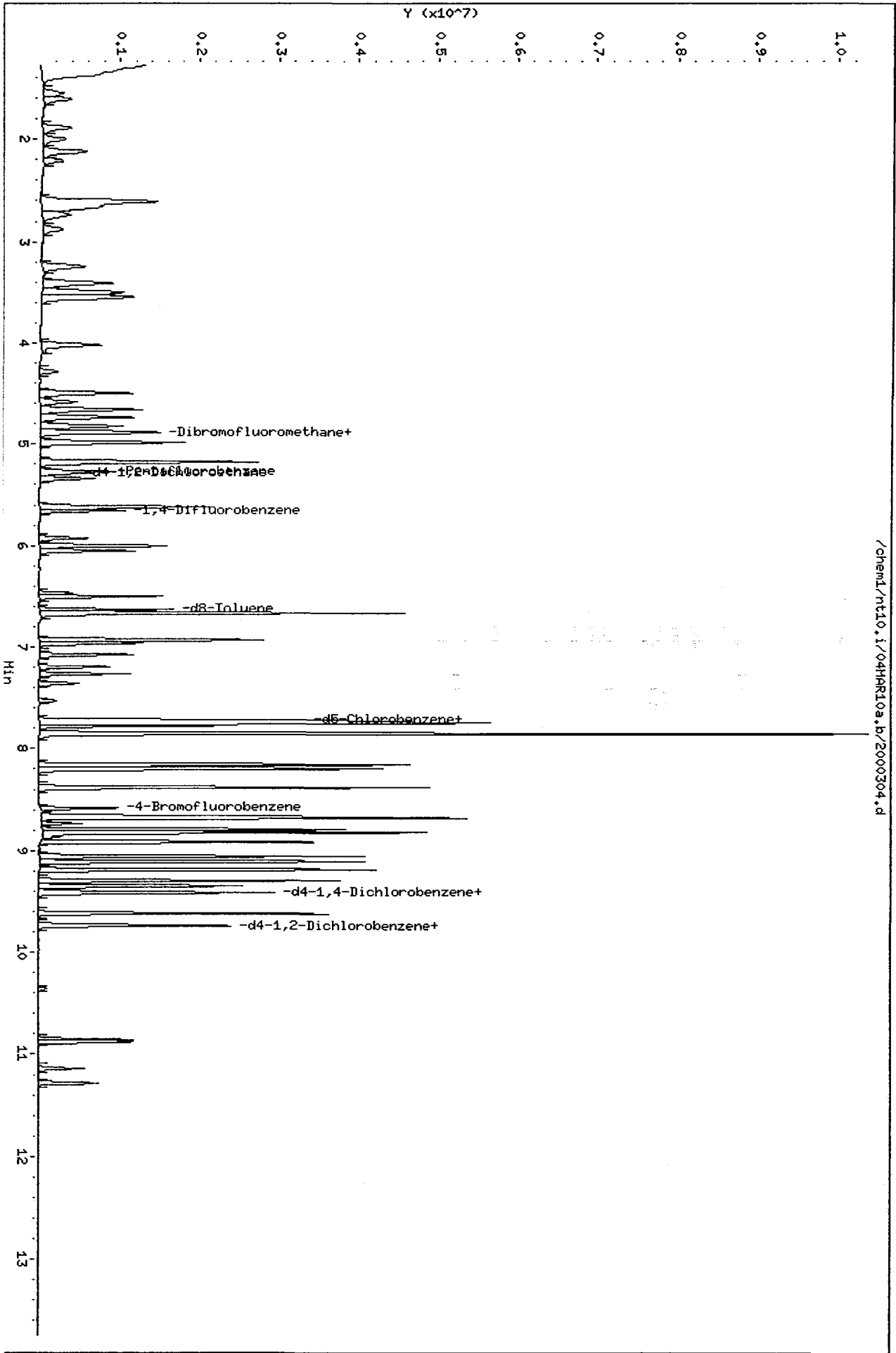
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 464545 | 0.59 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 751576 | 0.73 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 676495 | 1.62 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 237636 | 0.84 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

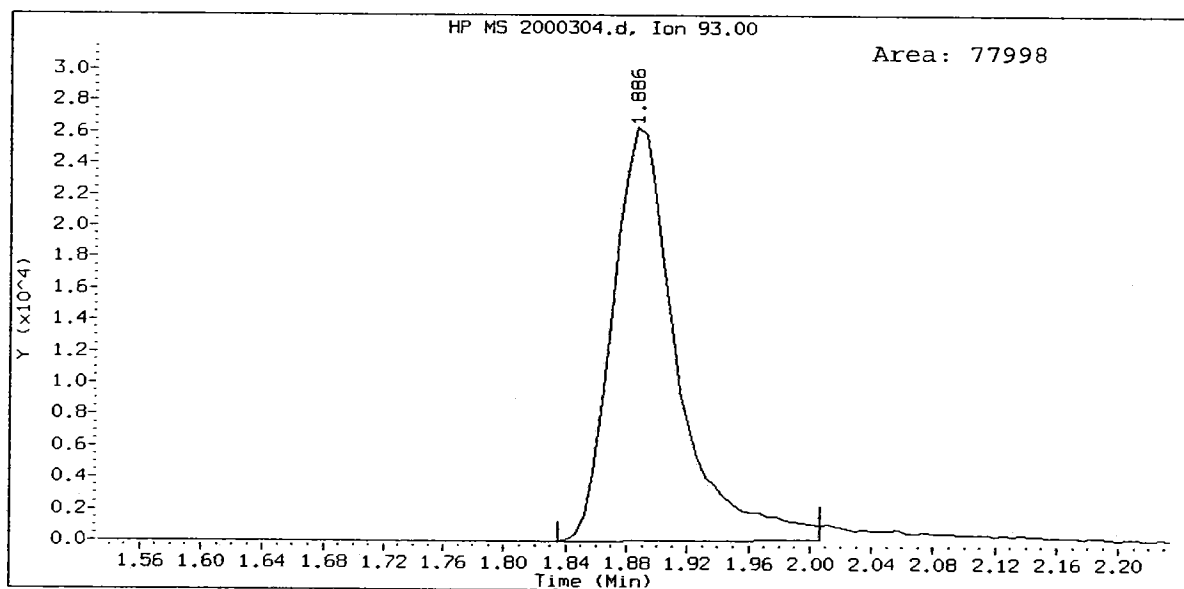
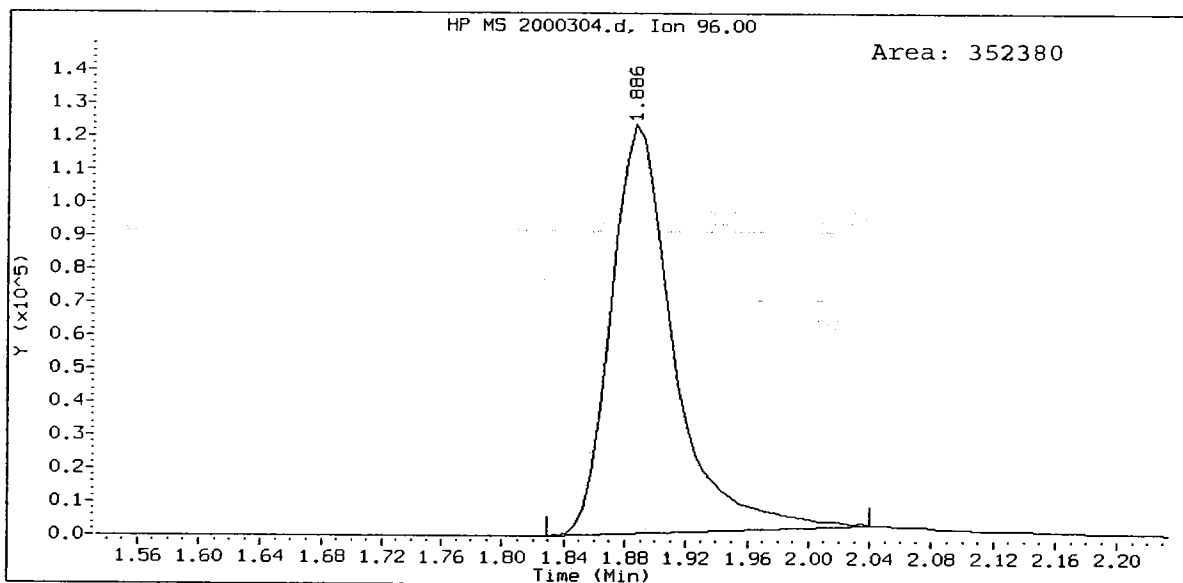
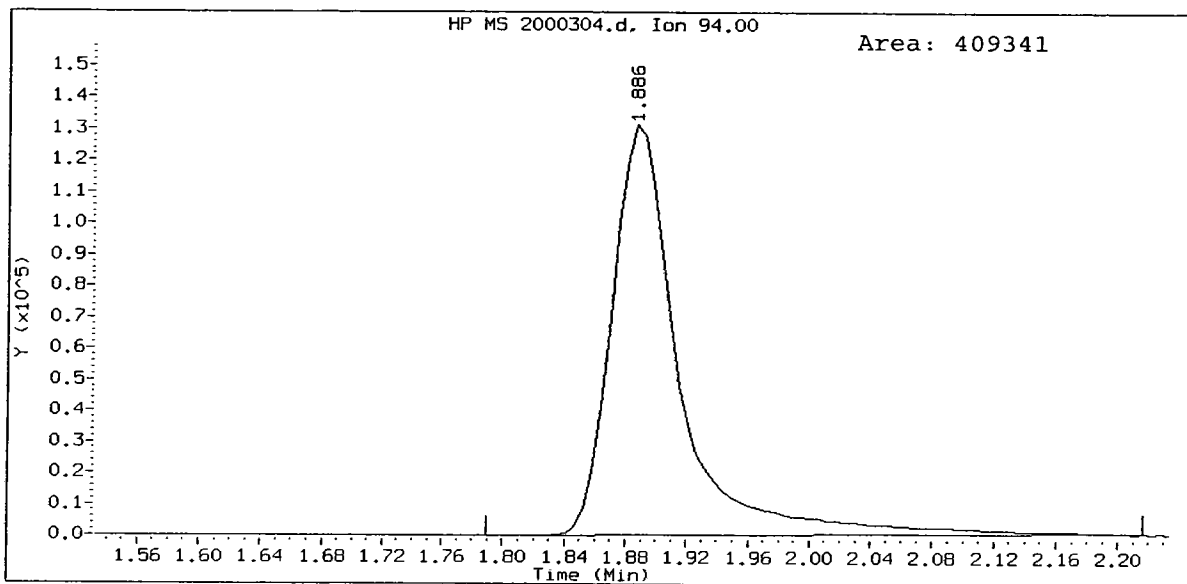
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HAR10a.b/2000304.d
Date: 04-HAR-2010 21:49
Client ID: vstd7
Sample Info: IC200,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Bromomethane Amount: 17.22



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/4000304.d
 Lab Smp Id: IC400 Client Smp ID: vstd8
 Inj Date : 04-MAR-2010 21:19
 Operator : ar Inst ID: nt10.i
 Smp Info : IC400,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 21:19 Cal File: 4000304.d
 Als bottle: 1 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.380 | (0.262) | 626617 | 40.0000 | 37.906 |
| 2 Chloromethane | 50 | 1.533 | 1.539 | (0.291) | 686524 | 40.0000 | 36.441 |
| 3 Vinyl Chloride | 62 | 1.602 | 1.602 | (0.304) | 889682 | 40.0000 | 36.977 |
| 4 Bromomethane | 94 | 1.881 | 1.881 | (0.357) | 756316 | 40.0000 | 33.717 (M) |
| 5 Chloroethane | 64 | 1.994 | 2.000 | (0.378) | 796156 | 40.0000 | 42.287 |
| 6 Trichlorofluoromethane | 101 | 2.114 | 2.120 | (0.401) | 1316041 | 40.0000 | 39.125 |
| 8 Acrolein | 56 | 2.990 | 2.990 | (0.567) | 21916 | 40.0000 | 38.954 |
| 9 112Trichloro122Trifluoroethane | 101 | 2.660 | 2.660 | (0.505) | 814345 | 40.0000 | 39.924 |
| 10 Acetone | 43 | 3.326 | 3.326 | (0.631) | 87882 | 40.0000 | 34.631 |
| 11 1,1-Dichloroethene | 96 | 2.603 | 2.603 | (0.494) | 987616 | 40.0000 | 39.333 |
| 12 Bromoethane | 108 | 2.871 | 2.876 | (0.544) | 569815 | 40.0000 | 38.552 |
| 13 Iodomethane | 142 | 2.734 | 2.740 | (0.519) | 1063256 | 40.0000 | 35.909 (M) |
| 14 Methylene Chloride | 84 | 3.246 | 3.246 | (0.616) | 783226 | 40.0000 | 34.758 |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 98008 | 40.0000 | 39.631 |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.673) | 2538082 | 60.0000 | 67.555 (M) |
| 17 Carbon Disulfide | 76 | 2.603 | 2.609 | (0.494) | 3055690 | 40.0000 | 40.072 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.411 | (0.646) | 994154 | 40.0000 | 39.964 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 607689 | 40.0000 | 38.718 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.020 | (0.763) | 1554833 | 40.0000 | 38.501 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.946) | 98418 | 40.0000 | 38.217 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 481839 | 40.0000 | 36.993 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 1028073 | 40.0000 | 39.002 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.272 | (1.000) | 436809 | 10.0000 | 10.0000 |
| 26 Chloroform | 83 | 4.737 | 4.737 | (0.899) | 1658465 | 40.0000 | 39.056 |
| 27 Bromochloromethane | 128 | 4.664 | 4.663 | (0.884) | 704816 | 80.0000 | 70.286 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 188134 | 10.0000 | 10.197 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 1309942 | 40.0000 | 38.830 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 1474037 | 40.0000 | 39.435 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 1095560 | 40.0000 | 39.955 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 163108 | 10.0000 | 9.966 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 829344 | 40.0000 | 37.027 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 4091103 | 40.0000 | 39.379 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.659 | (1.000) | 705860 | 10.0000 | 10.0000 |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 1105460 | 40.0000 | 40.227 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.007 | (1.061) | 849477 | 40.0000 | 38.187 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 1104590 | 40.0000 | 38.543 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 341164 | 40.0000 | 37.975 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.143) | 232098 | 40.0000 | 36.388 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 140320 | 40.0000 | 40.049 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 1226594 | 40.0000 | 40.925 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 877841 | 10.0000 | 9.968 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 2720205 | 40.0000 | 38.745 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 926819 | 40.0000 | 42.031 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 212495 | 40.0000 | 39.609 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.250) | 516172 | 40.0000 | 38.392 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 939351 | 40.0000 | 37.836 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 1175185 | 40.0000 | 39.771 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 657220 | 40.0000 | 39.175 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 463383 | 40.0000 | 39.055 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 643590 | 10.0000 | 10.0000 |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 2804991 | 40.0000 | 38.307 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 5281469 | 40.0000 | 38.392 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 837386 | 40.0000 | 38.997 |
| 56 m,p-xylene | 106 | 7.856 | 7.850 | (1.018) | 4212619 | 80.0000 | 81.675 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 1818873 | 40.0000 | 38.873 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 2803508 | 40.0000 | 39.646 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 4812565 | 40.0000 | 40.382 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 297550 | 40.0000 | 41.580 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.733 | (0.928) | 380634 | 40.0000 | 37.333 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 256228 | 10.0000 | 10.044 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 120539 | 40.0000 | 38.844 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.864 | 8.869 | (0.942) | 84309 | 40.0000 | 45.019 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 5572230 | 40.0000 | 40.745 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.920) | 906708 | 40.0000 | 40.172 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 3464932 | 40.0000 | 39.184 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 3361542 | 40.0000 | 39.376 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.947) | 2954580 | 40.0000 | 40.137 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 2835326 | 40.0000 | 38.134 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.968) | 3219005 | 40.0000 | 38.495 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.976) | 4158421 | 40.0000 | 37.781 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 3183257 | 40.0000 | 37.918 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.994) | 1495419 | 40.0000 | 38.212 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.410 | (1.000) | 217204 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.421 | (1.001) | 1406275 | 40.0000 | 38.116 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 2790478 | 40.0000 | 38.959 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.034) | 164150 | 10.0000 | 9.701 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.035) | 1064715 | 40.0000 | 36.406 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.355 | (1.100) | 37872 | 40.0000 | 39.597 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.156) | 528713 | 40.0000 | 39.866 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 294307 | 40.0000 | 35.127 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.184) | 679687 | 40.0000 | 37.146 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.199) | 334479 | 40.0000 | 35.925 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 4000304.d
 Lab Smp Id: IC400
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd8
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

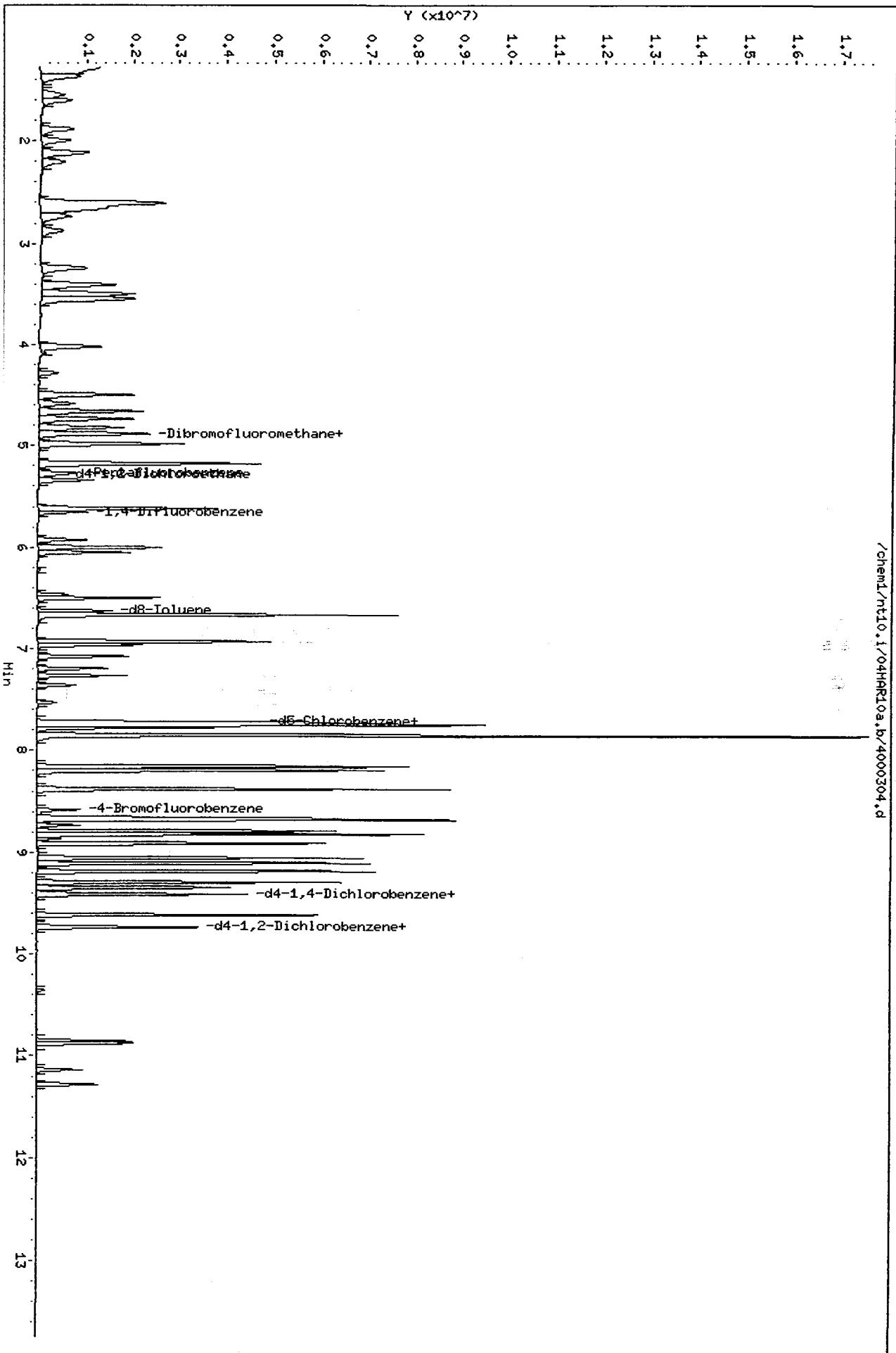
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 436809 | -5.41 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 705860 | -5.40 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 643590 | -3.32 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 217204 | -7.83 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

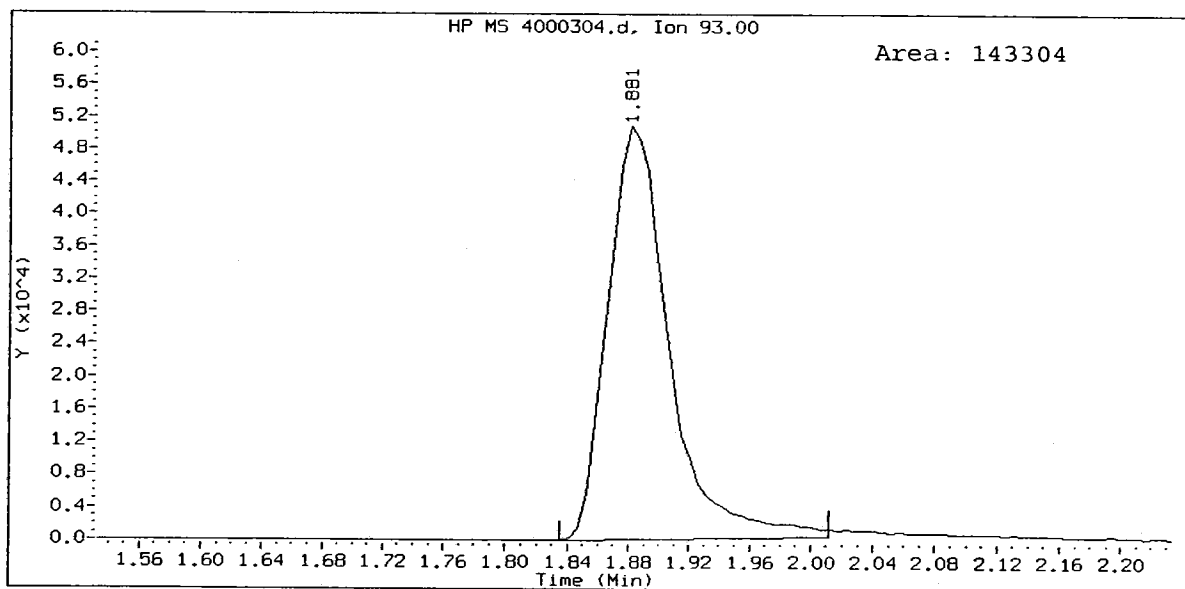
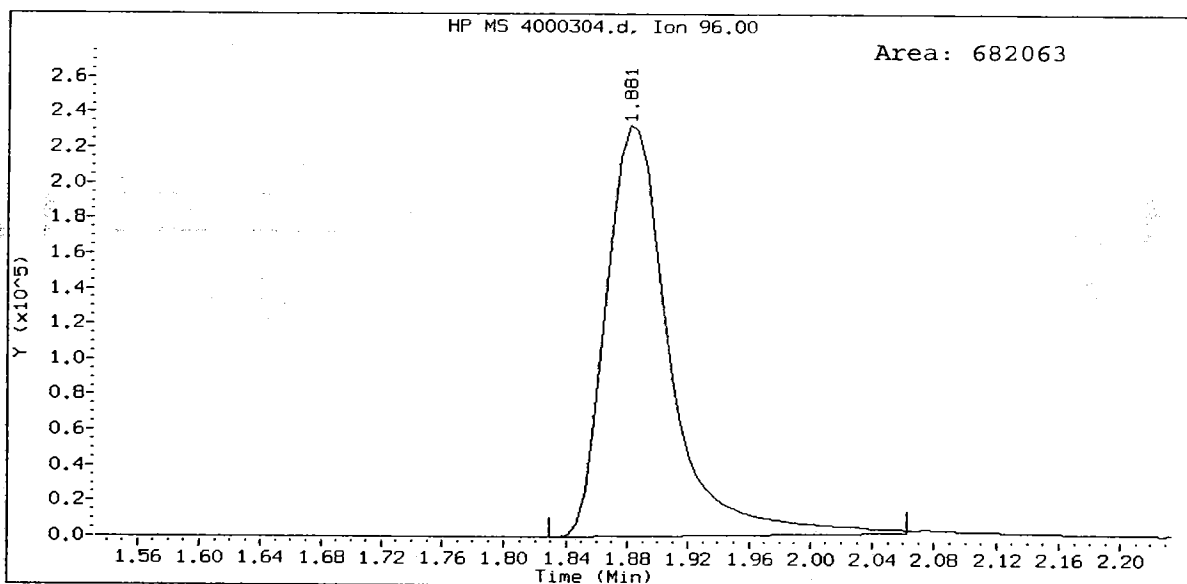
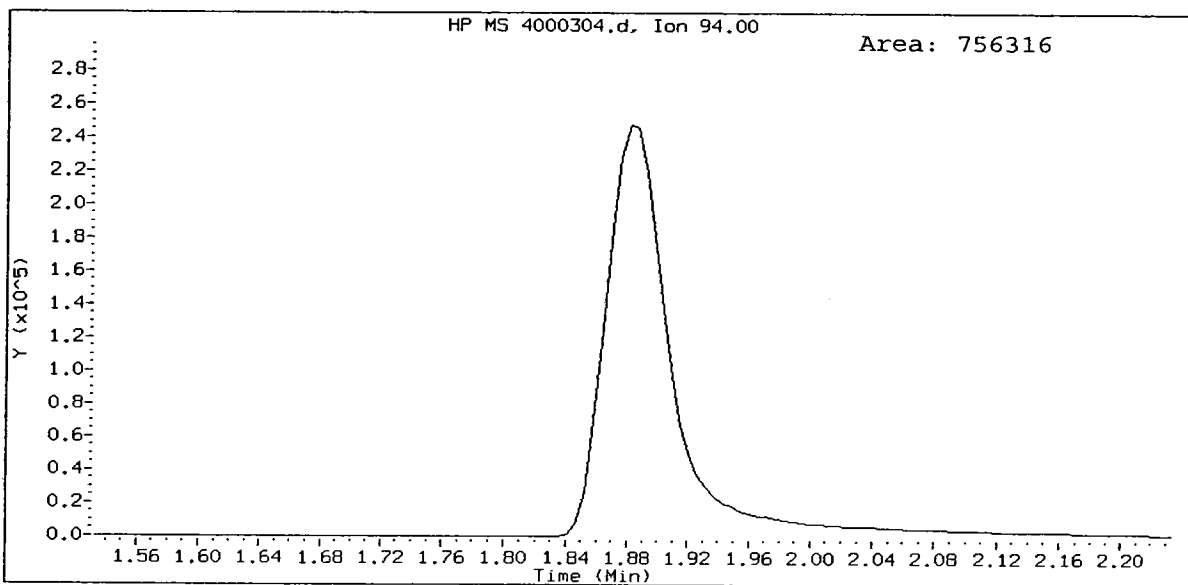
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 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

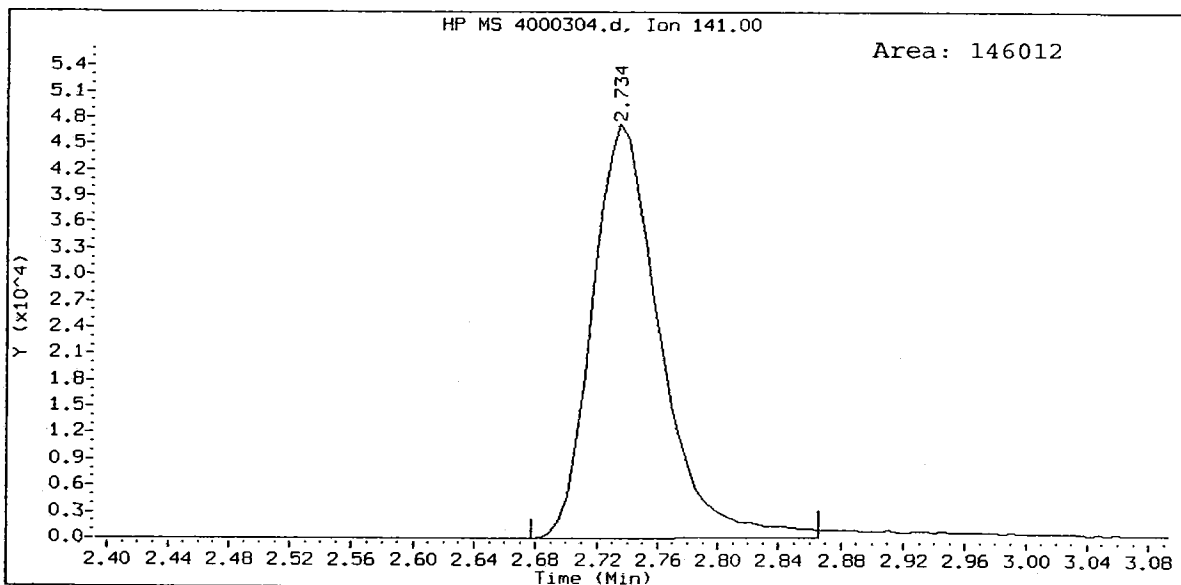
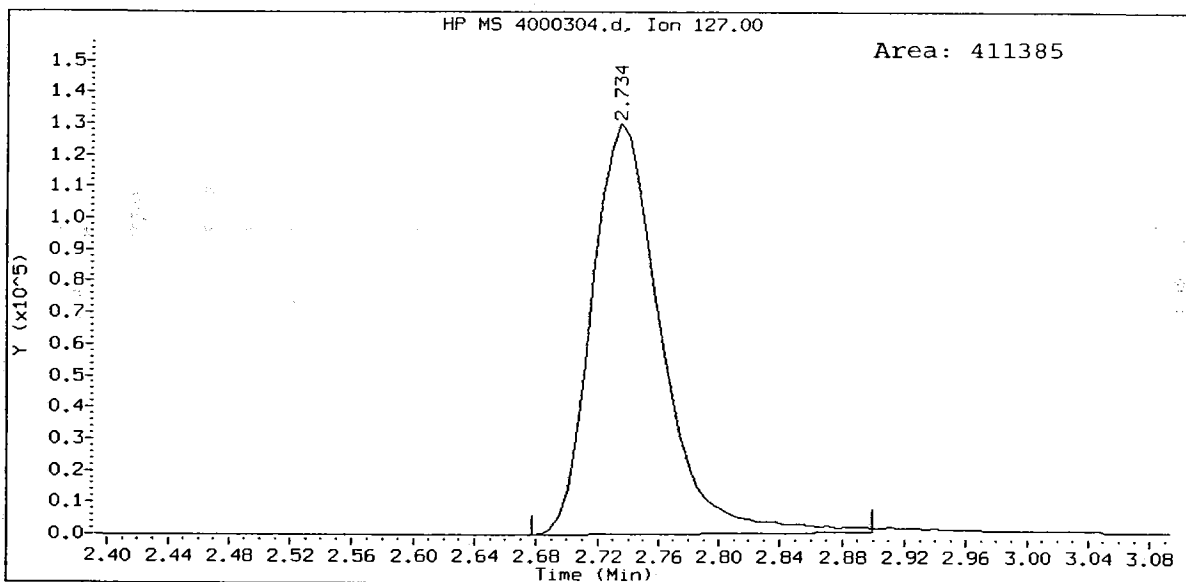
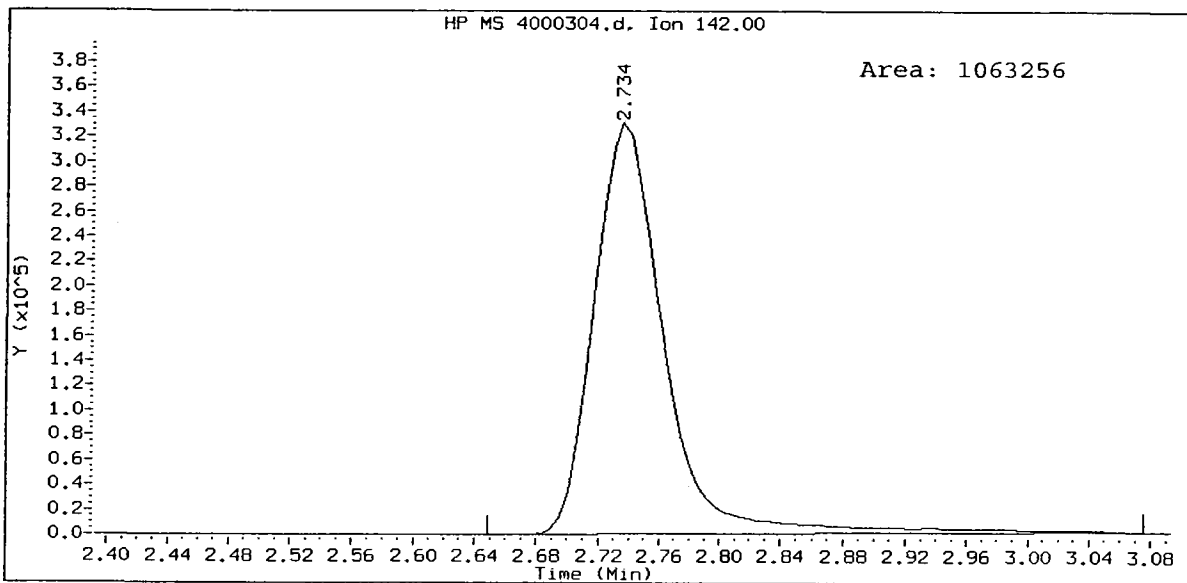
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Date: 04-HAR-2010 21:19
Client ID: vstd8
Sample Info: IC400,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

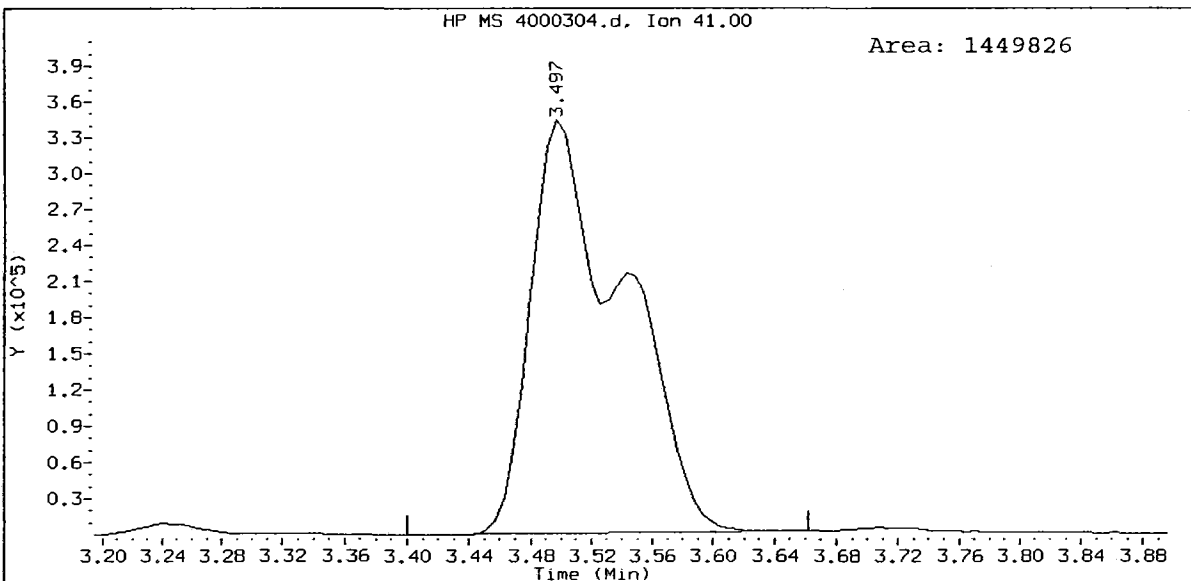
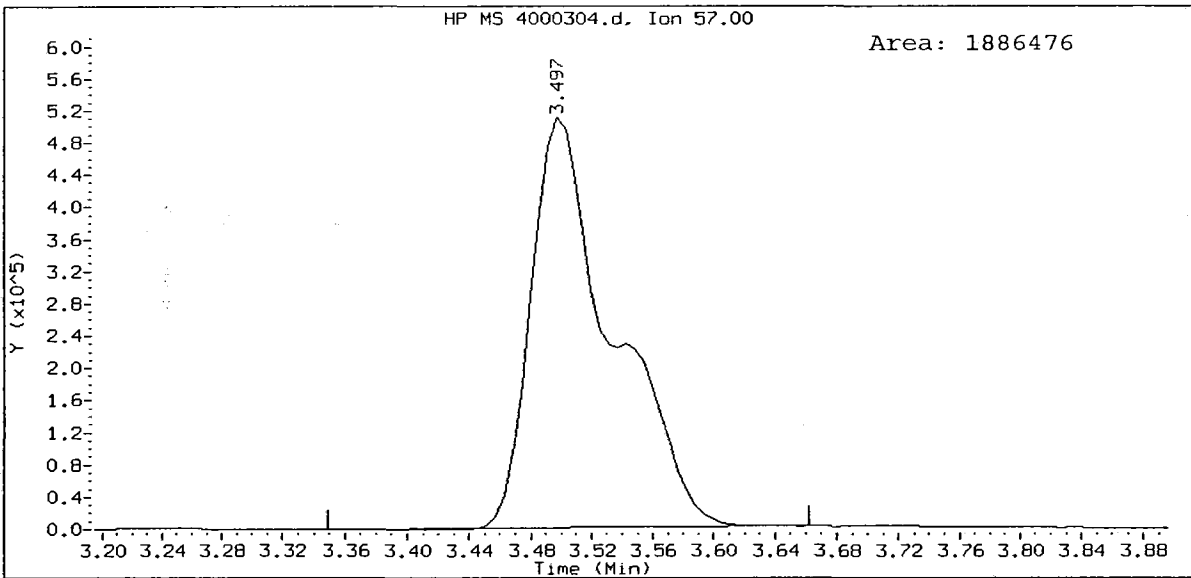
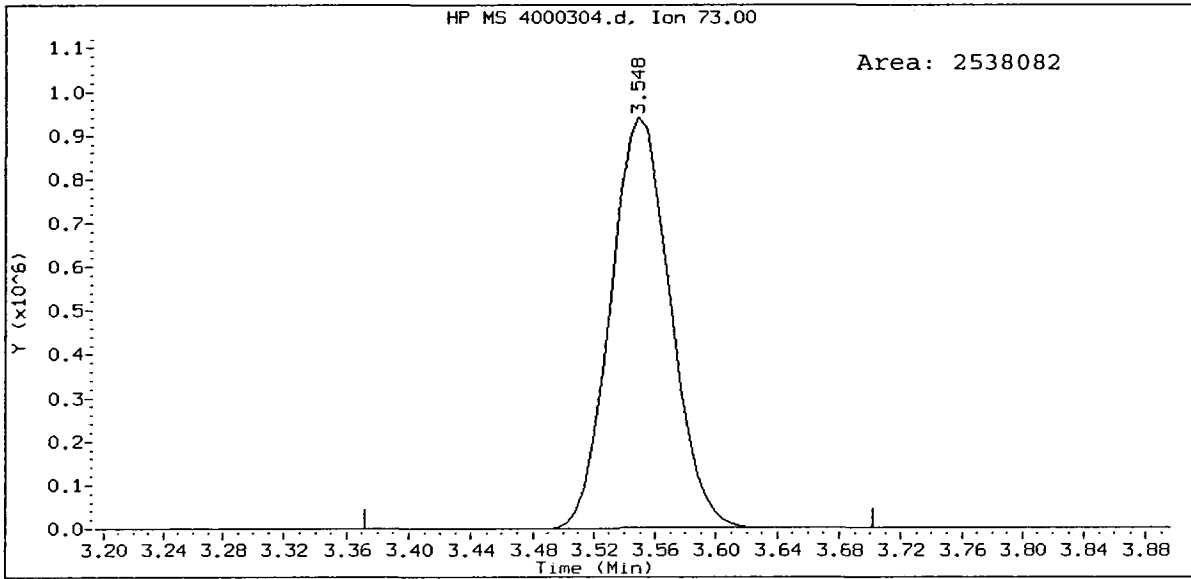


/chem1/nt10.i/04HAR10a.b/4000304.d





IC400, /chem1/nt10.i/04MAR10a.b/4000304.d
Methyl tert butyl ether Amount: 67.55



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/6000304.d
 Lab Smp Id: IC600 Client Smp ID: vstd9
 Inj Date : 04-MAR-2010 20:50
 Operator : ar Inst ID: nt10.i
 Smp Info : IC600,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|-------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | 1.374 | 1.380 | (0.261) | 991618 | 60.0000 | 59.814 (M) |
| 2 Chloromethane | 50 | | 1.533 | 1.539 | (0.291) | 1169984 | 60.0000 | 62.099 |
| 3 Vinyl Chloride | 62 | | 1.602 | 1.602 | (0.304) | 1470239 | 60.0000 | 61.102 |
| 4 Bromomethane | 94 | | 1.881 | 1.881 | (0.357) | 1248482 | 60.0000 | 55.655 |
| 5 Chloroethane | 64 | | 1.989 | 2.000 | (0.378) | 1298583 | 60.0000 | 68.967 |
| 6 Trichlorofluoromethane | 101 | | 2.102 | 2.120 | (0.399) | 2077935 | 60.0000 | 61.772 |
| 8 Acrolein | 56 | | 2.990 | 2.990 | (0.568) | 36965 | 60.0000 | 65.697 |
| 9 112Trichloro122Trifluoroethane | 101 | | 2.655 | 2.660 | (0.504) | 1200999 | 60.0000 | 58.875 |
| 10 Acetone | 43 | | 3.332 | 3.326 | (0.633) | 140171 | 60.0000 | 55.232 |
| 11 1,1-Dichloroethene | 96 | | 2.598 | 2.603 | (0.493) | 1479054 | 60.0000 | 58.900 |
| 12 Bromoethane | 108 | | 2.871 | 2.876 | (0.545) | 910175 | 60.0000 | 61.575 |
| 13 Iodomethane | 142 | | 2.728 | 2.740 | (0.518) | 1641300 | 60.0000 | 55.427 |
| 14 Methylene Chloride | 84 | | 3.241 | 3.246 | (0.615) | 1248412 | 60.0000 | 55.398 |
| 15 Acrylonitrile | 53 | | 4.089 | 4.089 | (0.776) | 161098 | 60.0000 | 65.137 |
| 16 Methyl tert butyl ether | 73 | | 3.548 | 3.548 | (0.674) | 4206938 | 120.000 | 111.97 |
| 17 Carbon Disulfide | 76 | | 2.598 | 2.609 | (0.493) | 4903958 | 60.0000 | 64.305 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| ===== | ---- | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.411 | (0.647) | 1568847 | 60.0000 | 63.061 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.813) | 1018579 | 60.0000 | 64.892 |
| 21 1,1-Dichloroethane | 63 | 4.015 | 4.020 | (0.762) | 2498905 | 60.0000 | 61.873 |
| 22 2-Butanone | 72 | 4.988 | 4.988 | (0.947) | 161671 | 60.0000 | 62.774 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.870) | 854346 | 60.0000 | 65.587 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.854) | 1639291 | 60.0000 | 62.185 |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.272 | (1.000) | 436841 | 10.0000 | |
| 26 Chloroform | 83 | 4.737 | 4.737 | (0.900) | 2655976 | 60.0000 | 62.543 |
| 27 Bromochloromethane | 128 | 4.658 | 4.663 | (0.884) | 1149897 | 120.0000 | 114.66 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 187380 | 10.0000 | 10.155 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.928) | 2152144 | 60.0000 | 63.790 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 2384788 | 60.0000 | 63.111 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.853) | 1798015 | 60.0000 | 64.864 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 160368 | 10.0000 | 9.798 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.945) | 1376855 | 60.0000 | 60.806 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 6478115 | 60.0000 | 61.681 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.659 | (1.000) | 713571 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 1820550 | 60.0000 | 65.533 |
| 37 1,2-Dichloropropane | 63 | 6.001 | 6.007 | (1.061) | 1441800 | 60.0000 | 64.114 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 1837006 | 60.0000 | 63.406 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 567449 | 60.0000 | 62.480 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.468 | (1.144) | 384020 | 60.0000 | 59.555 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.228) | 233817 | 60.0000 | 66.014 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 2078117 | 60.0000 | 68.587 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 869882 | 10.0000 | 9.771 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 4501344 | 60.0000 | 63.422 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 1582826 | 60.0000 | 71.005 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 346862 | 60.0000 | 65.196 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.252) | 848795 | 60.0000 | 62.449 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 1550565 | 60.0000 | 62.978 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 1862856 | 60.0000 | 63.571 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 1086186 | 60.0000 | 65.287 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 762367 | 60.0000 | 63.559 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 638248 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 4562948 | 60.0000 | 62.836 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 8247907 | 60.0000 | 60.457 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 1347780 | 60.0000 | 63.292 |
| 56 m,p-xylene | 106 | 7.856 | 7.850 | (1.018) | 6631831 | 120.0000 | 129.65 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 2858894 | 60.0000 | 61.612 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 4371520 | 60.0000 | 62.338 |
| 60 Isopropyl Benzene | 105 | 8.385 | 8.380 | (0.891) | 6969058 | 60.0000 | 64.141 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 476627 | 60.0000 | 73.056 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.738 | 8.733 | (0.929) | 579471 | 60.0000 | 62.340 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 232168 | 10.0000 | 9.177 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 180425 | 60.0000 | 63.773 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.869 | (0.943) | 135481 | 60.0000 | 79.351 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 7689748 | 60.0000 | 61.675 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.664 | (0.921) | 1371854 | 60.0000 | 66.667 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.829 | 8.824 | (0.938) | 4754191 | 60.0000 | 58.971 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 4836981 | 60.0000 | 62.147 |
| 70 4-Chloro Toluene | 91 | 8.920 | 8.915 | (0.948) | 4235192 | 60.0000 | 63.106 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 3886449 | 60.0000 | 57.333 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.114 | 9.108 | (0.969) | 4424722 | 60.0000 | 58.039 |
| 73 S-Butyl Benzene | 105 | 9.194 | 9.188 | (0.977) | 5578440 | 60.0000 | 55.591 |
| 74 4-Isopropyl Toluene | 119 | 9.302 | 9.296 | (0.988) | 4306238 | 60.0000 | 56.262 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.994) | 2170844 | 60.0000 | 60.844 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.410 | (1.000) | 198024 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.421 | (1.001) | 2064953 | 60.0000 | 61.389 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.620 | (1.022) | 3801878 | 60.0000 | 58.221 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.034) | 155596 | 10.0000 | 10.086 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.035) | 1643183 | 60.0000 | 61.628 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.354 | 10.355 | (1.100) | 63356 | 60.0000 | 72.658 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.884 | 10.878 | (1.157) | 802055 | 60.0000 | 66.334 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.861 | 10.855 | (1.154) | 423329 | 60.0000 | 55.420 |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.184) | 1081490 | 60.0000 | 64.831 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.288 | 11.282 | (1.200) | 509357 | 60.0000 | 60.007 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 6000304.d
 Lab Smp Id: IC600
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: vstd9
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 436841 | -5.41 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 713571 | -4.36 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 638248 | -4.12 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 198024 | -15.97 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10a.b/6000304.d

Date: 04-MAR-2010 20:50

Client ID: vstd9

Sample Info: IC600,10,10,0

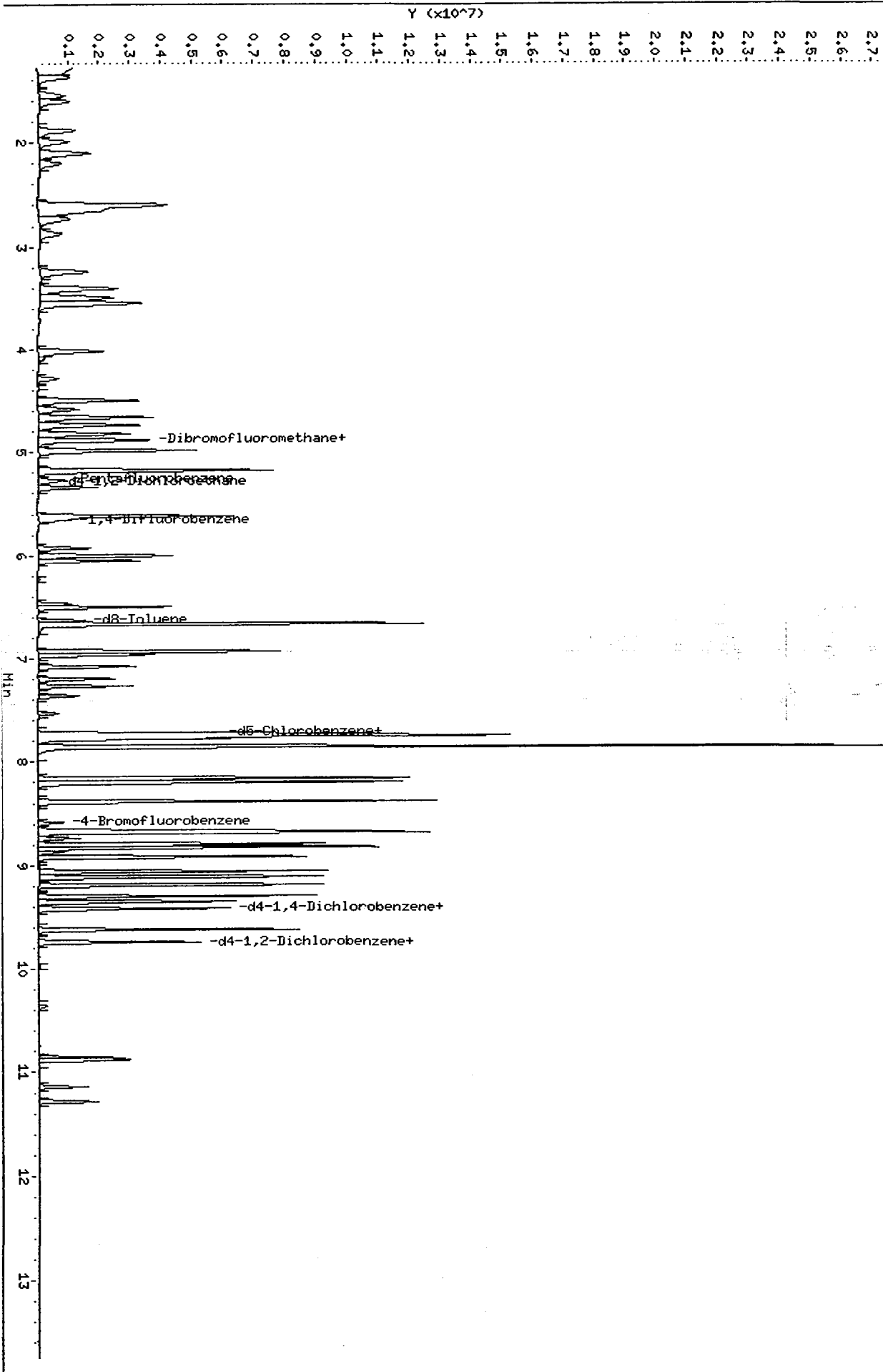
Column phase: RTX502.2

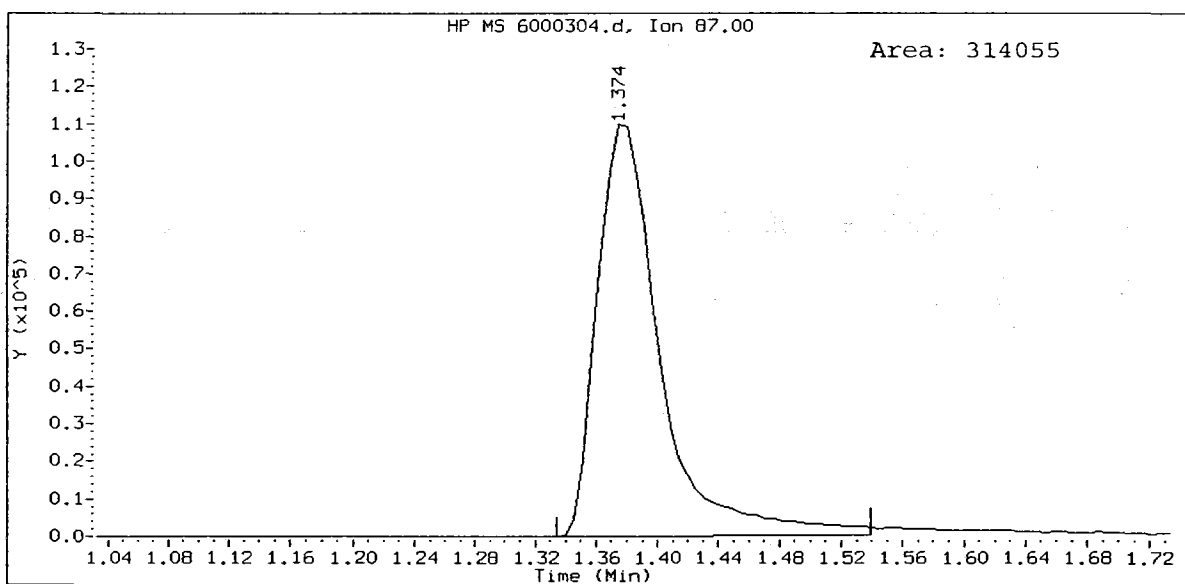
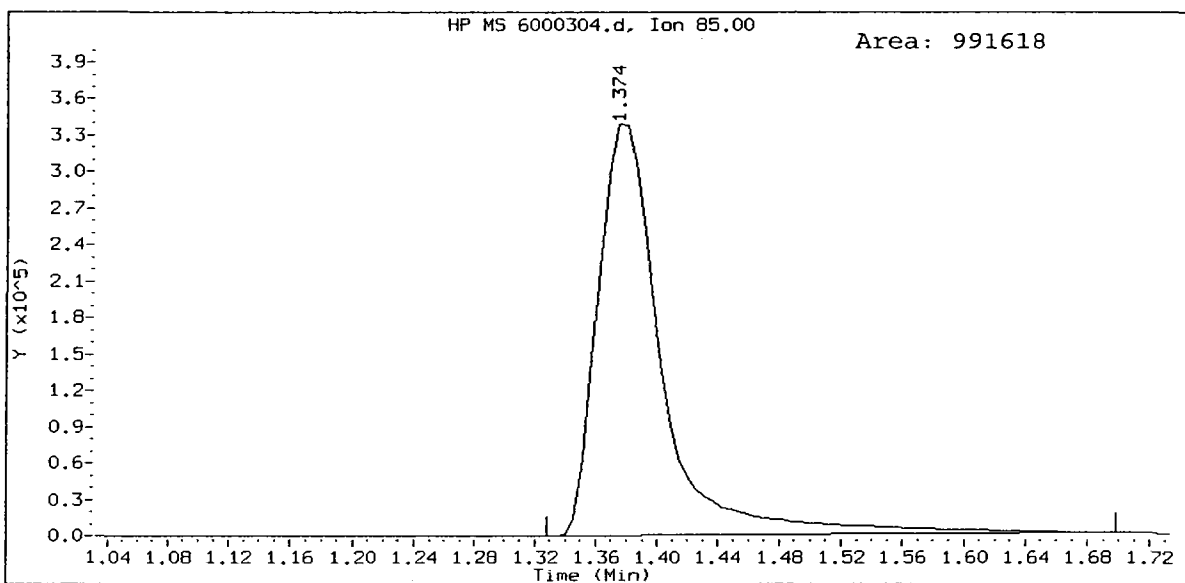
Instrument: nt10.i

Operator: ar

Column diameter: 0.18

/chem1/nt10.i/04MAR10a.b/6000304.d





Data File: /chem1/nt10.i/04MAR10a,b/bfb0304a,d

Date : 04-MAR-2010 17:57

Client ID: BFB0304

Instrument: nt10.i

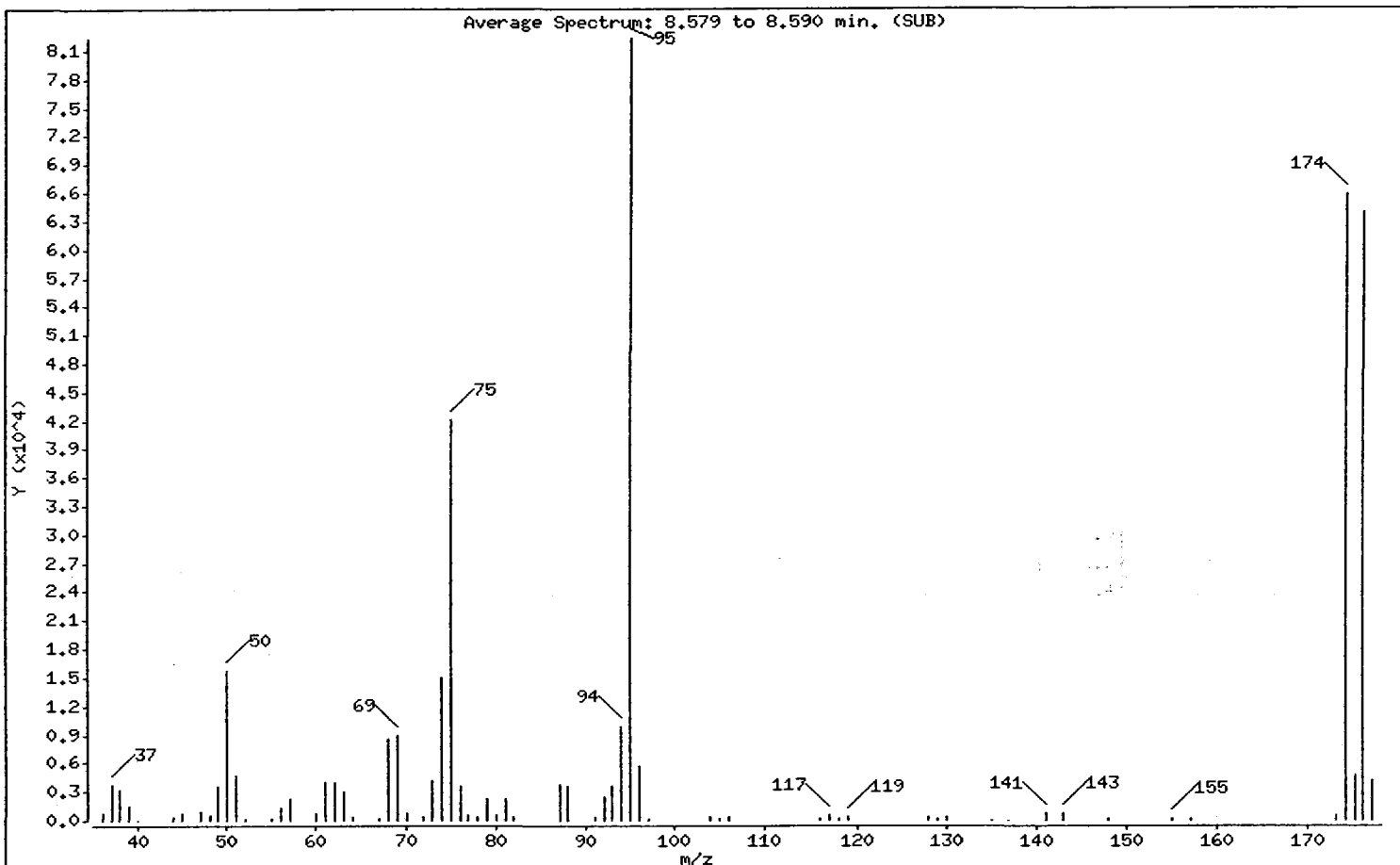
Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 19.09 |
| 75 | 30.00 - 66.00% of mass 95 | 51.25 |
| 96 | 5.00 - 9.00% of mass 95 | 6.85 |
| 173 | Less than 2.00% of mass 174 | 0.74 (0.92) |
| 174 | 50.00 - 101.00% of mass 95 | 79.94 |
| 175 | 4.00 - 9.00% of mass 174 | 5.77 (7.22) |
| 176 | 93.00 - 101.00% of mass 174 | 77.54 (97.00) |
| 177 | 5.00 - 9.00% of mass 176 | 5.17 (6.67) |

Data File: /chem1/nt10.i/04MAR10a,b/bfb0304a.d

Date : 04-MAR-2010 17:57

Client ID: BFB0304

Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0304a.d

Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)

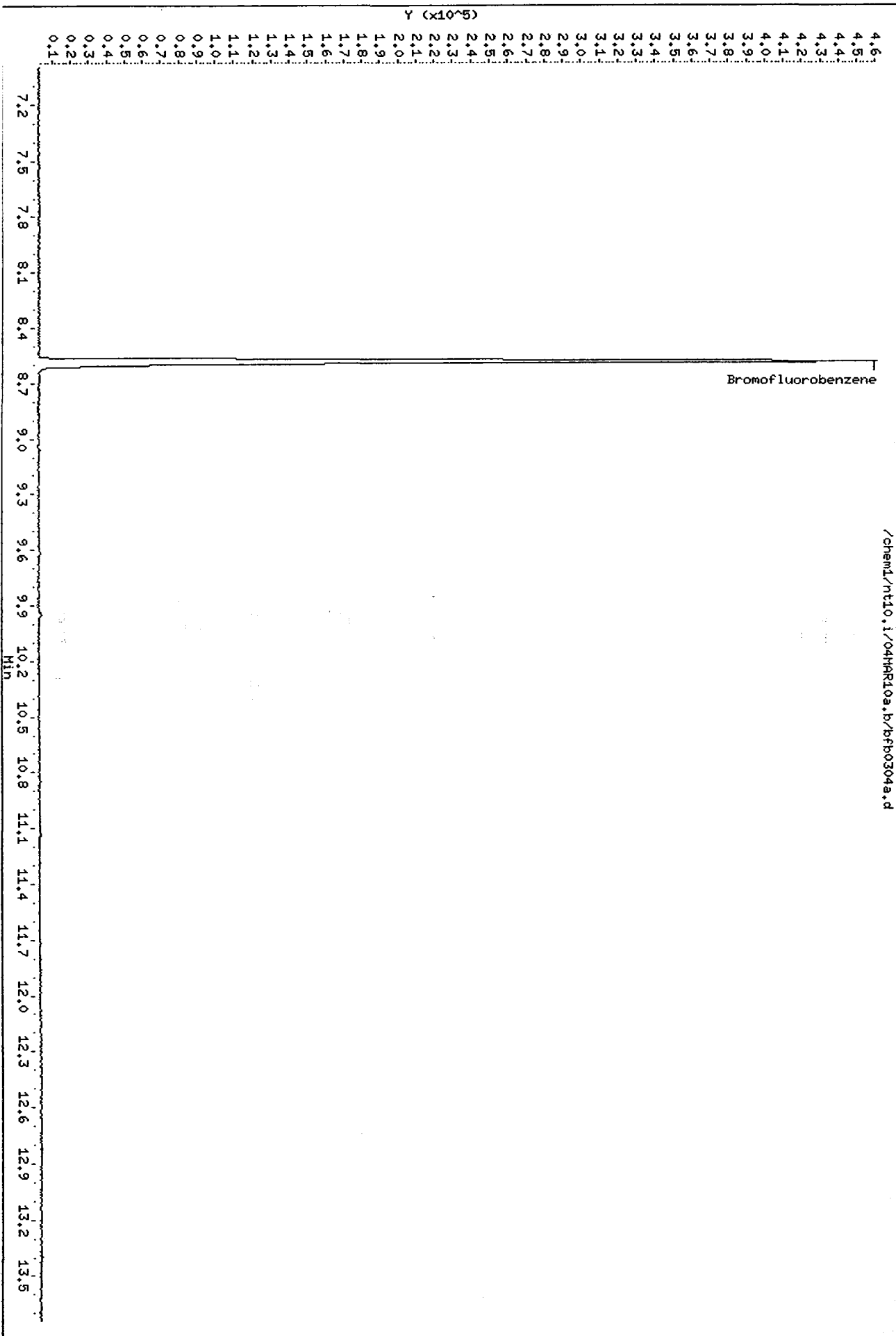
Location of Maximum: 95.00

Number of points: 67

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|-------|--------|-------|
| 36.00 | 711 | 61.00 | 3978 | 81.00 | 2367 | 119.00 | 384 |
| 37.00 | 3759 | 62.00 | 4041 | 82.00 | 427 | 128.00 | 312 |
| 38.00 | 3320 | 63.00 | 3046 | 87.00 | 3750 | 129.00 | 110 |
| 39.00 | 1426 | 64.00 | 308 | 88.00 | 3510 | 130.00 | 318 |
| 40.00 | 26 | 67.00 | 258 | 91.00 | 293 | 135.00 | 50 |
| 44.00 | 325 | 68.00 | 8558 | 92.00 | 2487 | 137.00 | 52 |
| 45.00 | 730 | 69.00 | 8976 | 93.00 | 3618 | 141.00 | 718 |
| 47.00 | 979 | 70.00 | 689 | 94.00 | 9775 | 143.00 | 787 |
| 48.00 | 608 | 72.00 | 391 | 95.00 | 82336 | 148.00 | 216 |
| 49.00 | 3583 | 73.00 | 4096 | 96.00 | 5636 | 155.00 | 190 |
| 50.00 | 15718 | 74.00 | 14917 | 97.00 | 124 | 157.00 | 103 |
| 51.00 | 4749 | 75.00 | 42200 | 104.00 | 366 | 173.00 | 607 |
| 52.00 | 227 | 76.00 | 3681 | 105.00 | 103 | 174.00 | 65816 |
| 55.00 | 198 | 77.00 | 525 | 106.00 | 296 | 175.00 | 4750 |
| 56.00 | 1281 | 78.00 | 296 | 116.00 | 260 | 176.00 | 63840 |
| 57.00 | 2267 | 79.00 | 2360 | 117.00 | 490 | 177.00 | 4260 |
| 60.00 | 806 | 80.00 | 653 | 118.00 | 265 | | |

Data File: /chem1/nt10.i/04HAR10a.b/bfb0304a.d
Date : 04-HAR-2010 17:57
Client ID: BFB0304
Sample Info: BFB0304,BFB0304,,1,04HAR10,,
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/04MAR10a.b/icv0304.d
 Lab Smp Id: ICV0304 Client Smp ID: ICV0304
 Inj Date : 04-MAR-2010 23:47
 Operator : ar Inst ID: nt10.i
 Smp Info : ICV0304,10,10,0
 Misc Info : 09-
 Comment :
 Method : /chem1/nt10.i/04MAR10a.b/82600304L.m
 Meth Date : 11-Mar-2010 11:54 paul Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|---------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 0.00000 | Purge Volume (mL) |
| Sa | 0.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.385 | 1.380 | (0.263) | 122004 | 7.16597 | 7.166 |
| 2 Chloromethane | 50 | 1.545 | 1.539 | (0.293) | 145899 | 7.54044 | 7.540 (M) |
| 3 Vinyl Chloride | 62 | 1.607 | 1.602 | (0.305) | 206274 | 8.34741 | 8.347 (Q) |
| 4 Bromomethane | 94 | 1.886 | 1.881 | (0.358) | 150861 | 7.26660 | 7.267 (Q) |
| 5 Chloroethane | 64 | 2.000 | 2.000 | (0.379) | 160303 | 8.29004 | 8.290 (Q) |
| 6 Trichlorofluoromethane | 101 | 2.125 | 2.120 | (0.403) | 286042 | 8.27995 | 8.280 |
| 8 Acrolein | 56 | 2.996 | 2.990 | (0.568) | 59672 | 103.268 | 103.27 (R) |
| 9 112Trichloro122Trifluoroethane | 101 | 2.666 | 2.660 | (0.506) | 170877 | 8.15668 | 8.157 (Q) |
| 10 Acetone | 43 | 3.326 | 3.326 | (0.631) | 99006 | 37.9870 | 37.987 (R) |
| 11 1,1-Dichloroethene | 96 | 2.609 | 2.603 | (0.495) | 223556 | 8.66881 | 8.669 (Q) |
| 12 Bromoethane | 108 | 2.882 | 2.876 | (0.547) | 133014 | 8.76223 | 8.762 |
| 13 Iodomethane | 142 | 2.740 | 2.740 | (0.520) | 269051 | 8.84723 | 8.847 |
| 14 Methylene Chloride | 84 | 3.252 | 3.246 | (0.617) | 196029 | 8.47023 | 8.470 (Q) |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 24657 | 9.70774 | 9.708 |
| 16 Methyl tert butyl ether | 73 | 3.554 | 3.548 | (0.674) | 337084 | 9.35190 | 9.352 (QRM) |
| 17 Carbon Disulfide | 76 | 2.615 | 2.609 | (0.496) | 716042 | 9.14271 | 9.143 |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 18 Trans-1,2-Dichloroethene | | 96 | 3.411 | 3.411 | (0.647) | 239729 | 9.38306 | 9.383 (Q) |
| 20 Vinyl Acetate | | 43 | 4.282 | 4.282 | (0.812) | 110089 | 6.82938 | 6.829 |
| 21 1,1-Dichloroethane | | 63 | 4.020 | 4.020 | (0.763) | 406554 | 9.80195 | 9.802 |
| 22 2-Butanone | | 72 | 4.994 | 4.988 | (0.947) | 68332 | 25.8351 | 25.835 (QR) |
| 23 2,2-Dichloropropane | | 77 | 4.584 | 4.584 | (0.869) | 113039 | 8.44999 | 8.450 |
| 24 Cis-1,2-Dichloroethene | | 96 | 4.498 | 4.498 | (0.853) | 261668 | 9.66550 | 9.666 (Q) |
| * 25 Pentafluorobenzene | | 168 | 5.272 | 5.272 | (1.000) | 448624 | 10.0000 | |
| 26 Chloroform | | 83 | 4.737 | 4.737 | (0.899) | 445010 | 10.2038 | 10.204 |
| 27 Bromochloromethane | | 128 | 4.663 | 4.663 | (0.884) | 94355 | 10.2948 | 10.295 (QR) |
| \$ 28 Dibromofluoromethane | | 111 | 4.880 | 4.880 | (0.926) | 193433 | 10.2080 | 10.208 |
| 29 1,1,1-Trichloroethane | | 97 | 4.885 | 4.885 | (0.927) | 331104 | 9.55630 | 9.556 |
| 30 1,1-Dichloropropene | | 75 | 4.982 | 4.982 | (0.880) | 378957 | 9.66951 | 9.670 (Q) |
| 31 Carbon Tetrachloride | | 117 | 4.823 | 4.823 | (0.852) | 270669 | 9.41480 | 9.415 (Q) |
| \$ 32 d4-1,2-Dichloroethane | | 65 | 5.289 | 5.289 | (1.003) | 178532 | 10.6215 | 10.621 |
| 33 1,2-Dichloroethane | | 62 | 5.341 | 5.341 | (0.944) | 235881 | 10.0442 | 10.044 (Q) |
| 34 Benzene | | 78 | 5.181 | 5.176 | (0.916) | 1085679 | 9.96700 | 9.967 |
| * 35 1,4-Difluorobenzene | | 114 | 5.659 | 5.659 | (1.000) | 740075 | 10.0000 | |
| 36 Trichloroethene | | 95 | 5.620 | 5.620 | (0.993) | 315381 | 10.9460 | 10.946 (Q) |
| 37 1,2-Dichloropropane | | 63 | 6.001 | 6.007 | (1.060) | 238141 | 10.2103 | 10.210 (Q) |
| 38 Bromodichloromethane | | 83 | 6.052 | 6.052 | (1.069) | 318389 | 10.5960 | 10.596 |
| 39 Dibromomethane | | 93 | 5.927 | 5.927 | (1.047) | 96545 | 10.2495 | 10.249 (Q) |
| 40 2-Chloroethyl Vinyl Ether | | 63 | 6.468 | 6.468 | (1.143) | 73690 | 11.0189 | 11.019 (Q) |
| 41 4-Methyl-2-Pentanone | | 58 | 6.946 | 6.946 | (1.227) | 187141 | 50.9436 | 50.944 (QR) |
| 42 Cis 1,3-dichloropropene | | 75 | 6.502 | 6.502 | (1.149) | 338825 | 10.7822 | 10.782 (Q) |
| \$ 43 d8-Toluene | | 98 | 6.633 | 6.633 | (1.172) | 930077 | 10.0729 | 10.073 |
| 44 Toluene | | 92 | 6.667 | 6.667 | (1.178) | 750166 | 10.1910 | 10.191 |
| 45 Trans 1,3-Dichloropropene | | 75 | 6.963 | 6.963 | (1.230) | 254501 | 11.0080 | 11.008 (Q) |
| 46 2-Hexanone | | 43 | 7.526 | 7.526 | (0.975) | 292524 | 51.5135 | 51.513 (R) |
| 47 1,1,2-Trichloroethane | | 97 | 7.076 | 7.076 | (1.250) | 150154 | 10.6518 | 10.652 (Q) |
| 48 1,3-Dichloropropane | | 76 | 7.264 | 7.264 | (0.941) | 272274 | 10.3611 | 10.361 (Q) |
| 49 Tetrachloroethene | | 166 | 6.928 | 6.928 | (0.898) | 298567 | 9.54595 | 9.546 (Q) |
| 50 Chlorodibromomethane | | 129 | 7.196 | 7.196 | (0.932) | 185477 | 10.4450 | 10.445 (Q) |
| 51 1,2-Dibromoethane | | 107 | 7.361 | 7.361 | (1.301) | 134272 | 10.7934 | 10.793 |
| * 52 d5-Chlorobenzene | | 117 | 7.720 | 7.720 | (1.000) | 681227 | 10.0000 | |
| 53 Chlorobenzene | | 112 | 7.731 | 7.731 | (1.001) | 794797 | 10.2546 | 10.255 (Q) |
| 54 Ethyl Benzene | | 91 | 7.748 | 7.748 | (1.004) | 1506332 | 10.3448 | 10.345 (Q) |
| 55 1,1,1,2-Tetrachloroethane | | 131 | 7.776 | 7.776 | (1.007) | 233904 | 10.2911 | 10.291 (Q) |
| 56 m,p-xylene | | 106 | 7.850 | 7.850 | (1.017) | 1117305 | 20.4656 | 20.466 (Q) |
| 58 o-Xylene | | 106 | 8.158 | 8.158 | (1.057) | 508637 | 10.2701 | 10.270 (Q) |
| 59 Styrene | | 104 | 8.198 | 8.198 | (1.062) | 788215 | 10.5309 | 10.531 (Q) |
| 60 Isopropyl Benzene | | 105 | 8.380 | 8.380 | (0.891) | 1259442 | 9.50118 | 9.501 |
| 61 Bromoform | | 173 | 8.215 | 8.215 | (0.874) | 85052 | 10.6855 | 10.686 (Q) |
| 62 1,1,2,2-Tetrachloroethane | | 83 | 8.733 | 8.733 | (0.929) | 114928 | 10.1344 | 10.134 |
| \$ 63 4-Bromofluorobenzene | | 95 | 8.585 | 8.585 | (1.112) | 276128 | 10.2256 | 10.226 |
| 64 1,2,3-Trichloropropane | | 110 | 8.835 | 8.835 | (0.939) | 36589 | 10.6006 | 10.601 (Q) |
| 65 Trans-1,4-Dichloro 2-Butene | | 53 | 8.863 | 8.869 | (0.942) | 20891 | 9.85465 | 9.855 (Q) |
| 66 N-Propyl Benzene | | 91 | 8.681 | 8.681 | (0.923) | 1570505 | 10.3245 | 10.325 (Q) |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | 8.659 | 8.664 | (0.921) | 265285 | 10.5671 | 10.567 (Q) |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 1020019 | 10.3707 | 10.371 (Q) |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.795 | (0.935) | 983633 | 10.3589 | 10.359 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 863864 | 10.5507 | 10.551 (Q) |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 850369 | 10.2825 | 10.283 (Q) |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 978160 | 10.5167 | 10.517 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 1259761 | 10.2901 | 10.290 (Q) |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 968196 | 10.3686 | 10.369 (Q) |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.353 | (0.995) | 451471 | 10.3719 | 10.372 (Q) |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.410 | (1.000) | 241591 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.415 | 9.421 | (1.001) | 430826 | 10.4983 | 10.498 (Q) |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.620 | (1.022) | 802878 | 10.0779 | 10.078 (Q) |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.734 | (1.035) | 181571 | 9.64693 | 9.647 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.740 | (1.036) | 332638 | 10.2259 | 10.226 (Q) |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.354 | 10.355 | (1.101) | 11638 | 10.9399 | 10.940 (Q) |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.878 | (1.157) | 157644 | 10.6868 | 10.687 (Q) |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.855 | (1.154) | 90437 | 9.70449 | 9.704 (Q) |
| 84 Naphthalene | 128 | 11.140 | 11.140 | (1.185) | 215026 | 10.5654 | 10.565 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.282 | (1.200) | 114224 | 11.0300 | 11.030 (Q) |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: icv0304.d
 Lab Smp Id: ICV0304
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 22:19
 Client Smp ID: ICV0304
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 448624 | -2.85 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 740075 | -0.81 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 681227 | 2.33 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 241591 | 2.52 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: 10 Client SDG: 04MAR10a
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV0304 Client Smp ID: ICV0304
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/04MAR10a.b/82600304L.m
 Misc Info: 09-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 1 Dichlorodifluorome | 10.000 | 7.166 | 71.66 | 59-129 |
| 2 Chloromethane | 10.000 | 7.540 | 75.40 | 66-123 |
| 3 Vinyl Chloride | 10.000 | 8.347 | 83.47 | 68-121 |
| 4 Bromomethane | 10.000 | 7.267 | 72.67 | 55-148 |
| 5 Chloroethane | 10.000 | 8.290 | 82.90 | 47-155 |
| 6 Trichlorofluoromet | 10.000 | 8.280 | 82.80 | 70-129 |
| 8 Acrolein | 10.000 | 103.27 | 1032.68* | 24-170 |
| 9 112Trichloro122Tri | 10.000 | 8.157 | 81.57 | 74-127 |
| 10 Acetone | 10.000 | 37.987 | 379.87* | 70-130 |
| 11 1,1-Dichloroethene | 10.000 | 8.669 | 86.69 | 72-120 |
| 12 Bromoethane | 10.000 | 8.762 | 87.62 | 73-131 |
| 13 Iodomethane | 10.000 | 8.847 | 88.47 | 34-183 |
| 14 Methylene Chloride | 10.000 | 8.470 | 84.70 | 70-124 |
| 15 Acrylonitrile | 10.000 | 9.708 | 97.08 | 71-135 |
| 17 Carbon Disulfide | 10.000 | 9.143 | 91.43 | 66-129 |
| 16 Methyl tert butyl | 20.000 | 9.352 | 46.76* | 78-120 |
| 18 Trans-1,2-Dichloro | 10.000 | 9.383 | 93.83 | 76-120 |
| 20 Vinyl Acetate | 10.000 | 6.829 | 68.29 | 49-134 |
| 21 1,1-Dichloroethane | 10.000 | 9.802 | 98.02 | 75-120 |
| 22 2-Butanone | 10.000 | 25.835 | 258.35* | 78-131 |
| 23 2,2-Dichloropropan | 10.000 | 8.450 | 84.50 | 68-121 |
| 24 Cis-1,2-Dichloroet | 10.000 | 9.666 | 96.66 | 80-120 |
| 26 Chloroform | 10.000 | 10.204 | 102.04 | 78-120 |
| 27 Bromochloromethane | 20.000 | 10.295 | 51.47* | 79-120 |
| 29 1,1,1-Trichloroeth | 10.000 | 9.556 | 95.56 | 76-120 |
| 30 1,1-Dichloropropan | 10.000 | 9.670 | 96.70 | 78-120 |
| 31 Carbon Tetrachlori | 10.000 | 9.415 | 94.15 | 70-126 |
| 33 1,2-Dichloroethane | 10.000 | 10.044 | 100.44 | 78-120 |
| 34 Benzene | 10.000 | 9.967 | 99.67 | 79-120 |
| 36 Trichloroethene | 10.000 | 10.946 | 109.46 | 78-120 |
| 37 1,2-Dichloropropan | 10.000 | 10.210 | 102.10 | 80-120 |
| 38 Bromodichlorometha | 10.000 | 10.596 | 105.96 | 78-120 |
| 39 Dibromomethane | 10.000 | 10.249 | 102.49 | 80-120 |

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 40 2-Chloroethyl Viny | 10.000 | 11.019 | 110.19 | 68-134 |
| 41 4-Methyl-2-Pentano | 10.000 | 50.944 | 509.44* | 73-131 |
| 42 Cis 1,3-dichloropr | 10.000 | 10.782 | 107.82 | 78-120 |
| 44 Toluene | 10.000 | 10.191 | 101.91 | 79-120 |
| 45 Trans 1,3-Dichloro | 10.000 | 11.008 | 110.08 | 75-120 |
| 46 2-Hexanone | 10.000 | 51.513 | 515.13* | 75-130 |
| 47 1,1,2-Trichloroeth | 10.000 | 10.652 | 106.52 | 79-120 |
| 48 1,3-Dichloropropan | 10.000 | 10.361 | 103.61 | 78-120 |
| 49 Tetrachloroethene | 10.000 | 9.546 | 95.46 | 72-120 |
| 50 Chlorodibromometha | 10.000 | 10.445 | 104.45 | 78-120 |
| 51 1,2-Dibromoethane | 10.000 | 10.793 | 107.93 | 75-120 |
| 53 Chlorobenzene | 10.000 | 10.255 | 102.55 | 79-120 |
| 55 1,1,1,2-Tetrachlor | 10.000 | 10.291 | 102.91 | 75-120 |
| 54 Ethyl Benzene | 10.000 | 10.345 | 103.45 | 78-120 |
| 56 m,p-xylene | 20.000 | 20.466 | 102.33 | 65-129 |
| 58 o-Xylene | 10.000 | 10.270 | 102.70 | 76-120 |
| 59 Styrene | 10.000 | 10.531 | 105.31 | 74-121 |
| 60 Isopropyl Benzene | 10.000 | 9.501 | 95.01 | 74-120 |
| 61 Bromoform | 10.000 | 10.686 | 106.86 | 71-120 |
| 62 1,1,2,2-Tetrachlor | 10.000 | 10.134 | 101.34 | 70-120 |
| 64 1,2,3-Trichloropro | 10.000 | 10.601 | 106.01 | 73-120 |
| 65 Trans-1,4-Dichloro | 10.000 | 9.855 | 98.55 | 65-135 |
| 66 N-Propyl Benzene | 10.000 | 10.325 | 103.25 | 76-121 |
| 67 Bromobenzene | 10.000 | 10.567 | 105.67 | 72-120 |
| 68 1,3,5-Trimethyl Be | 10.000 | 10.371 | 103.71 | 74-123 |
| 69 2-Chloro Toluene | 10.000 | 10.359 | 103.59 | 74-120 |
| 70 4-Chloro Toluene | 10.000 | 10.551 | 105.51 | 75-120 |
| 71 T-Butyl Benzene | 10.000 | 10.283 | 102.83 | 73-121 |
| 72 1,2,4-Trimethylben | 10.000 | 10.517 | 105.17 | 73-124 |
| 73 S-Butyl Benzene | 10.000 | 10.290 | 102.90 | 75-123 |
| 74 4-Isopropyl Toluen | 10.000 | 10.369 | 103.69 | 71-125 |
| 75 1,3-Dichlorobenzen | 10.000 | 10.372 | 103.72 | 72-120 |
| 77 1,4-Dichlorobenzen | 10.000 | 10.498 | 104.98 | 76-120 |
| 78 N-Butyl Benzene | 10.000 | 10.078 | 100.78 | 72-124 |
| 80 1,2-Dichlorobenzen | 10.000 | 10.226 | 102.26 | 75-120 |
| 81 1,2-Dibromo 3-Chlo | 10.000 | 10.940 | 109.40 | 67-121 |
| 82 1,2,4-Trichloroben | 10.000 | 10.687 | 106.87 | 71-120 |
| 83 Hexachloro 1,3-But | 10.000 | 9.704 | 97.04 | 67-124 |
| 84 Naphthalene | 10.000 | 10.565 | 105.65 | 71-125 |
| 85 1,2,3-Trichloroben | 10.000 | 11.030 | 110.30 | 61-134 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.208 | 102.08 | 60-130 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 10.621 | 106.21 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 10.073 | 100.73 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.226 | 102.26 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 9.647 | 96.47 | 80-120 |

Data File: /chem1/nt10.i/04HAR10a.b/icv0304.d

Date: 04-MAR-2010 23:47

Client ID: ICV0304

Sample Info: ICV0304,10,10,0

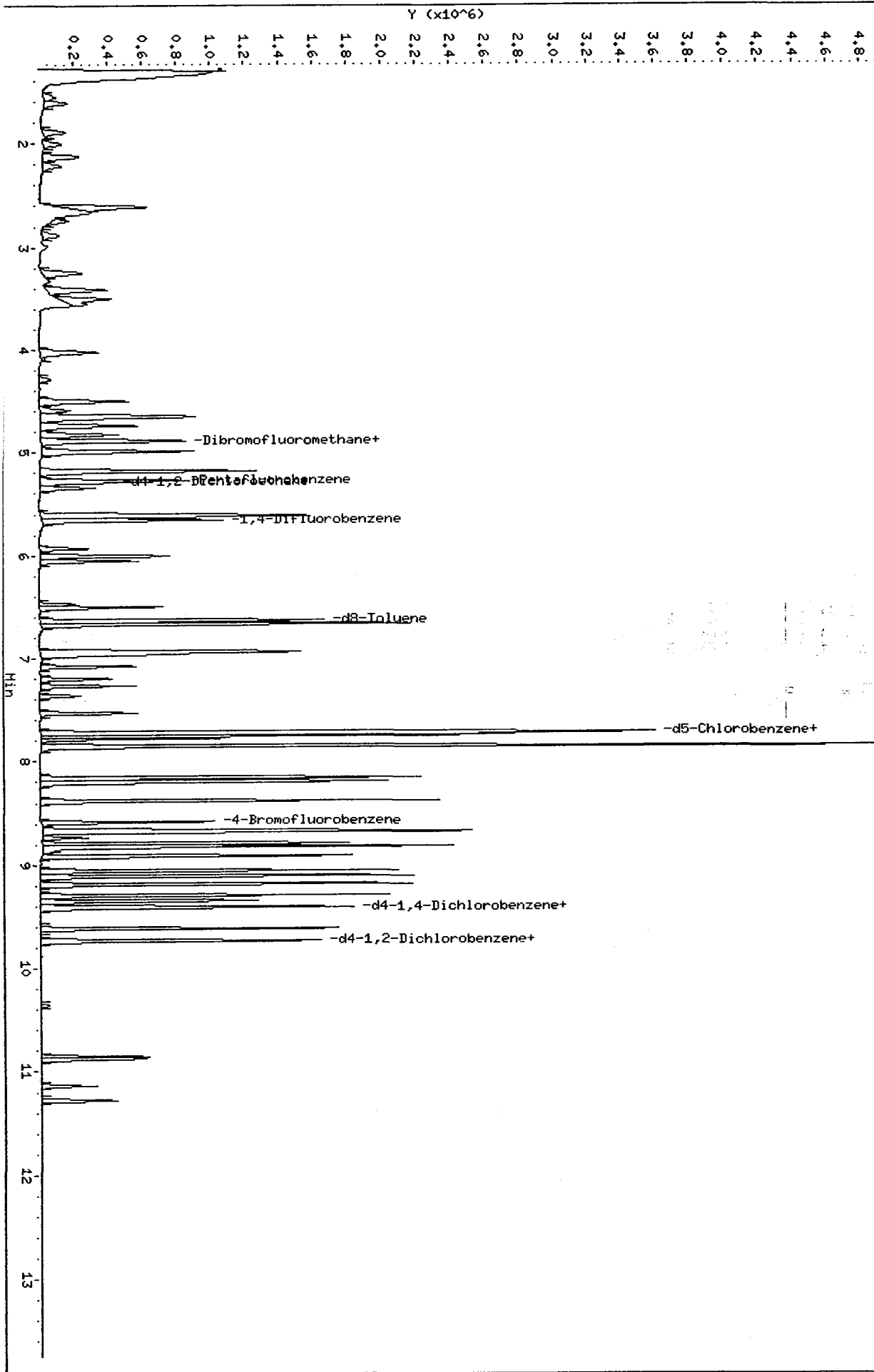
Column phase: RTX502.2

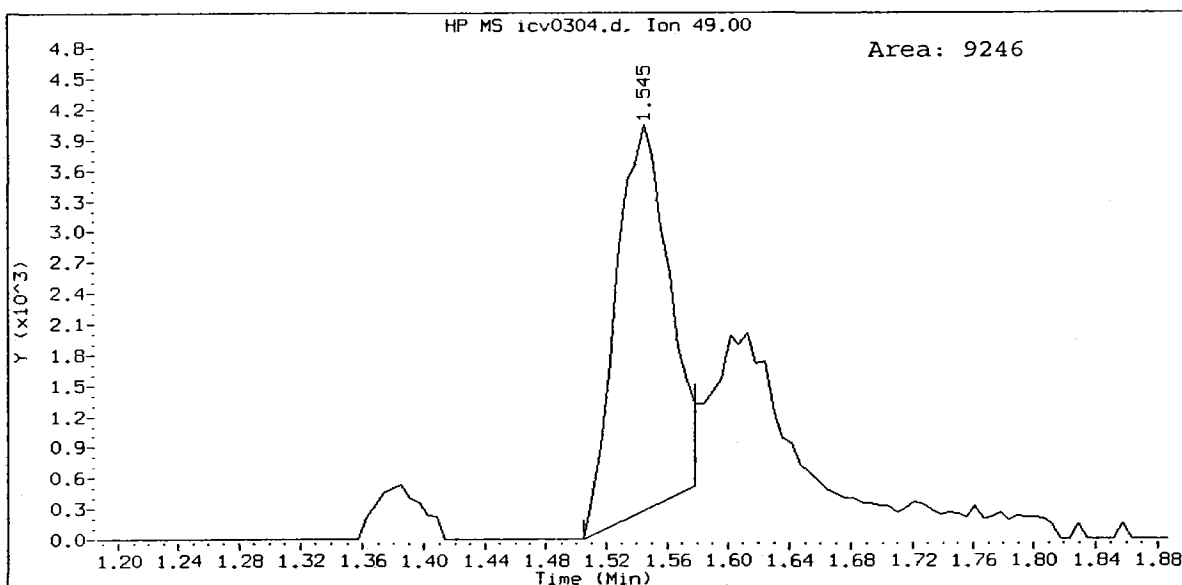
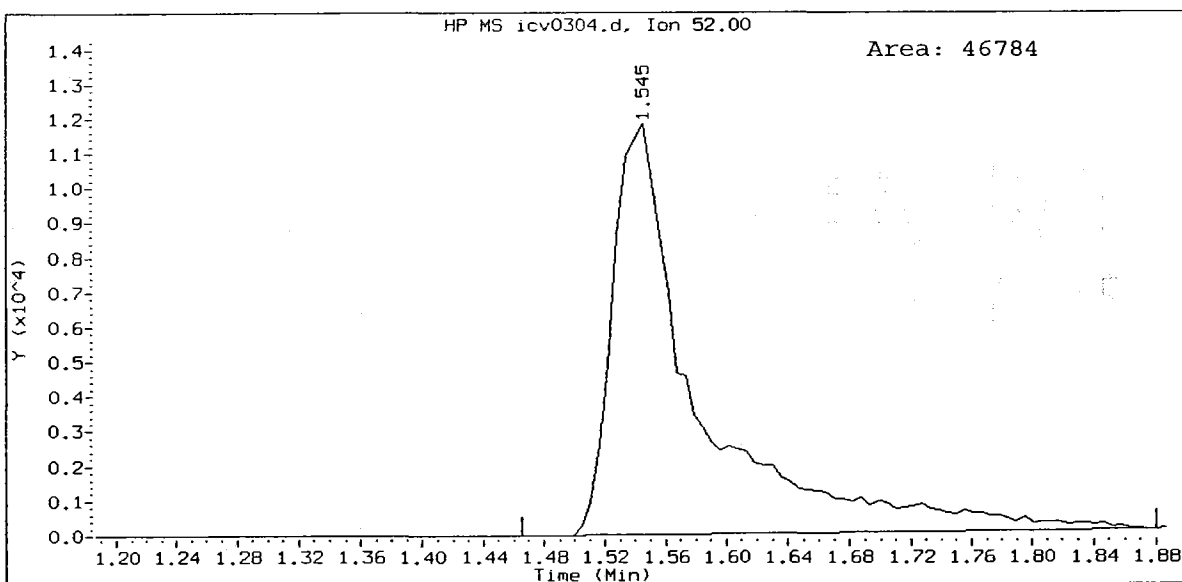
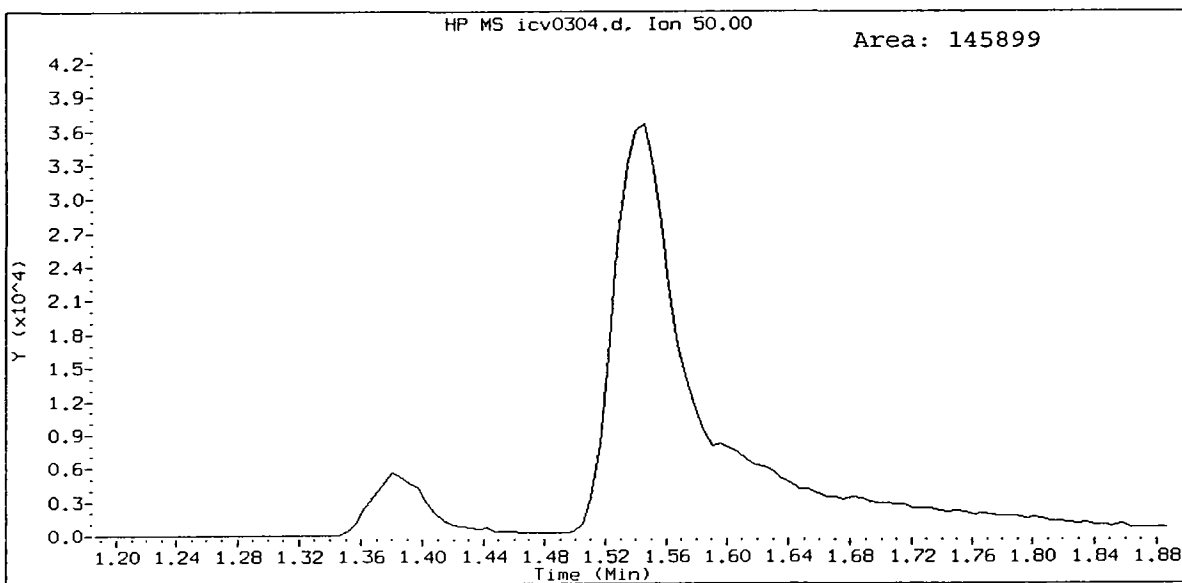
Instrument: nt10.i

Operator: ar

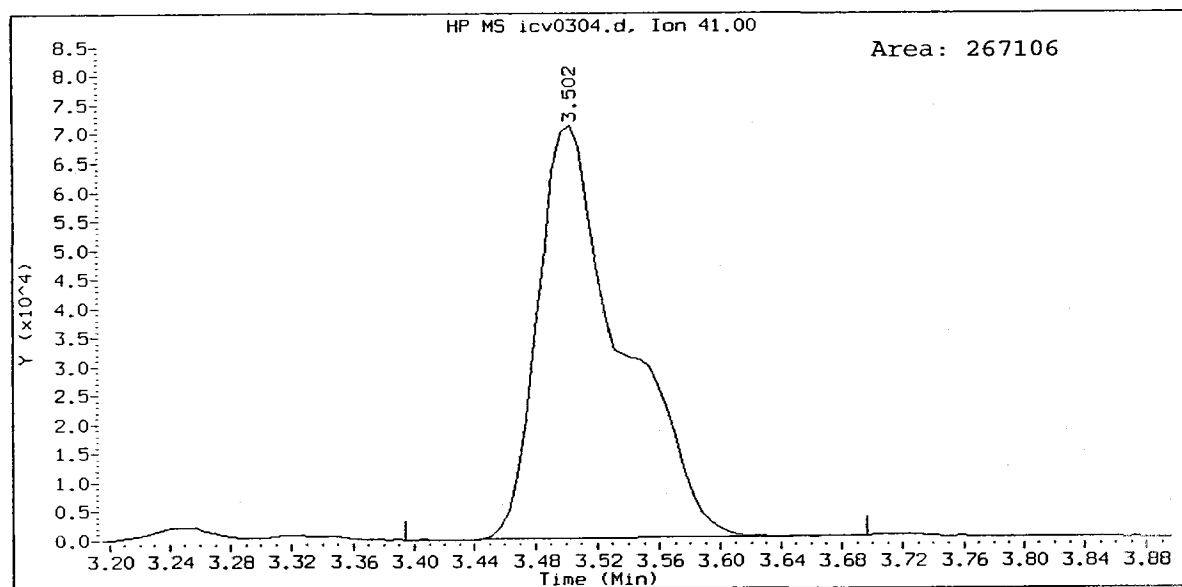
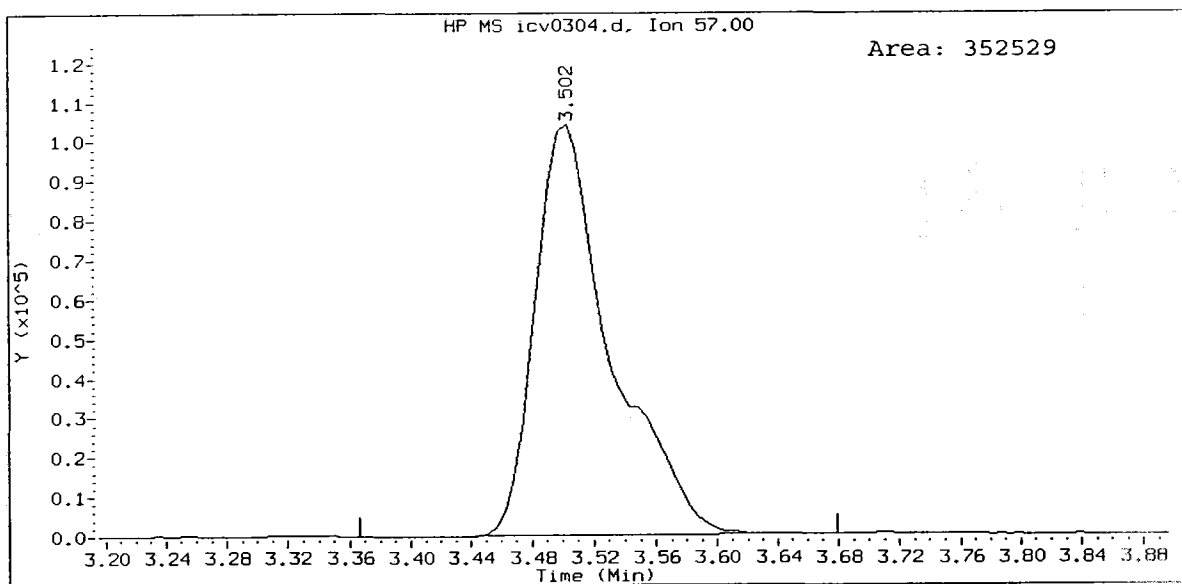
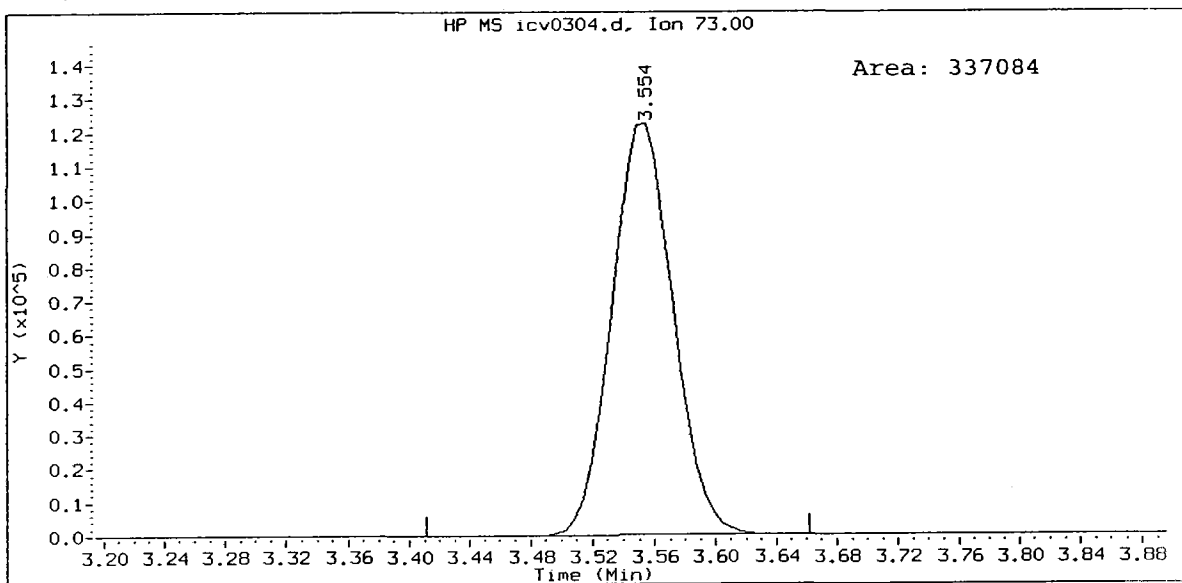
Column diameter: 0.18

/chem1/nt10.i/04HAR10a.b/icv0304.d





ICV0304, /chem1/nt10.i/04MAR10a.b/icv0304.d
Methyl tert butyl ether Amount: 9.35



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/17/10

Init. Calib. Date: 03/04/10

Cont. Calib. Time: 1100

| COMPOUND | Cal Amt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift | |
|-------------------------------------|-------------------|-----------------|------------|---------------|----------------|----|
| Chloromethane | 0.431 | 0.291 | 0.100 | AVRG | -32.5 | <- |
| Vinyl Chloride | 0.551 | 0.472 | 0.010 | AVRG | -14.3 | |
| Bromomethane | 10.000 | 7.966 | 0.010 | LINR | -20.3 | <- |
| Chloroethane | 0.431 | 0.376 | 0.010 | AVRG | -12.8 | |
| Trichlorofluoromethane | 0.770 | 0.656 | 0.010 | AVRG | -14.8 | |
| Acrolein | 0.013 | 0.012 | 0.010 | AVRG | -7.7 | |
| 1,1,2-Trichloro-2,2-Trifluoroethane | 0.467 | 0.435 | 0.010 | AVRG | -6.8 | |
| Acetone | 0.058 | 0.062 | 0.010 | AVRG | 6.9 | |
| 1,1-Dichloroethene | 0.575 | 0.507 | 0.010 | AVRG | -11.8 | |
| Bromoethane | 0.338 | 0.302 | 0.010 | AVRG | -10.6 | |
| Iodomethane | 0.678 | 0.555 | 0.010 | AVRG | -18.1 | |
| Methylene Chloride | 0.516 | 0.436 | 0.010 | AVRG | -15.5 | |
| Acrylonitrile | 0.056 | 0.063 | 0.010 | AVRG | 12.5 | |
| Carbon Disulfide | 1.746 | 1.503 | 0.010 | AVRG | -13.9 | |
| Trans-1,2-Dichloroethene | 0.569 | 0.553 | 0.010 | AVRG | -2.8 | |
| Vinyl Acetate | 0.360 | 0.378 | 0.010 | AVRG | 5.0 | |
| 1,1-Dichloroethane | 0.924 | 0.896 | 0.100 | AVRG | -3.0 | |
| 2-Butanone | 0.059 | 0.061 | 0.010 | AVRG | 3.4 | |
| 2,2-Dichloropropane | 0.298 | 0.374 | 0.010 | AVRG | 25.5 | <- |
| Cis-1,2-Dichloroethene | 0.603 | 0.591 | 0.010 | AVRG | -2.0 | |
| Chloroform | 0.972 | 0.964 | 0.010 | AVRG | -0.8 | |
| Bromochloromethane | 0.204 | 0.216 | 0.010 | AVRG | 5.9 | |
| 1,1,1-Trichloroethane | 0.772 | 0.744 | 0.010 | AVRG | -3.6 | |
| 1,1-Dichloropropene | 0.529 | 0.531 | 0.010 | AVRG | 0.4 | |
| Carbon Tetrachloride | 0.388 | 0.378 | 0.010 | AVRG | -2.6 | |
| 1,2-Dichloroethane | 0.318 | 0.332 | 0.010 | AVRG | 4.4 | |
| Benzene | 1.472 | 1.462 | 0.010 | AVRG | -0.7 | |
| Trichloroethene | 0.390 | 0.416 | 0.010 | AVRG | 6.7 | |
| 1,2-Dichloropropane | 0.315 | 0.322 | 0.010 | AVRG | 2.2 | |
| Bromodichloromethane | 0.406 | 0.413 | 0.010 | AVRG | 1.7 | |
| Dibromomethane | 0.127 | 0.136 | 0.010 | AVRG | 7.1 | |
| 2-Chloroethyl Vinyl Ether | 0.090 | 0.096 | 0.010 | AVRG | 6.7 | |
| 4-Methyl-2-Pentanone | 0.050 | 0.050 | 0.010 | AVRG | 0.0 | |
| Cis 1,3-dichloropropene | 0.425 | 0.474 | 0.010 | AVRG | 11.5 | |
| Toluene | 0.994 | 0.999 | 0.010 | AVRG | 0.5 | |
| Trans 1,3-Dichloropropene | 0.312 | 0.353 | 0.010 | AVRG | 13.1 | |
| 2-Hexanone | 0.083 | 0.086 | 0.010 | AVRG | 3.6 | |

<- 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: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/17/10

Init. Calib. Date: 03/04/10

Cont. Calib. Time: 1100

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|-----------------------------|------------------|-----------------|------------|---------------|----------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1,2-Trichloroethane | 0.191 | 0.202 | 0.010 | AVRG | 5.8 |
| 1,3-Dichloropropane | 0.386 | 0.403 | 0.010 | AVRG | 4.4 |
| Tetrachloroethene | 0.459 | 0.470 | 0.010 | AVRG | 2.4 |
| Chlorodibromomethane | 0.261 | 0.274 | 0.010 | AVRG | 5.0 |
| 1,2-Dibromoethane | 0.168 | 0.181 | 0.010 | AVRG | 7.7 |
| Chlorobenzene | 1.138 | 1.144 | 0.300 | AVRG | 0.5 |
| Ethyl Benzene | 2.138 | 2.148 | 0.010 | AVRG | 0.5 |
| 1,1,1,2-Tetrachloroethane | 0.334 | 0.349 | 0.010 | AVRG | 4.5 |
| m,p-xylene | 0.801 | 0.826 | 0.010 | AVRG | 3.1 |
| o-Xylene | 0.727 | 0.752 | 0.010 | AVRG | 3.4 |
| Styrene | 1.099 | 1.197 | 0.010 | AVRG | 8.9 |
| Bromoform | 0.330 | 0.316 | 0.100 | AVRG | -4.2 |
| 1,1,2,2-Tetrachloroethane | 0.469 | 0.452 | 0.300 | AVRG | -3.6 |
| 1,2,3-Trichloropropane | 0.143 | 0.139 | 0.010 | AVRG | -2.8 |
| Trans-1,4-Dichloro 2-Butene | 10.000 | 9.170 | 0.010 | 2ORDR | -8.3 |
| N-Propyl Benzene | 6.296 | 5.927 | 0.010 | AVRG | -5.9 |
| Bromobenzene | 1.039 | 0.959 | 0.010 | AVRG | -7.7 |
| Isopropyl Benzene | 5.487 | 4.986 | 0.010 | AVRG | -9.1 |
| 2-Chloro Toluene | 3.930 | 3.616 | 0.010 | AVRG | -8.0 |
| 4-Chloro Toluene | 3.389 | 3.199 | 0.010 | AVRG | -5.6 |
| T-Butyl Benzene | 3.423 | 3.252 | 0.010 | AVRG | -5.0 |
| 1,3,5-Trimethyl Benzene | 4.071 | 3.924 | 0.010 | AVRG | -3.6 |
| 1,2,4-Trimethylbenzene | 3.850 | 3.775 | 0.010 | AVRG | -1.9 |
| S-Butyl Benzene | 5.068 | 5.004 | 0.010 | AVRG | -1.3 |
| 4-Isopropyl Toluene | 3.865 | 3.936 | 0.010 | AVRG | 1.8 |
| 1,3-Dichlorobenzene | 1.802 | 1.768 | 0.010 | AVRG | -1.9 |
| 1,4-Dichlorobenzene | 1.698 | 1.703 | 0.010 | AVRG | 0.3 |
| N-Butyl Benzene | 3.298 | 3.505 | 0.010 | AVRG | 6.3 |
| 1,2-Dichlorobenzene | 1.346 | 1.320 | 0.010 | AVRG | -1.9 |
| 1,2-Dibromo 3-Chloropropane | 0.044 | 0.040 | 0.010 | AVRG | -9.1 |
| 1,2,4-Trichlorobenzene | 0.610 | 0.590 | 0.010 | AVRG | -3.3 |
| Hexachloro 1,3-Butadiene | 0.386 | 0.366 | 0.010 | AVRG | -5.2 |
| Naphthalene | 0.842 | 0.758 | 0.010 | AVRG | -10.0 |
| 1,2,3-Trichlorobenzene | 0.429 | 0.422 | 0.010 | AVRG | -1.6 |
| Dichlorodifluoromethane | 0.380 | 0.245 | 0.010 | AVRG | -35.5 |
| Methyl tert butyl ether | 0.803 | 0.731 | 0.010 | AVRG | -9.0 |
| ===== | ===== | ===== | ===== | ===== | ===== |

<- 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: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/17/10

Init. Calib. Date: 03/04/10

Cont. Calib. Time: 1100

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------|------------------|-----------------|------------|---------------|----------------|
| d4-1,2-Dichloroethane | 0.375 | 0.411 | 0.010 | AVRG | 9.6 |
| d8-Toluene | 1.248 | 1.234 | 0.010 | AVRG | -1.1 |
| 4-Bromofluorobenzene | 0.396 | 0.433 | 0.010 | AVRG | 9.3 |
| d4-1,2-Dichlorobenzene | 0.779 | 0.768 | 0.010 | AVRG | -1.4 |
| Dibromofluoromethane | 0.422 | 0.433 | 0.010 | AVRG | 2.6 |

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

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 17-MAR-2010 11:00
 Lab File ID: 1000317.d Init. Cal. Date(s): 04-MAR-2010 04-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 18:51 23:18
 Lab Sample ID: CC0317 Quant Type: ISTD
 Method: /chem1/nt10.i/17MAR10.b/82600304L.m

| COMPOUND | RRF / AMOUNT | RF10 | CCAL RRF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|-------------------------------|--------------|----------|---------------|------------|-------------|--------------------|-------------|
| 1 Dichlorodifluoromethane | 0.37950 | 0.24533 | 0.24533 | 0.010 | -35.35567 | 20.00000 | Averaged <- |
| 2 Chloromethane | 0.43129 | 0.29119 | 0.29119 | 0.100 | -32.48386 | 20.00000 | Averaged <- |
| 3 Vinyl Chloride | 0.55082 | 0.47219 | 0.47219 | 0.100 | -14.27605 | 20.00000 | Averaged |
| 4 Bromomethane | 7.96553 | 10.00000 | 0.36862 | 0.100 | -20.34470 | 20.00000 | Linear <- |
| 5 Chloroethane | 0.43103 | 0.37593 | 0.37593 | 0.010 | -12.78303 | 20.00000 | Averaged |
| 6 Trichlorofluoromethane | 0.77005 | 0.65560 | 0.65560 | 0.010 | -14.86213 | 20.00000 | Averaged |
| 8 Acrolein | 0.01288 | 0.01243 | 0.01243 | 0.000 | -3.48490 | 20.00000 | Averaged |
| 9 112Trichloro122Trifluoroeth | 0.46697 | 0.43499 | 0.43499 | 0.010 | -6.84892 | 20.00000 | Averaged |
| 10 Acetone | 0.05810 | 0.06190 | 0.06190 | 0.001 | 6.54151 | 20.00000 | Averaged |
| 11 1,1-Dichloroethene | 0.57484 | 0.50725 | 0.50725 | 0.100 | -11.75769 | 20.00000 | Averaged |
| 12 Bromoethane | 0.33838 | 0.30256 | 0.30256 | 0.100 | -10.58511 | 20.00000 | Averaged |
| 13 Iodomethane | 0.67787 | 0.55513 | 0.55513 | 0.010 | -18.10648 | 20.00000 | Averaged |
| 14 Methylene Chloride | 0.51587 | 0.43621 | 0.43621 | 0.010 | -15.44188 | 20.00000 | Averaged |
| 15 Acrylonitrile | 0.05662 | 0.06297 | 0.06297 | 0.001 | 11.22228 | 20.00000 | Averaged |
| 16 Methyl tert butyl ether | 0.80344 | 0.73105 | 0.73105 | 0.100 | -9.00989 | 20.00000 | Averaged |
| 17 Carbon Disulfide | 1.74575 | 1.50278 | 1.50278 | 0.010 | -13.91738 | 20.00000 | Averaged |
| 18 Trans-1,2-Dichloroethene | 0.56950 | 0.55290 | 0.55290 | 0.010 | -2.91481 | 20.00000 | Averaged |
| 20 Vinyl Acetate | 0.35932 | 0.37843 | 0.37843 | 0.010 | 5.31791 | 20.00000 | Averaged |
| 21 1,1-Dichloroethane | 0.92453 | 0.89608 | 0.89608 | 0.200 | -3.07806 | 20.00000 | Averaged |
| 22 2-Butanone | 0.05896 | 0.06080 | 0.06080 | 0.001 | 3.12156 | 20.00000 | Averaged |
| 23 2,2-Dichloropropane | 0.29819 | 0.37370 | 0.37370 | 0.010 | 25.32273 | 20.00000 | Averaged <- |
| 24 Cis-1,2-Dichloroethene | 0.60345 | 0.59082 | 0.59082 | 0.010 | -2.09420 | 20.00000 | Averaged |
| 26 Chloroform | 0.97213 | 0.96374 | 0.96374 | 0.200 | -0.86290 | 20.00000 | Averaged |
| 27 Bromochloromethane | 0.20430 | 0.21570 | 0.21570 | 0.050 | 5.58248 | 20.00000 | Averaged |
| \$ 28 Dibromofluoromethane | 0.42238 | 0.43282 | 0.43282 | 0.100 | 2.47030 | 20.00000 | Averaged |
| 29 1,1,1-Trichloroethane | 0.77231 | 0.74408 | 0.74408 | 0.100 | -3.65474 | 20.00000 | Averaged |
| 30 1,1-Dichloropropene | 0.52955 | 0.53106 | 0.53106 | 0.010 | 0.28510 | 20.00000 | Averaged |
| 31 Carbon Tetrachloride | 0.38846 | 0.37841 | 0.37841 | 0.100 | -2.58801 | 20.00000 | Averaged |
| \$ 32 d4-1,2-Dichloroethane | 0.37467 | 0.41108 | 0.41108 | 0.010 | 9.71689 | 20.00000 | Averaged |
| 33 1,2-Dichloroethane | 0.31732 | 0.33185 | 0.33185 | 0.100 | 4.57666 | 20.00000 | Averaged |
| 34 Benzene | 1.47184 | 1.46250 | 1.46250 | 0.500 | -0.63470 | 20.00000 | Averaged |
| 36 Trichloroethene | 0.38932 | 0.41589 | 0.41589 | 0.100 | 6.82662 | 20.00000 | Averaged |
| 37 1,2-Dichloropropane | 0.31515 | 0.32216 | 0.32216 | 0.100 | 2.22501 | 20.00000 | Averaged |
| 38 Bromodichloromethane | 0.40601 | 0.41303 | 0.41303 | 0.100 | 1.72795 | 20.00000 | Averaged |
| 39 Dibromomethane | 0.12728 | 0.13654 | 0.13654 | 0.010 | 7.27467 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 17-MAR-2010 11:00
 Lab File ID: 1000317.d Init. Cal. Date(s): 04-MAR-2010 04-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 18:51 23:18
 Lab Sample ID: CC0317 Quant Type: ISTD
 Method: /chem1/nt10.i/17MAR10.b/82600304L.m

| COMPOUND | RRF / AMOUNT | RF10 | CCAL RRF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|--------------------------------|--------------|----------|---------------|------------|-------------|--------------------|------------|
| 40 2-Chloroethyl Vinyl Ether | 0.09036 | 0.09593 | 0.09593 | 0.000 | 6.15986 | 20.00000 | Averaged |
| 41 4-Methyl-2-Pentanone | 0.04964 | 0.05037 | 0.05037 | 0.000 | 1.48214 | 20.00000 | Averaged |
| 42 Cis 1,3-dichloropropene | 0.42461 | 0.47395 | 0.47395 | 0.200 | 11.62040 | 20.00000 | Averaged |
| 43 d8-Toluene | 1.24764 | 1.23444 | 1.23444 | 0.010 | -1.05793 | 20.00000 | Averaged |
| 44 Toluene | 0.99464 | 0.99942 | 0.99942 | 0.400 | 0.48050 | 20.00000 | Averaged |
| 45 Trans 1,3-Dichloropropene | 0.31240 | 0.35262 | 0.35262 | 0.010 | 12.87509 | 20.00000 | Averaged |
| 46 2-Hexanone | 0.08336 | 0.08597 | 0.08597 | 0.010 | 3.13872 | 20.00000 | Averaged |
| 47 1,1,2-Trichloroethane | 0.19048 | 0.20167 | 0.20167 | 0.100 | 5.87891 | 20.00000 | Averaged |
| 48 1,3-Dichloropropane | 0.38575 | 0.40297 | 0.40297 | 0.100 | 4.46212 | 20.00000 | Averaged |
| 49 Tetrachloroethene | 0.45912 | 0.46994 | 0.46994 | 0.200 | 2.35482 | 20.00000 | Averaged |
| 50 Chlorodibromomethane | 0.26067 | 0.27381 | 0.27381 | 0.100 | 5.04086 | 20.00000 | Averaged |
| 51 1,2-Dibromoethane | 0.16809 | 0.18097 | 0.18097 | 0.010 | 7.66050 | 20.00000 | Averaged |
| 53 Chlorobenzene | 1.13775 | 1.14390 | 1.14390 | 0.500 | 0.54082 | 20.00000 | Averaged |
| 54 Ethyl Benzene | 2.13750 | 2.14783 | 2.14783 | 0.100 | 0.48329 | 20.00000 | Averaged |
| 55 1,1,1,2-Tetrachloroethane | 0.33364 | 0.34926 | 0.34926 | 0.010 | 4.68137 | 20.00000 | Averaged |
| 56 m,p-xylene | 0.80141 | 0.82601 | 0.82601 | 0.300 | 3.06900 | 20.00000 | Averaged |
| 58 o-Xylene | 0.72701 | 0.75252 | 0.75252 | 0.300 | 3.50881 | 20.00000 | Averaged |
| 59 Styrene | 1.09873 | 1.19666 | 1.19666 | 0.300 | 8.91370 | 20.00000 | Averaged |
| 60 Isopropyl Benzene | 5.48681 | 4.98592 | 4.98592 | 0.010 | -9.12889 | 20.00000 | Averaged |
| 61 Bromoform | 0.32946 | 0.31597 | 0.31597 | 0.010 | -4.09555 | 20.00000 | Averaged |
| 62 1,1,2,2-Tetrachloroethane | 0.46940 | 0.45212 | 0.45212 | 0.100 | -3.68174 | 20.00000 | Averaged |
| 63 4-Bromofluorobenzene | 0.39640 | 0.43314 | 0.43314 | 0.200 | 9.26994 | 20.00000 | Averaged |
| 64 1,2,3-Trichloropropane | 0.14287 | 0.13912 | 0.13912 | 0.010 | -2.62819 | 20.00000 | Averaged |
| 65 Trans-1,4-Dichloro 2-Butene | 9.16992 | 10.00000 | 0.08027 | 0.001 | -8.30078 | 20.00000 | Quadratic |
| 66 N-Propyl Benzene | 6.29634 | 5.92701 | 5.92701 | 0.010 | -5.86578 | 20.00000 | Averaged |
| 67 Bromobenzene | 1.03915 | 0.95927 | 0.95927 | 0.010 | -7.68668 | 20.00000 | Averaged |
| 68 1,3,5-Trimethyl Benzene | 4.07117 | 3.92443 | 3.92443 | 0.010 | -3.60436 | 20.00000 | Averaged |
| 69 2-Chloro Toluene | 3.93043 | 3.61588 | 3.61588 | 0.010 | -8.00296 | 20.00000 | Averaged |
| 70 4-Chloro Toluene | 3.38911 | 3.19929 | 3.19929 | 0.010 | -5.60067 | 20.00000 | Averaged |
| 71 T-Butyl Benzene | 3.42316 | 3.25217 | 3.25217 | 0.010 | -4.99528 | 20.00000 | Averaged |
| 72 1,2,4-Trimethylbenzene | 3.84990 | 3.77462 | 3.77462 | 0.010 | -1.95552 | 20.00000 | Averaged |
| 73 S-Butyl Benzene | 5.06743 | 5.00358 | 5.00358 | 0.010 | -1.25998 | 20.00000 | Averaged |
| 74 4-Isopropyl Toluene | 3.86512 | 3.93571 | 3.93571 | 0.010 | 1.82627 | 20.00000 | Averaged |
| 75 1,3-Dichlorobenzene | 1.80174 | 1.76811 | 1.76811 | 0.600 | -1.86666 | 20.00000 | Averaged |
| 77 1,4-Dichlorobenzene | 1.69864 | 1.70310 | 1.70310 | 0.500 | 0.26283 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 17-MAR-2010 11:00
 Lab File ID: 1000317.d Init. Cal. Date(s): 04-MAR-2010 04-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 18:51 23:18
 Lab Sample ID: CC0317 Quant Type: ISTD
 Method: /chem1/nt10.i/17MAR10.b/82600304L.m

| COMPOUND | ___ | | CCAL | MIN | MAX | | CURVE TYPE |
|--------------------------------|--------------|---------|---------|-------|-------------|-------------|------------|
| | RRF / AMOUNT | RF10 | RRF10 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 78 N-Butyl Benzene | 3.29760 | 3.50466 | 3.50466 | 0.010 | 6.27904 | 20.00000 | Averaged |
| \$ 79 d4-1,2-Dichlorobenzene | 0.77907 | 0.76821 | 0.76821 | 0.010 | -1.39355 | 20.00000 | Averaged |
| 80 1,2-Dichlorobenzene | 1.34645 | 1.31958 | 1.31958 | 0.400 | -1.99601 | 20.00000 | Averaged |
| 81 1,2-Dibromo 3-Chloropropane | 0.04403 | 0.04043 | 0.04043 | 0.010 | -8.18622 | 20.00000 | Averaged |
| 82 1,2,4-Trichlorobenzene | 0.61059 | 0.59032 | 0.59032 | 0.010 | -3.31921 | 20.00000 | Averaged |
| 83 Hexachloro 1,3-Butadiene | 0.38574 | 0.36603 | 0.36603 | 0.010 | -5.10892 | 20.00000 | Averaged |
| 84 Naphthalene | 0.84241 | 0.75855 | 0.75855 | 0.010 | -9.95461 | 20.00000 | Averaged |
| 85 1,2,3-Trichlorobenzene | 0.42865 | 0.42247 | 0.42247 | 0.010 | -1.44219 | 20.00000 | Averaged |

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/17MAR10.b/1000317.d
 Lab Smp Id: CC0317 Client Smp ID: CC0317
 Inj Date : 17-MAR-2010 11:00
 Operator : ar Inst ID: nt10.i
 Smp Info : CC0317,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|-------|---------------|--------|---------|-------------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.374 | 1.374 (0.261) | 95061 | 10.0000 | 6.464 (M) | | |
| 2 Chloromethane | 50 | 1.533 | 1.533 (0.291) | 112833 | 10.0000 | 6.752 (M) | | |
| 3 Vinyl Chloride | 62 | 1.596 | 1.596 (0.303) | 182966 | 10.0000 | 8.572 (M) | | |
| 4 Bromomethane | 94 | 1.875 | 1.875 (0.356) | 142835 | 10.0000 | 7.966 (M) | | |
| 5 Chloroethane | 64 | 1.989 | 1.989 (0.378) | 145667 | 10.0000 | 8.722 (M) | | |
| 6 Trichlorofluoromethane | 101 | 2.114 | 2.114 (0.401) | 254039 | 10.0000 | 8.514 | | |
| 8 Acrolein | 56 | 2.979 | 2.979 (0.566) | 4817 | 10.0000 | 9.652 | | |
| 9 112Trichloro122Trifluoroethane | 101 | 2.654 | 2.654 (0.504) | 168552 | 10.0000 | 9.315 | | |
| 10 Acetone | 43 | 3.320 | 3.320 (0.630) | 23984 | 10.0000 | 10.654 | | |
| 11 1,1-Dichloroethene | 96 | 2.598 | 2.598 (0.493) | 196553 | 10.0000 | 8.824 | | |
| 12 Bromoethane | 108 | 2.871 | 2.871 (0.545) | 117238 | 10.0000 | 8.941 | | |
| 13 Iodomethane | 142 | 2.734 | 2.734 (0.519) | 215106 | 10.0000 | 8.189 | | |
| 14 Methylene Chloride | 84 | 3.241 | 3.241 (0.615) | 169027 | 10.0000 | 8.456 | | |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 (0.776) | 24400 | 10.0000 | 11.122 | | |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 (0.674) | 566550 | 20.0000 | 18.198 (QM) | | |
| 17 Carbon Disulfide | 76 | 2.603 | 2.603 (0.494) | 582311 | 10.0000 | 8.608 | | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|--------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.406 | (0.647) | 214242 | 10.0000 | 9.709 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.813) | 146636 | 10.0000 | 10.532 |
| 21 1,1-Dichloroethane | 63 | 4.015 | 4.015 | (0.762) | 347219 | 10.0000 | 9.692 |
| 22 2-Butanone | 72 | 4.982 | 4.982 | (0.946) | 23558 | 10.0000 | 10.312 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.870) | 144803 | 10.0000 | 12.532 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.854) | 228934 | 10.0000 | 9.791 |
| * 25 Pentafluorobenzene | 168 | 5.267 | 5.267 | (1.000) | 387488 | 10.0000 | |
| 26 Chloroform | 83 | 4.732 | 4.732 | (0.898) | 373439 | 10.0000 | 9.914 |
| 27 Bromochloromethane | 128 | 4.658 | 4.658 | (0.884) | 167165 | 20.0000 | 21.116 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.927) | 167711 | 10.0000 | 10.247 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.928) | 288324 | 10.0000 | 9.635 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.881) | 342364 | 10.0000 | 10.029 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.853) | 243953 | 10.0000 | 9.741 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.004) | 159287 | 10.0000 | 10.972 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.945) | 213934 | 10.0000 | 10.458 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 942840 | 10.0000 | 9.937 |
| * 35 1,4-Difluorobenzene | 114 | 5.654 | 5.654 | (1.000) | 644677 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.994) | 268117 | 10.0000 | 10.683 |
| 37 1,2-Dichloropropane | 63 | 6.001 | 6.001 | (1.061) | 207691 | 10.0000 | 10.223 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.070) | 266270 | 10.0000 | 10.173 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.048) | 88022 | 10.0000 | 10.727 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.467 | 6.467 | (1.144) | 61844 | 10.0000 | 10.616 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.228) | 32474 | 10.0000 | 10.148 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.150) | 305547 | 10.0000 | 11.162 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.173) | 795816 | 10.0000 | 9.894 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.179) | 644303 | 10.0000 | 10.048 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.232) | 227325 | 10.0000 | 11.288 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 51021 | 10.0000 | 10.314 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.252) | 130014 | 10.0000 | 10.588 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 239137 | 10.0000 | 10.446 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 278880 | 10.0000 | 10.235 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 162490 | 10.0000 | 10.504 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.302) | 116667 | 10.0000 | 10.766 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 593442 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 678838 | 10.0000 | 10.054 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1274612 | 10.0000 | 10.048 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 207267 | 10.0000 | 10.468 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 980376 | 20.0000 | 20.614 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 446579 | 10.0000 | 10.351 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 710150 | 10.0000 | 10.891 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 1229429 | 10.0000 | 9.087 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 77912 | 10.0000 | 9.590 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.732 | 8.732 | (0.929) | 111484 | 10.0000 | 9.632 |
| ; 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 257046 | 10.0000 | 10.927 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 34303 | 10.0000 | 9.737 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.863 | 8.863 | (0.942) | 19794 | 10.0000 | 9.170 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1461483 | 10.0000 | 9.413 |

| Compounds | QUANT SIG | | | AMOUNTS | | |
|--------------------------------|-----------|--------|----------------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ug/L) | ON-COL (ug/L) |
| 67 Bromobenzene | 156 | 8.659 | 8.659 (0.921) | 236537 | 10.0000 | 9.231 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 (0.938) | 967686 | 10.0000 | 9.640 |
| 69 2-Chloro Toluene | 91 | 8.789 | 8.789 (0.935) | 891603 | 10.0000 | 9.200 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 (0.948) | 788882 | 10.0000 | 9.440 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 (0.963) | 801919 | 10.0000 | 9.500 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 (0.969) | 930745 | 10.0000 | 9.804 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 (0.977) | 1233782 | 10.0000 | 9.874 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 (0.988) | 970468 | 10.0000 | 10.183 |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.347 (0.994) | 435980 | 10.0000 | 9.813 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 (1.000) | 246580 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.415 | 9.415 (1.001) | 419951 | 10.0000 | 10.026 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.615 (1.022) | 864179 | 10.0000 | 10.628 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.728 | 9.728 (1.034) | 189426 | 10.0000 | 9.861 |
| 80 1,2-Dichlorobenzene | 146 | 9.734 | 9.734 (1.035) | 325381 | 10.0000 | 9.800 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.349 | 10.349 (1.100) | 9969 | 10.0000 | 9.181 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.872 | 10.872 (1.156) | 145561 | 10.0000 | 9.668 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.850 | 10.850 (1.154) | 90256 | 10.0000 | 9.489 |
| 84 Naphthalene | 128 | 11.134 | 11.134 (1.184) | 187044 | 10.0000 | 9.005 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.276 | 11.276 (1.199) | 104172 | 10.0000 | 9.856 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 1000317.d
 Lab Smp Id: CC0317
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-

Calibration Date: 17-MAR-2010
 Calibration Time: 11:00
 Client Smp ID: CC0317
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 387488 | -16.09 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 644677 | -13.60 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 593442 | -10.85 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 246580 | 4.63 |

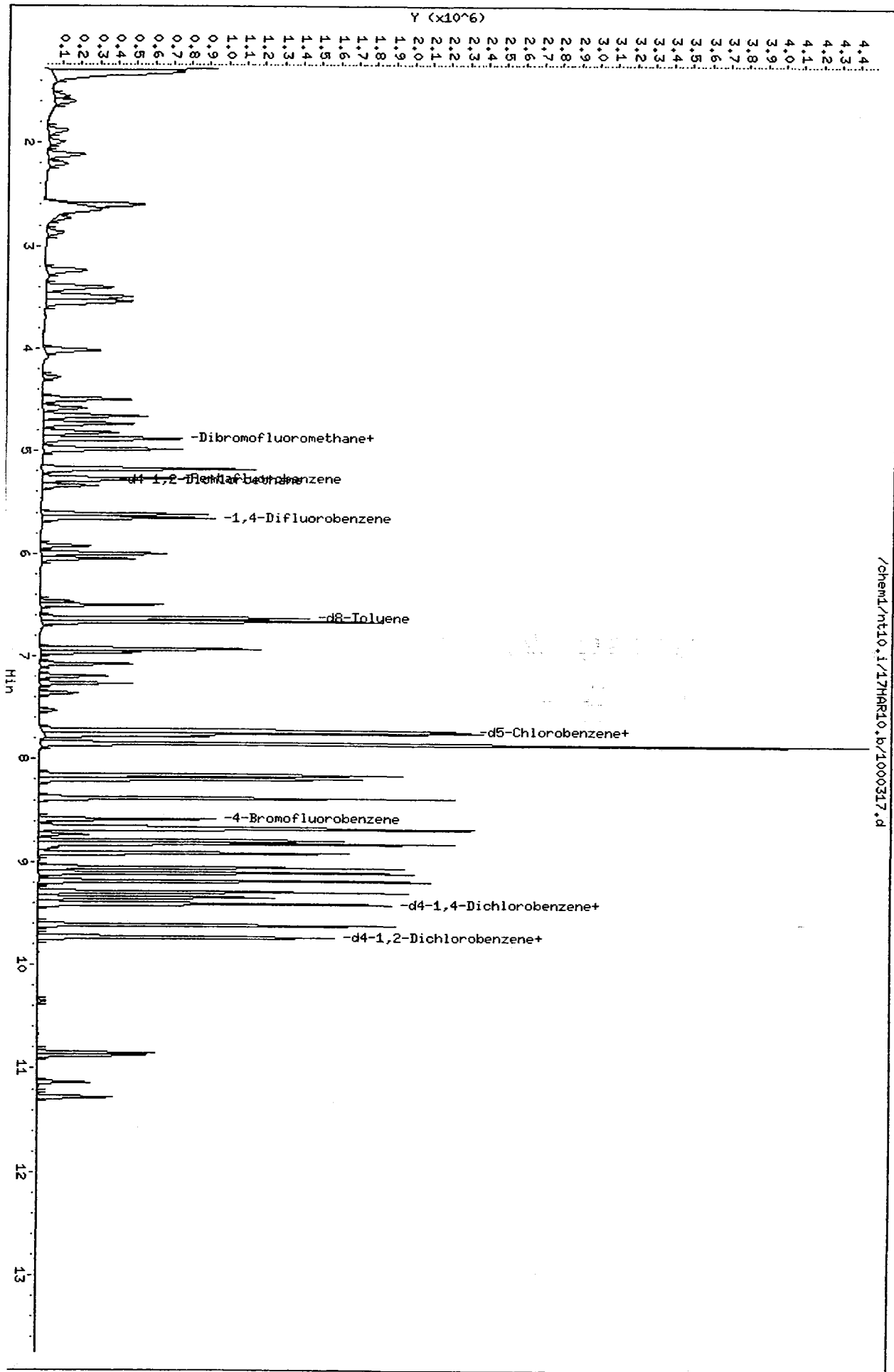
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

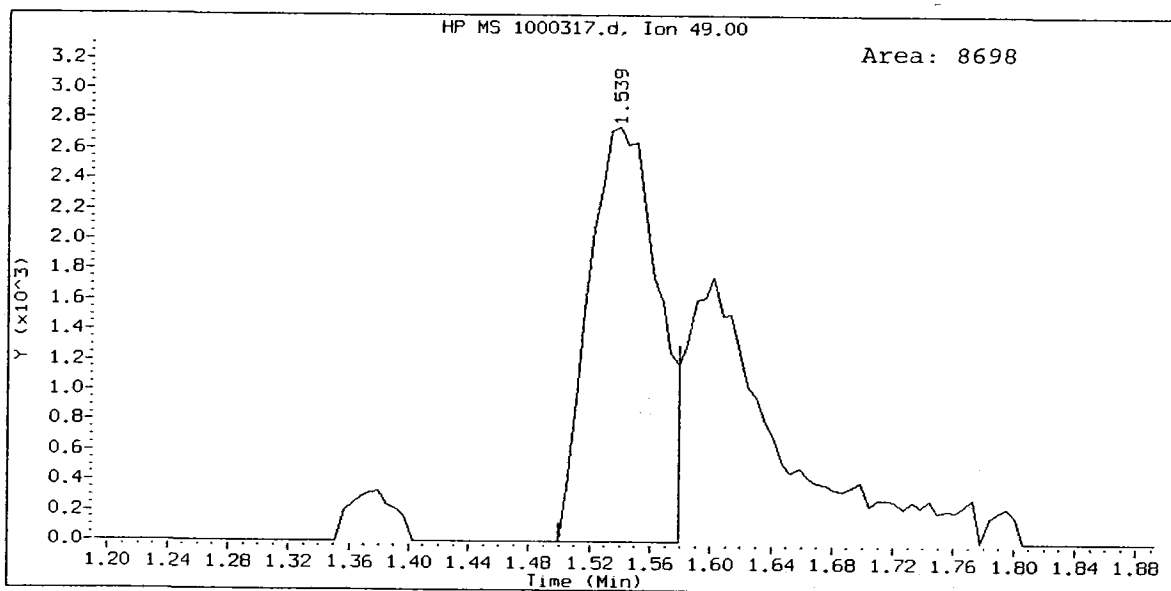
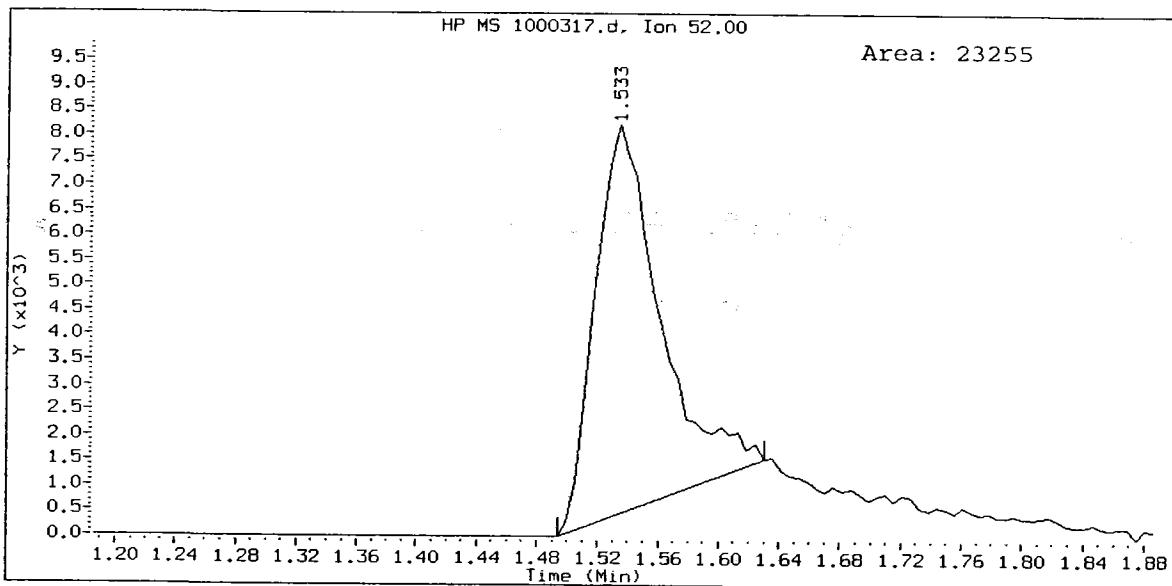
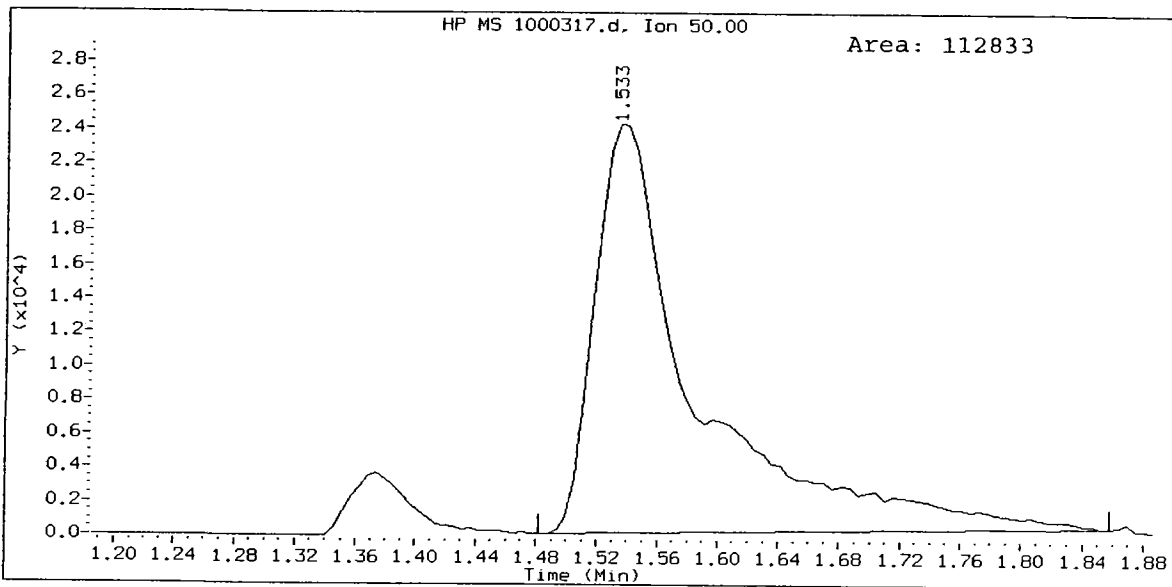
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

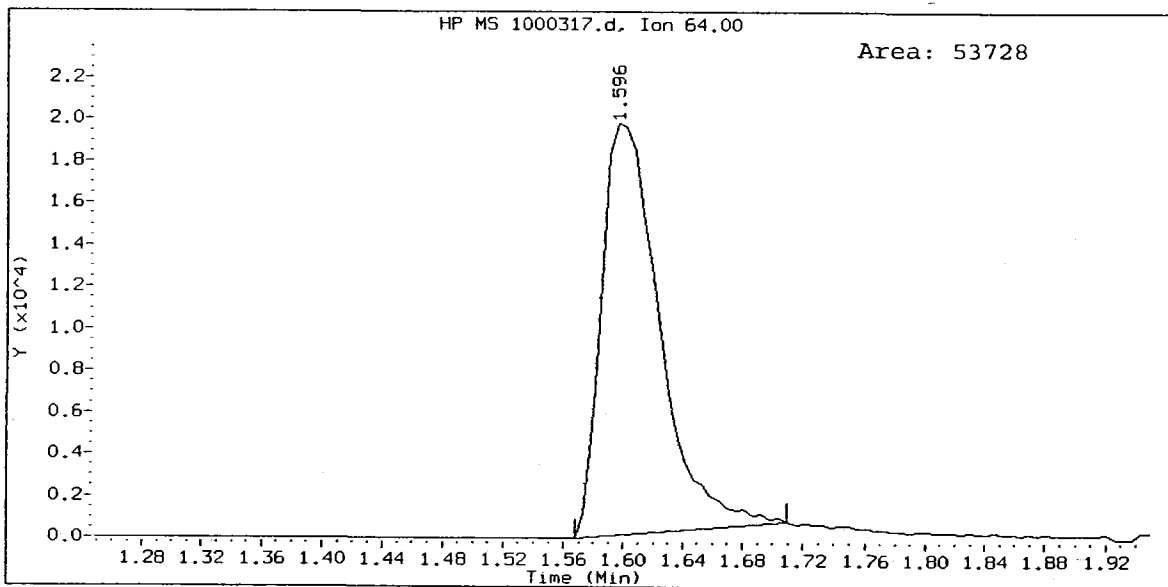
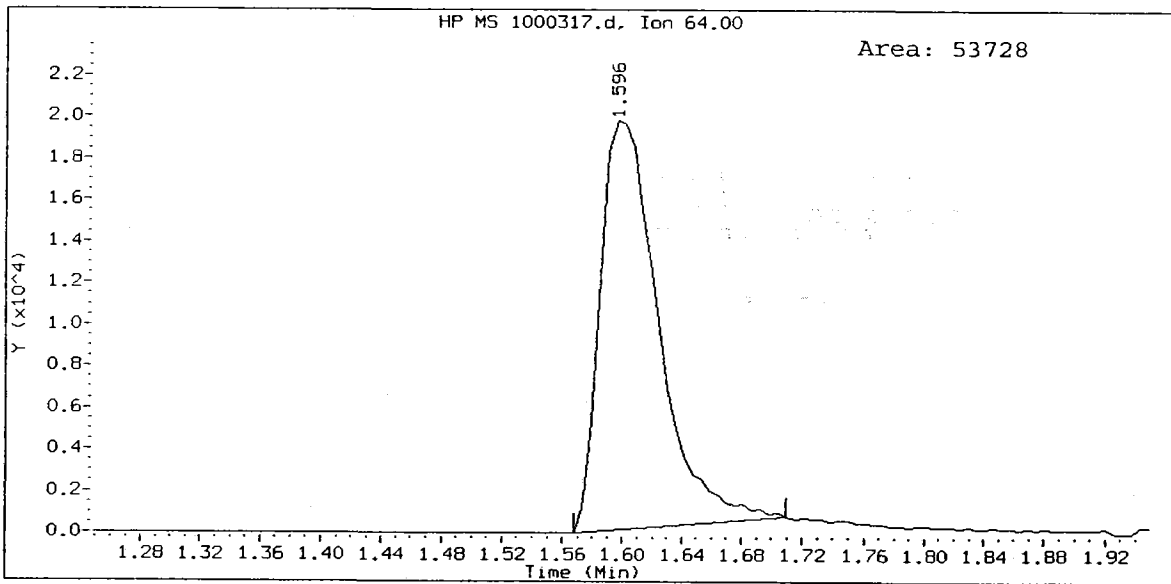
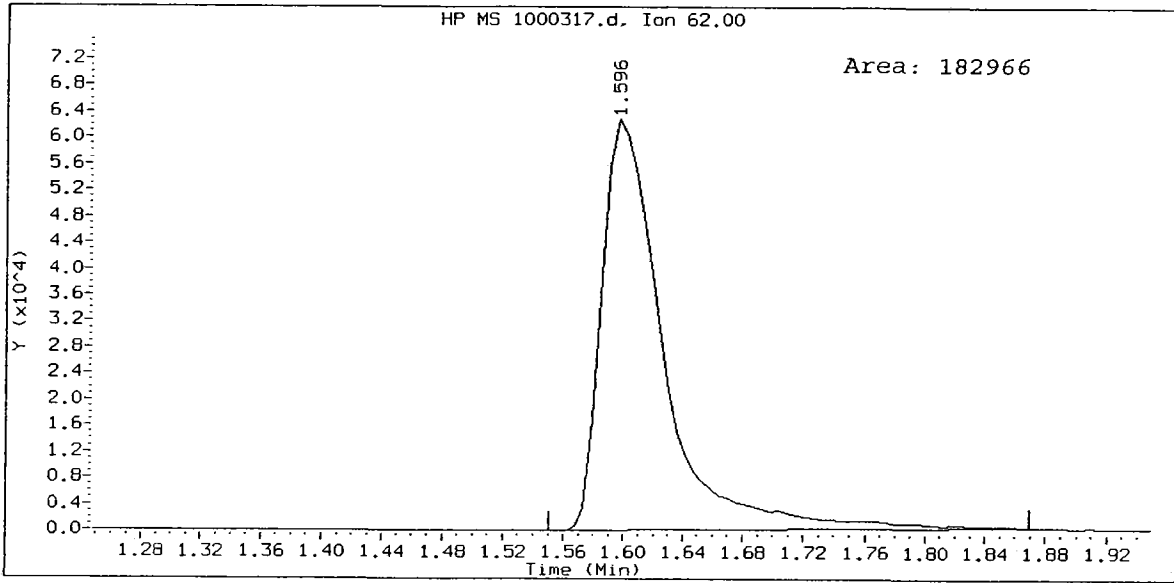
Data File: /chem1/nt10.i/17HAR10.b/1000317.d
Date : 17-HAR-2010 11:00
Client ID: CC0317
Sample Info: CC0317,10,10,0,

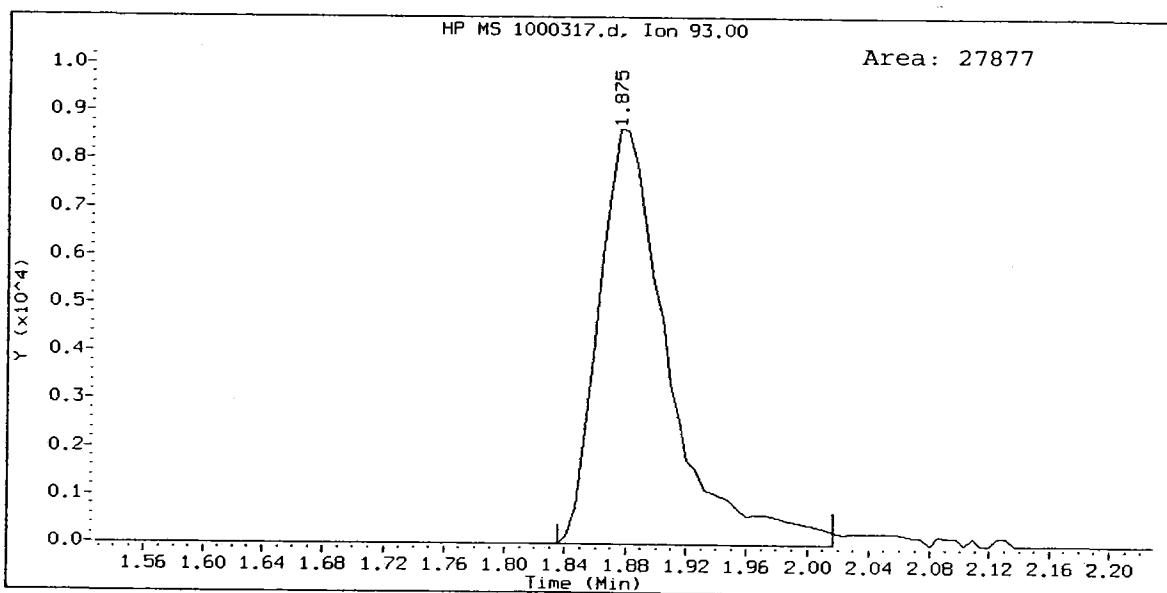
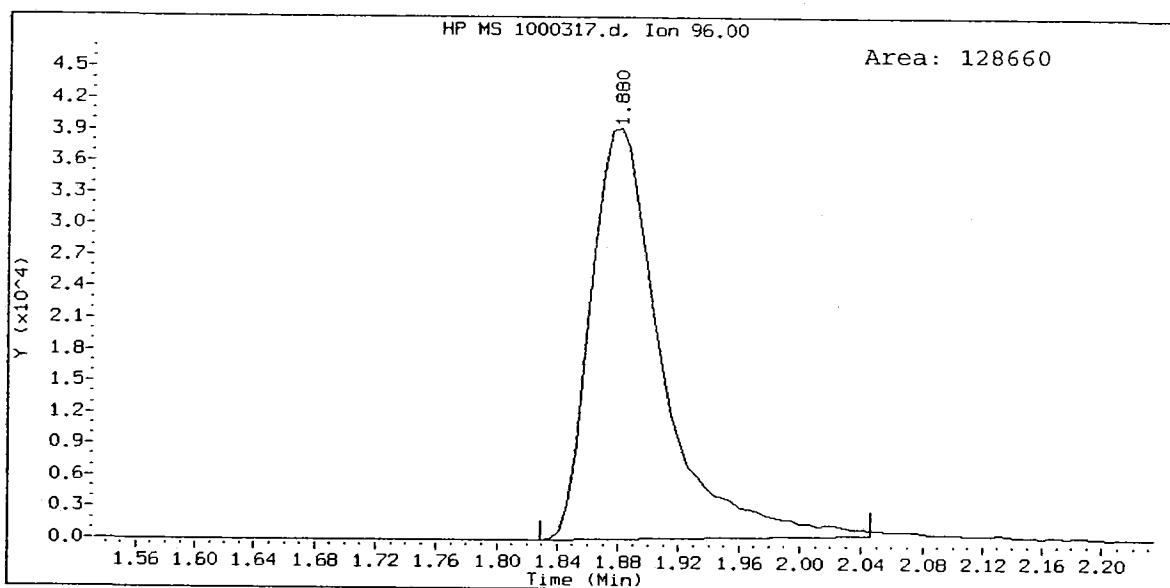
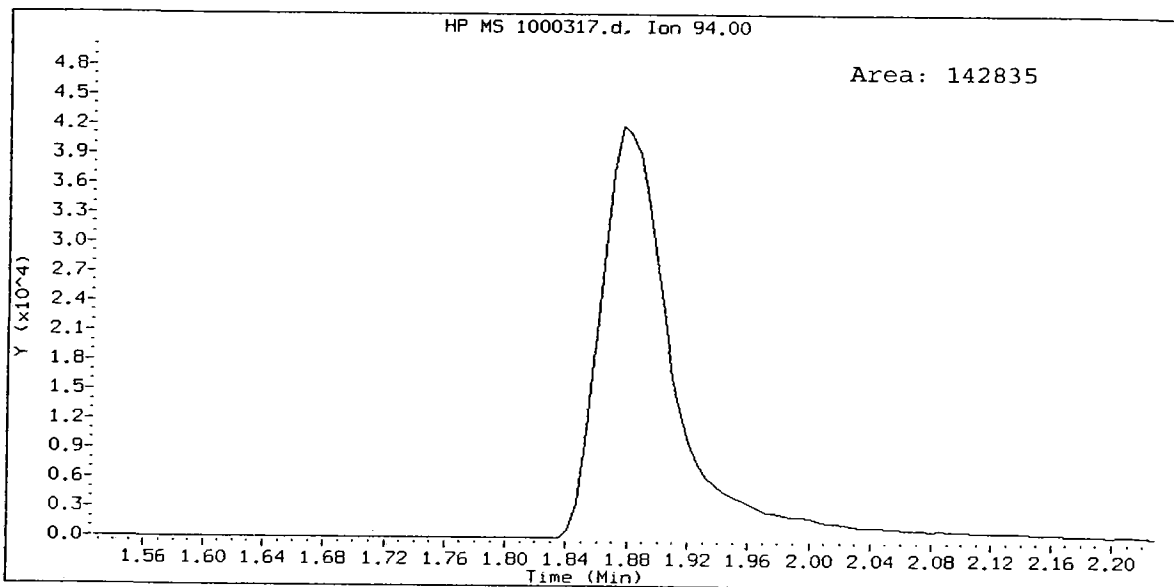
Column phase: RTX502.2

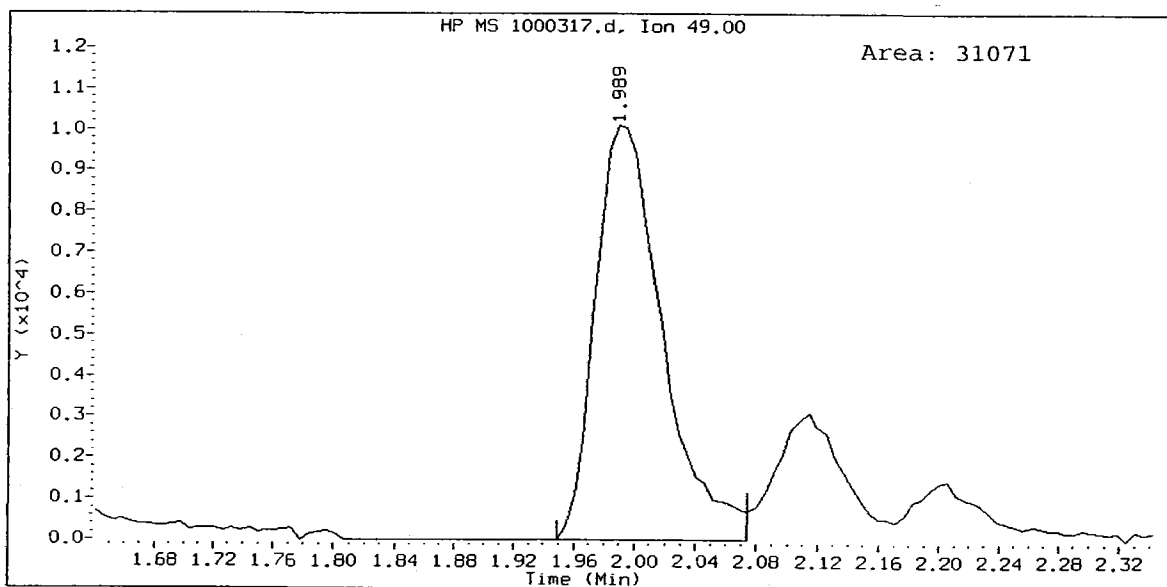
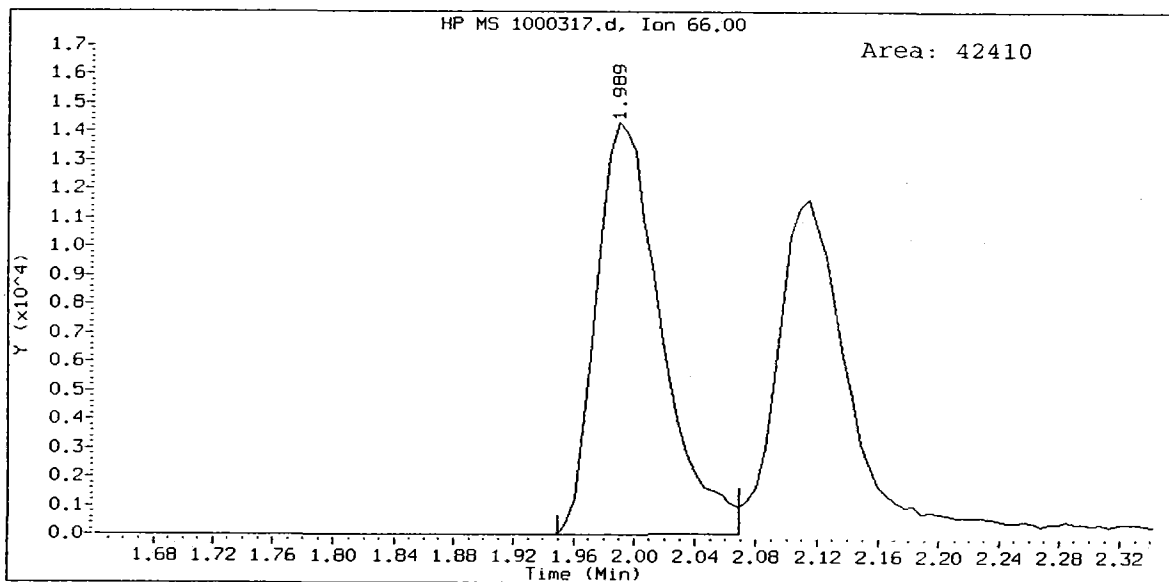
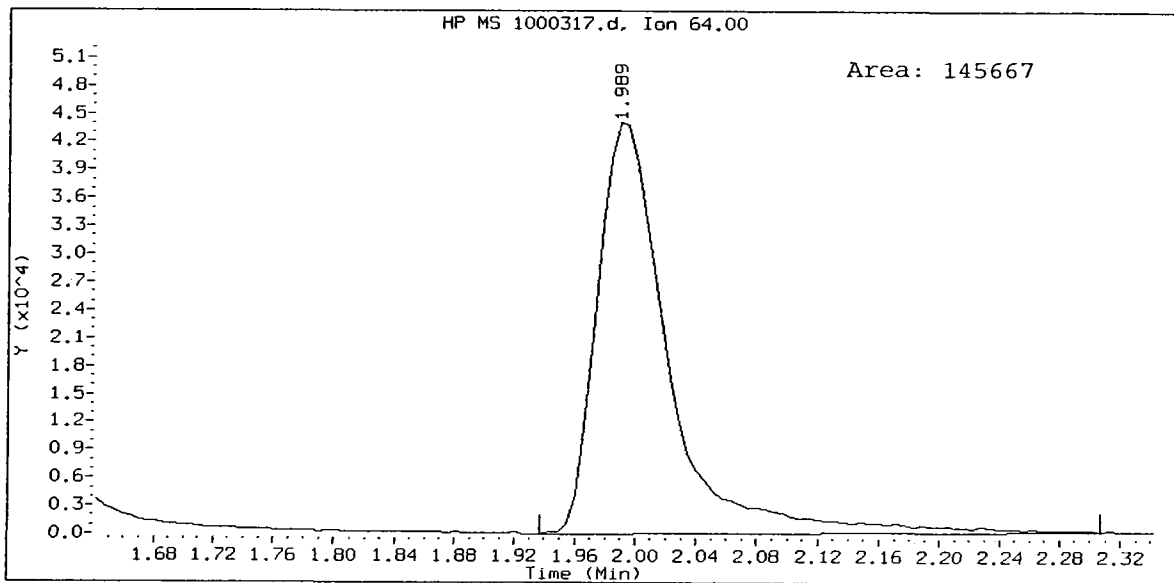
Instrument: nt10.i
Operator: ar
Column diameter: 0.18



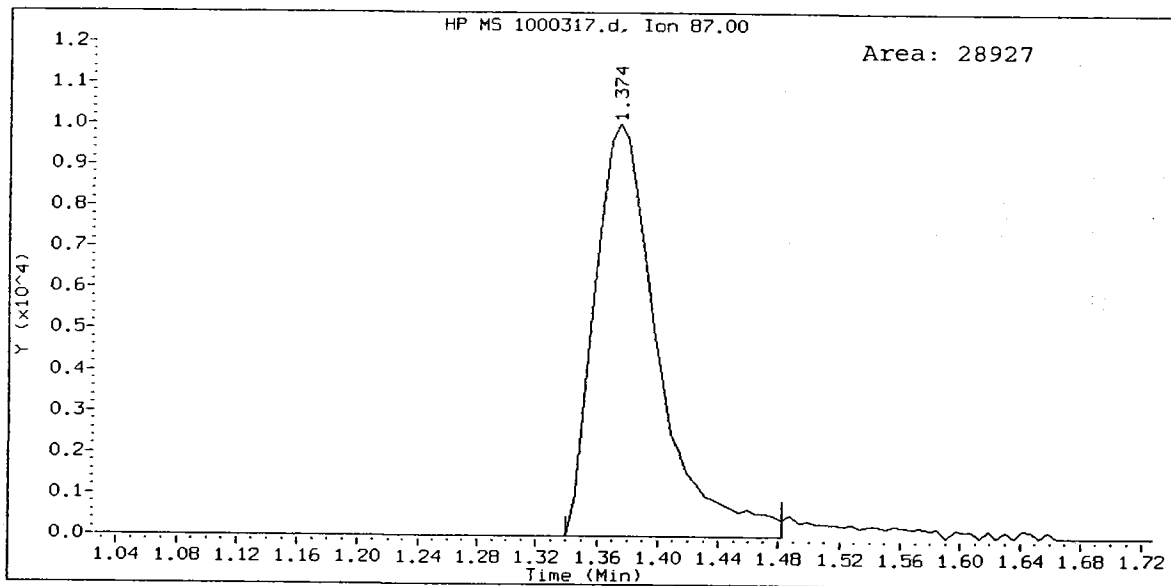
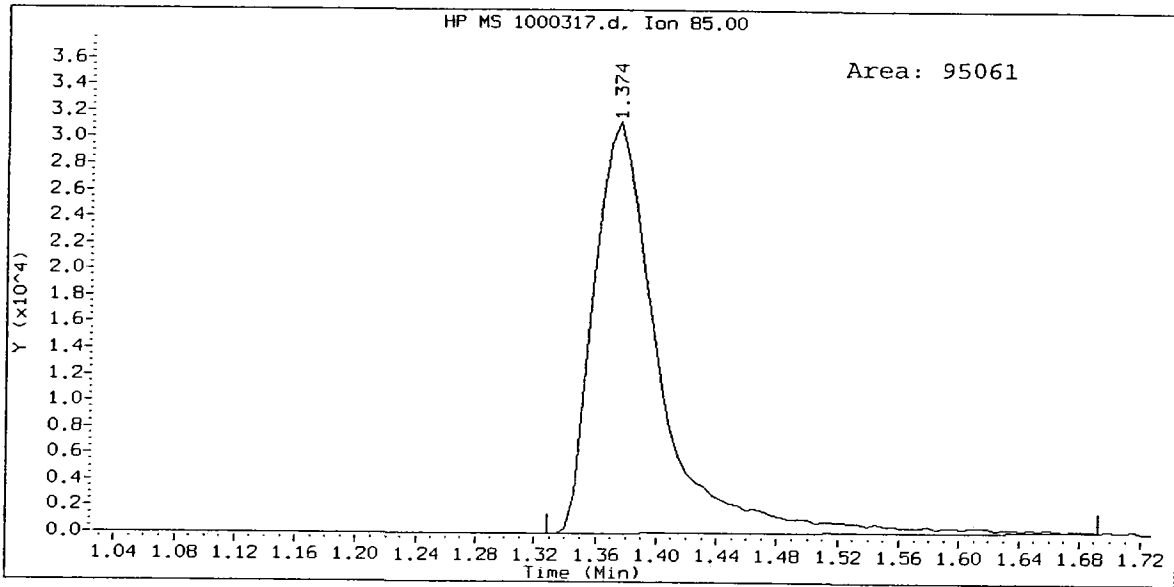




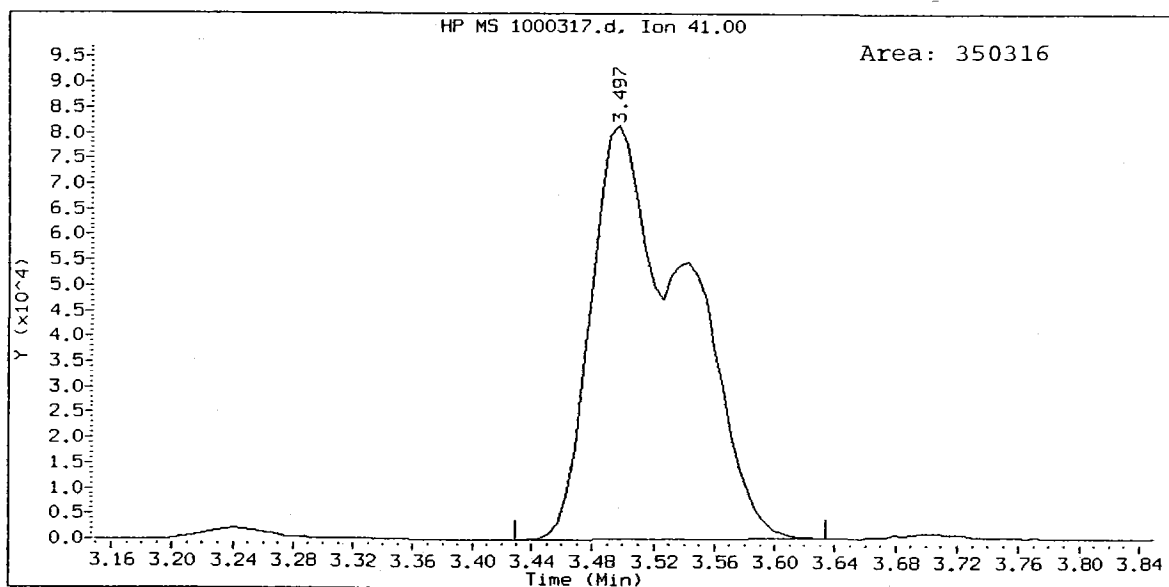
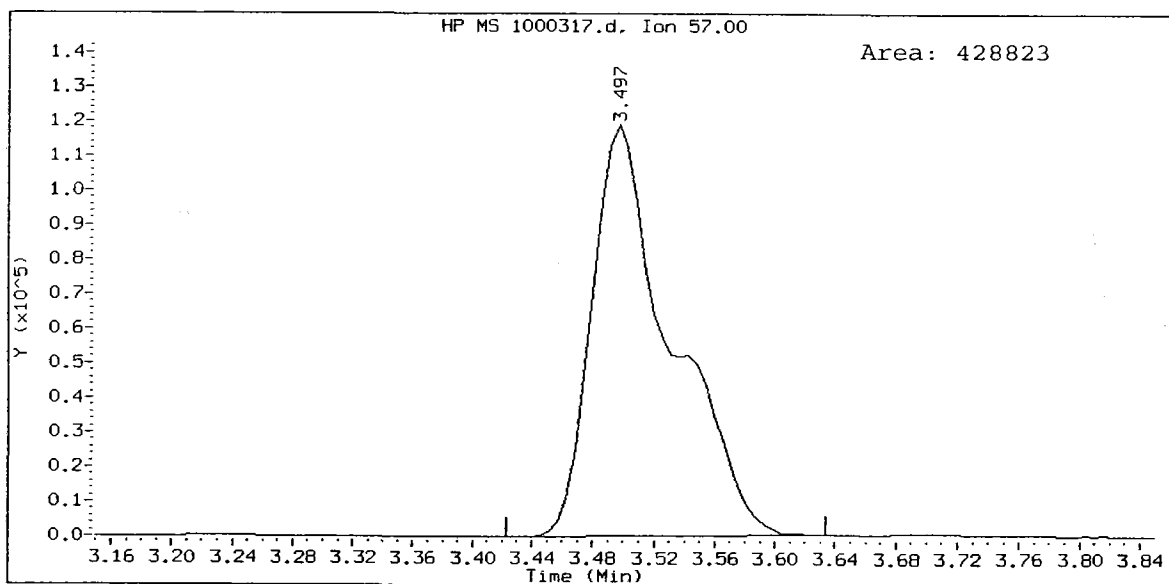
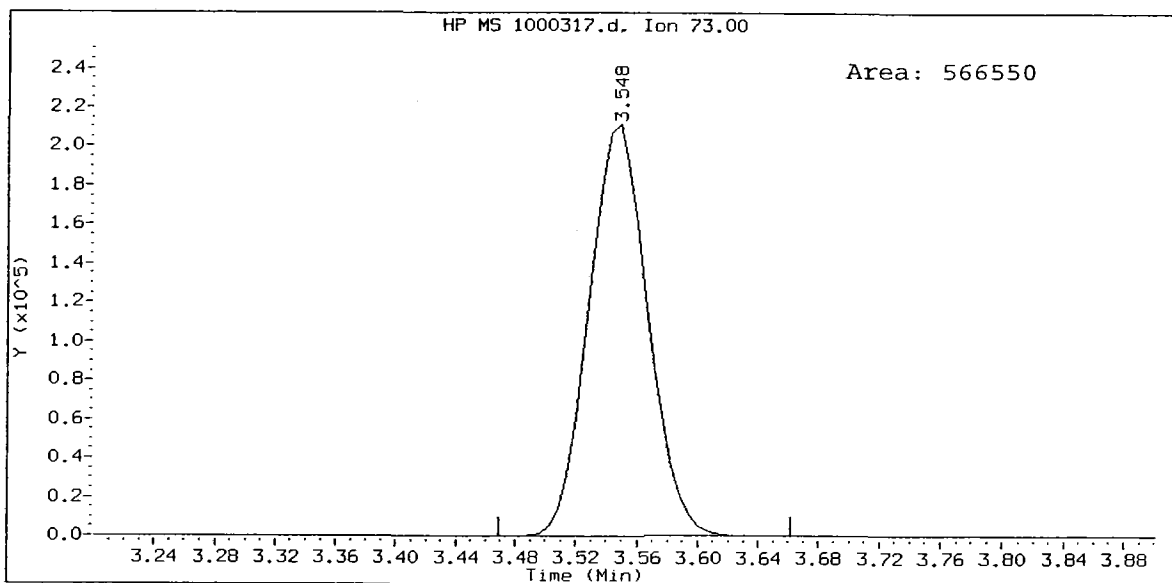




CC0317, /chem1/nt10.i/17MAR10.b/1000317.d
Dichlorodifluoromethane Amount: 6.46



CC0317, /chem1/nt10.i/17MAR10.b/1000317.d
Methyl tert butyl ether Amount: 18.20



QN31 : 00245

Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt10.i/04MAR10a,b/bfb0304a.d

Date : 04-MAR-2010 17:57

Client ID: BFB0304

Instrument: nt10.i

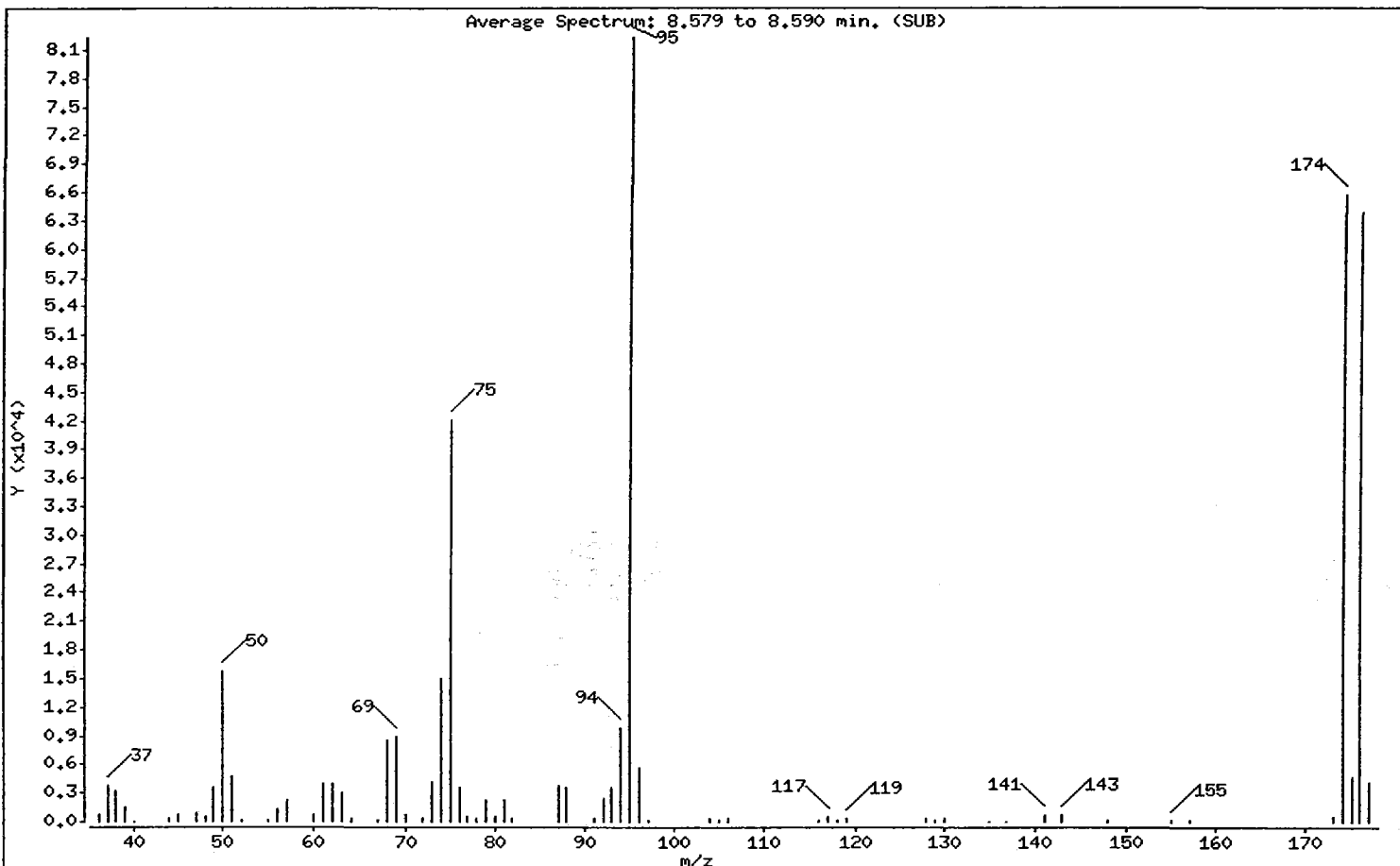
Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0,18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 19.09 |
| 75 | 30.00 - 66.00% of mass 95 | 51.25 |
| 96 | 5.00 - 9.00% of mass 95 | 6.85 |
| 173 | Less than 2.00% of mass 174 | 0.74 (0.92) |
| 174 | 50.00 - 101.00% of mass 95 | 79.94 |
| 175 | 4.00 - 9.00% of mass 174 | 5.77 (7.22) |
| 176 | 93.00 - 101.00% of mass 174 | 77.54 (97.00) |
| 177 | 5.00 - 9.00% of mass 176 | 5.17 (6.67) |

Data File: /chem1/nt10.i/04MAR10a,b/bfb0304a.d

Date : 04-MAR-2010 17:57

Client ID: BFB0304

Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0304a.d

Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)

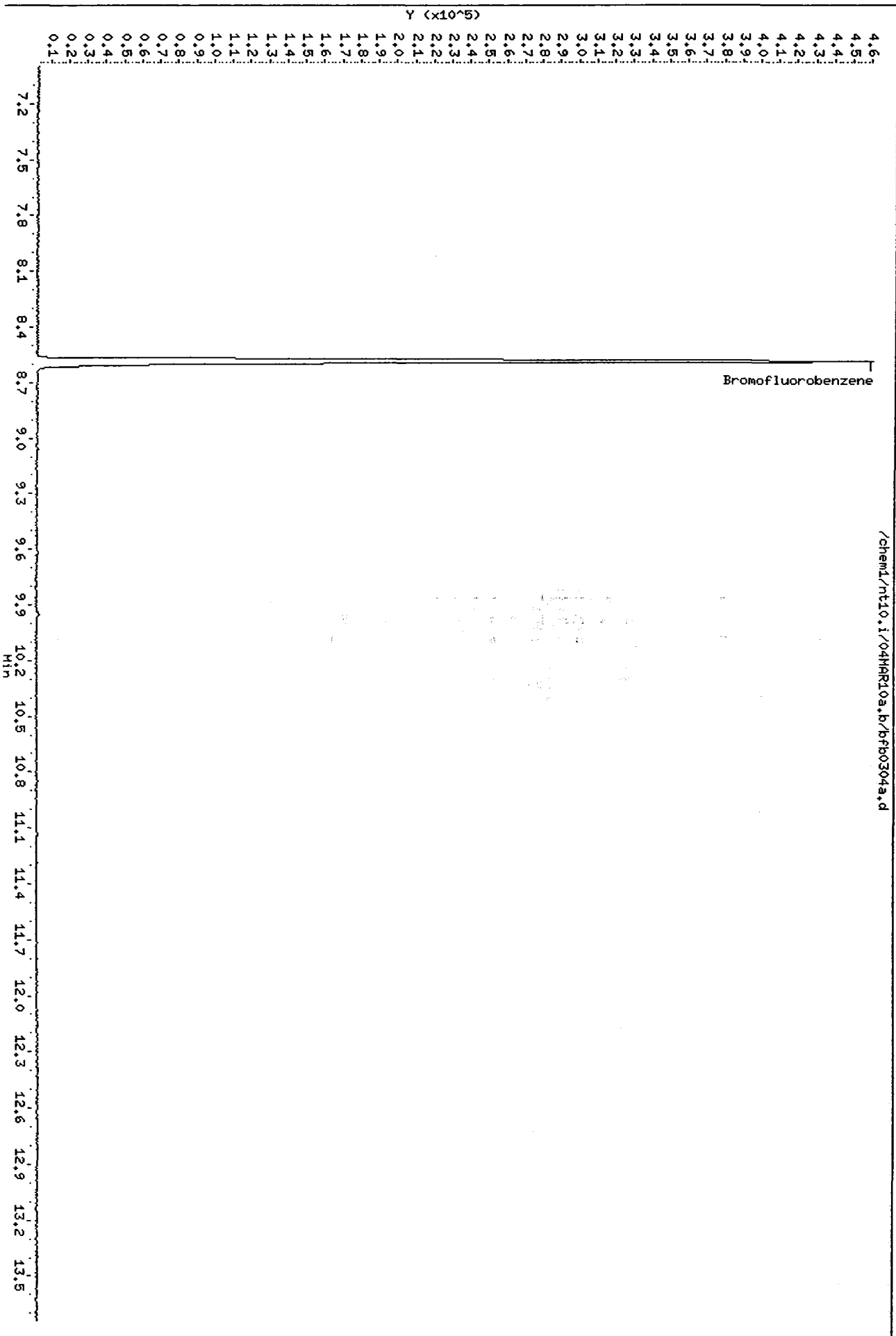
Location of Maximum: 95.00

Number of points: 67

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|-------|--------|-------|
| 36.00 | 711 | 61.00 | 3978 | 81.00 | 2367 | 119.00 | 384 |
| 37.00 | 3759 | 62.00 | 4041 | 82.00 | 427 | 128.00 | 312 |
| 38.00 | 3320 | 63.00 | 3046 | 87.00 | 3750 | 129.00 | 110 |
| 39.00 | 1426 | 64.00 | 308 | 88.00 | 3510 | 130.00 | 318 |
| 40.00 | 26 | 67.00 | 258 | 91.00 | 293 | 135.00 | 50 |
| 44.00 | 325 | 68.00 | 8558 | 92.00 | 2487 | 137.00 | 52 |
| 45.00 | 730 | 69.00 | 8976 | 93.00 | 3618 | 141.00 | 718 |
| 47.00 | 979 | 70.00 | 689 | 94.00 | 9775 | 143.00 | 787 |
| 48.00 | 608 | 72.00 | 391 | 95.00 | 82336 | 148.00 | 216 |
| 49.00 | 3583 | 73.00 | 4096 | 96.00 | 5636 | 155.00 | 190 |
| 50.00 | 15718 | 74.00 | 14917 | 97.00 | 124 | 157.00 | 103 |
| 51.00 | 4749 | 75.00 | 42200 | 104.00 | 366 | 173.00 | 607 |
| 52.00 | 227 | 76.00 | 3681 | 105.00 | 103 | 174.00 | 65816 |
| 55.00 | 198 | 77.00 | 525 | 106.00 | 296 | 175.00 | 4750 |
| 56.00 | 1281 | 78.00 | 296 | 116.00 | 260 | 176.00 | 63840 |
| 57.00 | 2267 | 79.00 | 2360 | 117.00 | 490 | 177.00 | 4260 |
| 60.00 | 806 | 80.00 | 653 | 118.00 | 265 | | |

Data File: /chem1/nt10.i/04HAR10a.b/bfb0304a.d
Date: 04-HAR-2010 17:57
Client ID: BFB0304
Sample Info: BFB0304,BFB0304,,1,04HAR10,,
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



Data File: /chem1/nt10.i/17MAR10.b/bfb0317.d

Date : 17-MAR-2010 10:35

Client ID: BFB0317

Instrument: nt10.i

AR 3/17/2010

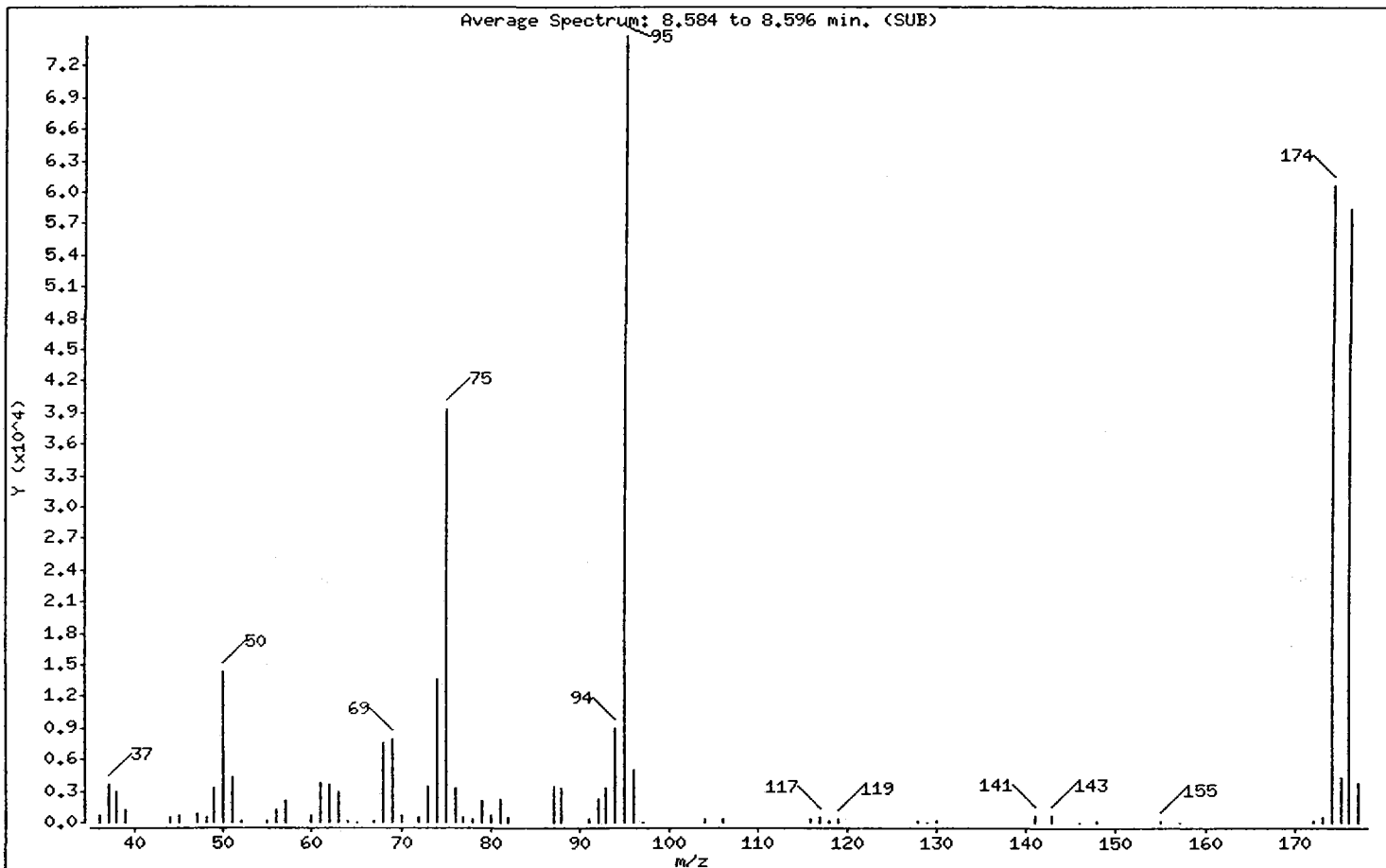
Sample Info: BFB0317,BFB0317,,1,17MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 19.20 |
| 75 | 30.00 - 66.00% of mass 95 | 52.62 |
| 96 | 5.00 - 9.00% of mass 95 | 6.60 |
| 173 | Less than 2.00% of mass 174 | 0.73 (0.90) |
| 174 | 50.00 - 101.00% of mass 95 | 81.13 |
| 175 | 4.00 - 9.00% of mass 174 | 5.83 (7.18) |
| 176 | 93.00 - 101.00% of mass 174 | 78.05 (96.21) |
| 177 | 5.00 - 9.00% of mass 176 | 4.96 (6.36) |

Data File: /chem1/nt10.i/17MAR10.b/bfb0317.d

Date : 17-MAR-2010 10:35

Client ID: BFB0317

Instrument: nt10.i

Sample Info: BFB0317,BFB0317,,1,17MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0317.d

Spectrum: Average Spectrum: 8.584 to 8.596 min. (SUB)

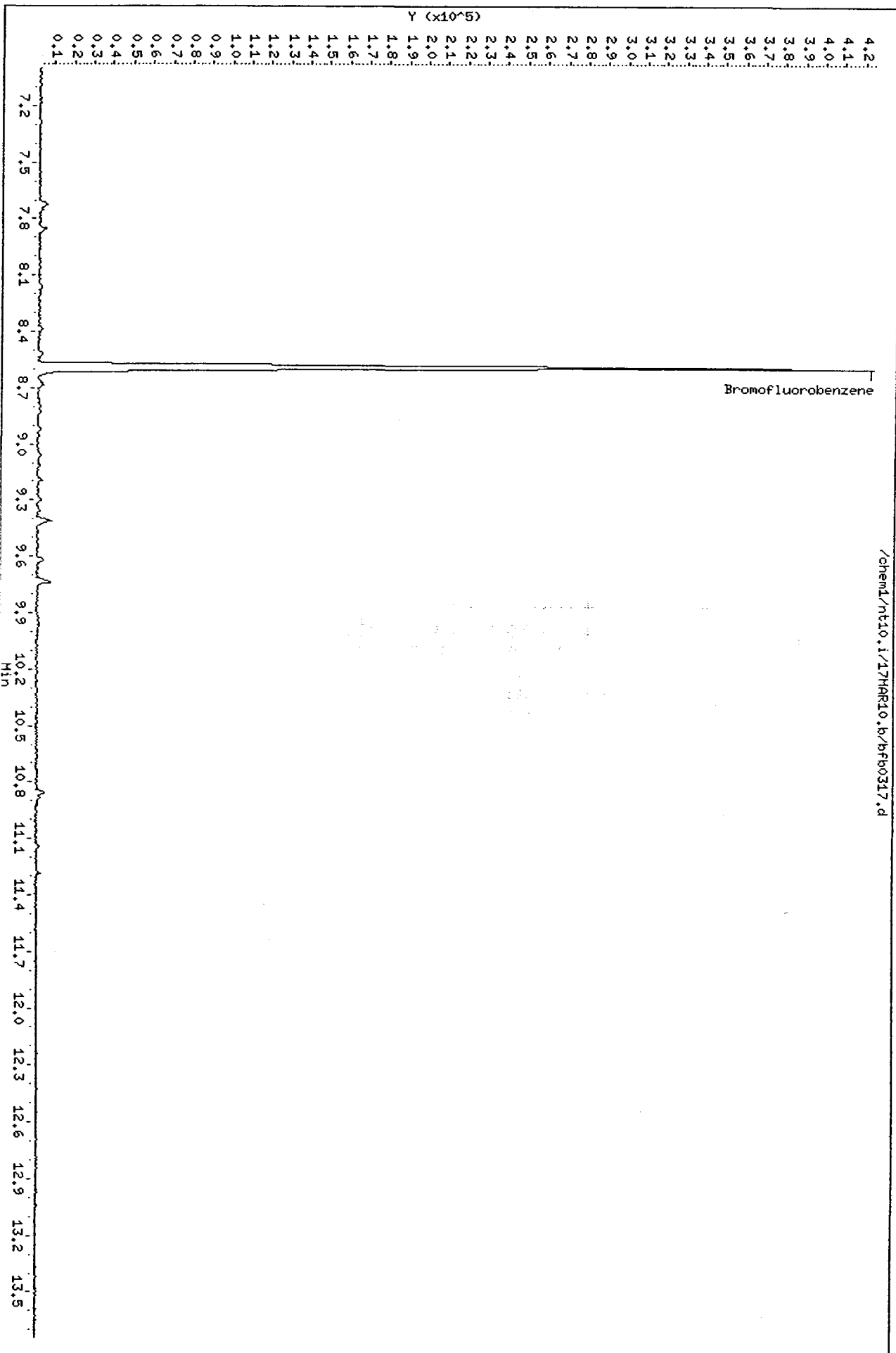
Location of Maximum: 95.00

Number of points: 66

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|-------|--------|-------|
| 36.00 | 632 | 62.00 | 3701 | 81.00 | 2294 | 128.00 | 258 |
| 37.00 | 3604 | 63.00 | 2852 | 82.00 | 434 | 129.00 | 55 |
| 38.00 | 2926 | 64.00 | 241 | 87.00 | 3486 | 130.00 | 235 |
| 39.00 | 1275 | 65.00 | 59 | 88.00 | 3199 | 141.00 | 687 |
| 44.00 | 463 | 67.00 | 215 | 91.00 | 279 | 143.00 | 713 |
| 45.00 | 629 | 68.00 | 7650 | 92.00 | 2276 | 146.00 | 50 |
| 47.00 | 872 | 69.00 | 7992 | 93.00 | 3225 | 148.00 | 199 |
| 48.00 | 451 | 70.00 | 644 | 94.00 | 8951 | 155.00 | 106 |
| 49.00 | 3281 | 72.00 | 491 | 95.00 | 74808 | 157.00 | 50 |
| 50.00 | 14366 | 73.00 | 3472 | 96.00 | 4937 | 172.00 | 130 |
| 51.00 | 4239 | 74.00 | 13700 | 97.00 | 55 | 173.00 | 547 |
| 52.00 | 209 | 75.00 | 39360 | 104.00 | 314 | 174.00 | 60688 |
| 55.00 | 205 | 76.00 | 3223 | 106.00 | 312 | 175.00 | 4359 |
| 56.00 | 1179 | 77.00 | 530 | 116.00 | 259 | 176.00 | 58392 |
| 57.00 | 2059 | 78.00 | 308 | 117.00 | 483 | 177.00 | 3714 |
| 60.00 | 748 | 79.00 | 2152 | 118.00 | 235 | | |
| 61.00 | 3725 | 80.00 | 618 | 119.00 | 389 | | |

Data File: /chem1/nt10.i/17HAR10.b/bfb0317.d
Date: 17-HAR-2010 10:35
Client ID: BFB0317
Sample Info: BFB0317,BFB0317,1,17HAR10,,
Column phase: RTX502.2


Instrument: nt10.i
Operator: ar
Column diameter: 0.18
/chem1/nt10.i/17HAR10.b/bfb0317.d



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-031710
METHOD BLANK

Lab Sample ID: MB-031710
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 12:15

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 107% |
|-----------------------|------|

Analytical Resources, Inc.

AR 3/17/2010

8260C

Data file : /chem1/nt10.i/17MAR10.b/mb0317.d
Lab Smp Id: MB0317 Client Smp ID: MB0317
Inj Date : 17-MAR-2010 12:15
Operator : ar Inst ID: nt10.i
Smp Info : MB0317,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/17MAR10.b/82600304L.m
Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | | | | | |
| 2 Chloromethane | 50 | | | | | | |
| 3 Vinyl Chloride | 62 | | | | | | |
| 4 Bromomethane | 94 | 1.898 | 1.875 | (0.360) | 3138 | 0.16736 | |
| 5 Chloroethane | 64 | | | | | 0.1674 (M) CR | |
| 6 Trichlorofluoromethane | 101 | | | | | | |
| 8 Acrolein | 56 | | | | | | |
| 9 112Trichloro122Trifluoroethane | 101 | | | | | | |
| 10 Acetone | 43 | | | | | | |
| 11 1,1-Dichloroethene | 96 | | | | | | |
| 12 Bromoethane | 108 | | | | | | |
| 13 Iodomethane | 142 | | | | | | |
| 14 Methylene Chloride | 84 | | | | | | |
| 15 Acrylonitrile | 53 | | | | | | |
| 16 Methyl tert butyl ether | 73 | | | | | | |
| 17 Carbon Disulfide | 76 | | | | | | |

| Compounds | QUANT | SIG | | | | | CONCENTRATIONS | | | |
|--------------------------------|-------|-------|-------|-------|---------|--------|----------------|--------|----------|----------------------|
| | | | MASS | RT | EXP | RT | REL | RT | RESPONSE | ON-COLUMN (ug/L) |
| ===== | ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | | | | | | | | | |
| 20 Vinyl Acetate | 43 | | | | | | | | | |
| 21 1,1-Dichloroethane | 63 | | | | | | | | | |
| 22 2-Butanone | 72 | | | | | | | | | |
| 23 2,2-Dichloropropane | 77 | | | | | | | | | |
| 24 Cis-1,2-Dichloroethene | 96 | | | | | | | | | |
| * 25 Pentafluorobenzene | 168 | | 5.267 | 5.267 | (1.000) | 405266 | 10.0000 | | | |
| 26 Chloroform | 83 | | | | | | | | | |
| 27 Bromochloromethane | 128 | | | | | | | | | |
| § 28 Dibromofluoromethane | 111 | | 4.880 | 4.880 | (0.927) | 171915 | 10.0431 | 10.043 | | |
| 29 1,1,1-Trichloroethane | 97 | | | | | | | | | |
| 30 1,1-Dichloropropene | 75 | | | | | | | | | |
| 31 Carbon Tetrachloride | 117 | | | | | | | | | |
| § 32 d4-1,2-Dichloroethane | 65 | | 5.289 | 5.289 | (1.004) | 163049 | 10.7381 | 10.738 | | |
| 33 1,2-Dichloroethane | 62 | | | | | | | | | |
| 34 Benzene | 78 | | | | | | | | | |
| * 35 1,4-Difluorobenzene | 114 | | 5.654 | 5.654 | (1.000) | 672326 | 10.0000 | | | |
| 36 Trichloroethene | 95 | | | | | | | | | |
| 37 1,2-Dichloropropane | 63 | | | | | | | | | |
| 38 Bromodichloromethane | 83 | | | | | | | | | |
| 39 Dibromomethane | 93 | | | | | | | | | |
| 40 2-Chloroethyl Vinyl Ether | 63 | | | | | | | | | |
| 41 4-Methyl-2-Pentanone | 58 | | | | | | | | | |
| 42 Cis 1,3-dichloropropene | 75 | | | | | | | | | |
| § 43 d8-Toluene | 98 | | 6.633 | 6.633 | (1.173) | 822541 | 9.80592 | 9.806 | | |
| 44 Toluene | 92 | | | | | | | | | |
| 45 Trans 1,3-Dichloropropene | 75 | | | | | | | | | |
| 46 2-Hexanone | 43 | | | | | | | | | |
| 47 1,1,2-Trichloroethane | 97 | | | | | | | | | |
| 48 1,3-Dichloropropane | 76 | | | | | | | | | |
| 49 Tetrachloroethene | 166 | | | | | | | | | |
| 50 Chlorodibromomethane | 129 | | | | | | | | | |
| 51 1,2-Dibromoethane | 107 | | | | | | | | | |
| * 52 d5-Chlorobenzene | 117 | | 7.720 | 7.720 | (1.000) | 581560 | 10.0000 | | | |
| 53 Chlorobenzene | 112 | | | | | | | | | |
| 54 Ethyl Benzene | 91 | | | | | | | | | |
| 55 1,1,1,2-Tetrachloroethane | 131 | | | | | | | | | |
| 56 m,p-xylene | 106 | | | | | | | | | |
| 58 o-Xylene | 106 | | | | | | | | | |
| 59 Styrene | 104 | | | | | | | | | |
| 60 Isopropyl Benzene | 105 | | | | | | | | | |
| 61 Bromoform | 173 | | | | | | | | | |
| 62 1,1,2,2-Tetrachloroethane | 83 | | | | | | | | | |
| § 63 4-Bromofluorobenzene | 95 | | 8.585 | 8.585 | (1.112) | 232751 | 10.0964 | 10.096 | | |
| 64 1,2,3-Trichloropropane | 110 | | | | | | | | | |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | | | | | | | | | |
| 66 N-Propyl Benzene | 91 | | | | | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|--------|--------|---------|----------|----------------------|-----------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | | | | | | |
| 68 1,3,5-Trimethyl Benzene | 105 | | | | | | |
| 69 2-Chloro Toluene | 91 | | | | | | |
| 70 4-Chloro Toluene | 91 | | | | | | |
| 71 T-Butyl Benzene | 119 | | | | | | |
| 72 1,2,4-Trimethylbenzene | 105 | | | | | | |
| 73 S-Butyl Benzene | 105 | | | | | | |
| 74 4-Isopropyl Toluene | 119 | | | | | | |
| 75 1,3-Dichlorobenzene | 146 | | | | | | |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 194881 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | | | | | | |
| 78 N-Butyl Benzene | 91 | | | | | | |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.728 | 9.728 | (1.034) | 155403 | 10.2356 | 10.236 |
| 80 1,2-Dichlorobenzene | 146 | | | | | | |
| 81 1,2-Dibromo 3-Chloropropane | 75 | | | | | | |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.872 | (1.157) | 1272 | 0.10690 | 0.1069 (Q) <i>LFL</i> |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.850 | 10.850 | (1.154) | 1833 | 0.24384 | 0.2438 |
| 84 Naphthalene | 128 | 11.134 | 11.134 | (1.184) | 7448 | 0.45368 | 0.4537 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.276 | 11.276 | (1.199) | 1693 | 0.20267 | 0.2027 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: mb0317.d
 Lab Smp Id: MB0317
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-

Calibration Date: 17-MAR-2010
 Calibration Time: 11:00
 Client Smp ID: MB0317
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 405266 | -12.24 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 672326 | -9.89 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 581560 | -12.64 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 194881 | -17.31 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | -0.11 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.65 | 0.00 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

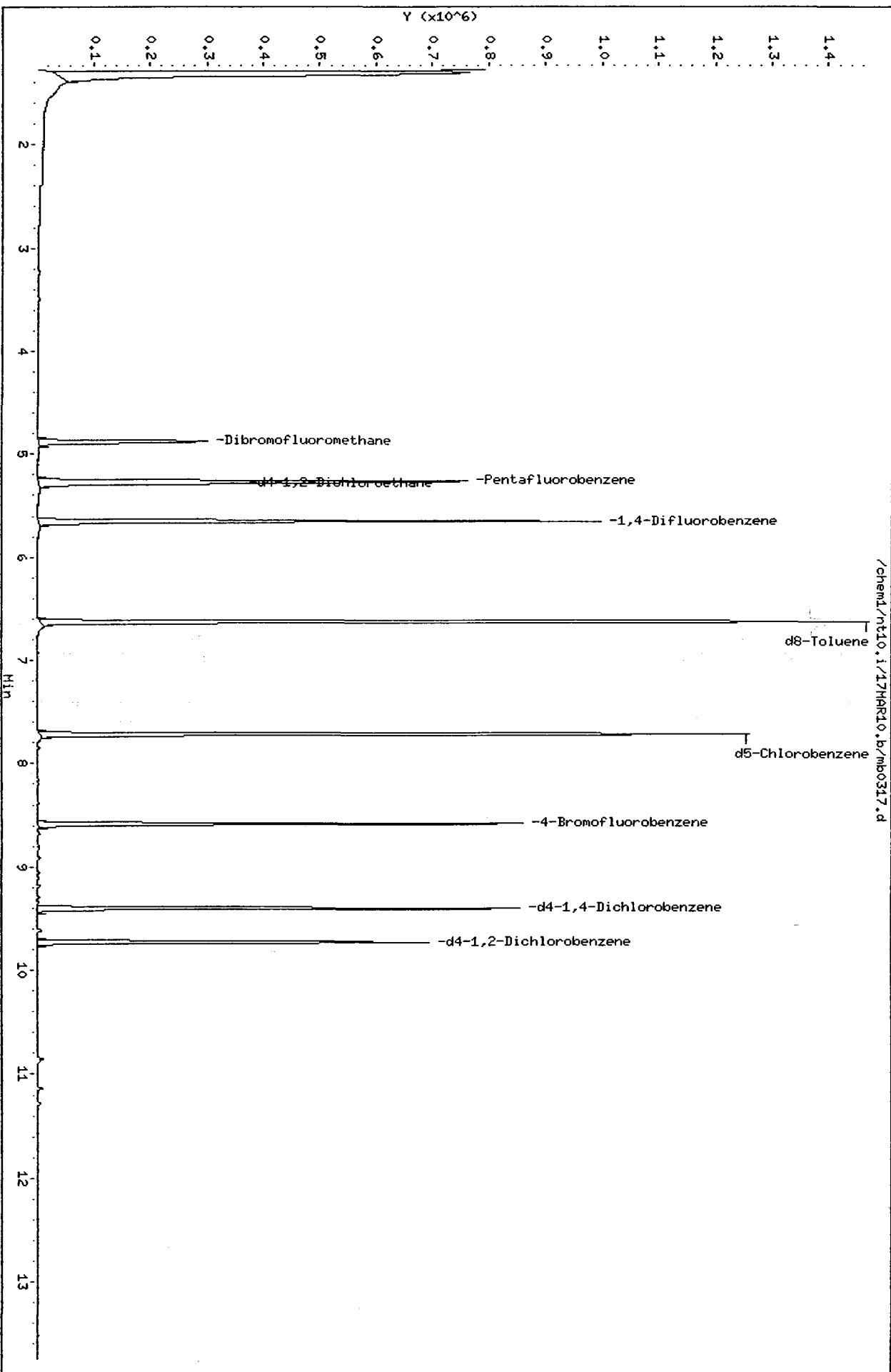
Client Name: Client SDG: 17MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0317 Client Smp ID: MB0317
Level: LOW Operator: ar
Data Type: MS DATA SampleType: BLANK
SpikeList File: allspike.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.043 | 100.43 | 60-130 |
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 10.738 | 107.38 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.806 | 98.06 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.096 | 100.96 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.236 | 102.36 | 80-120 |

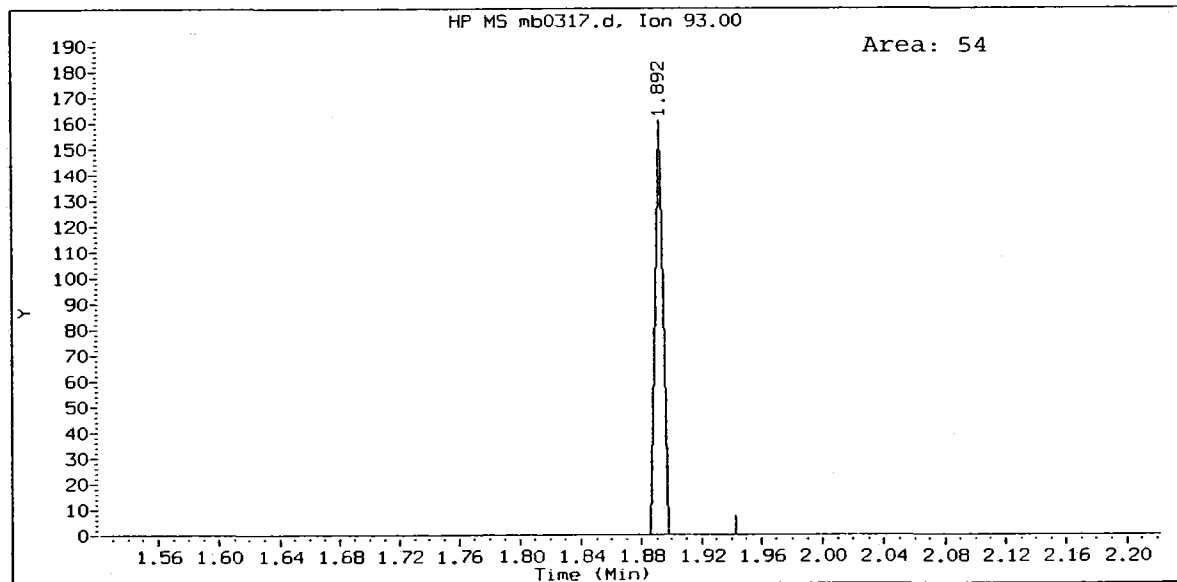
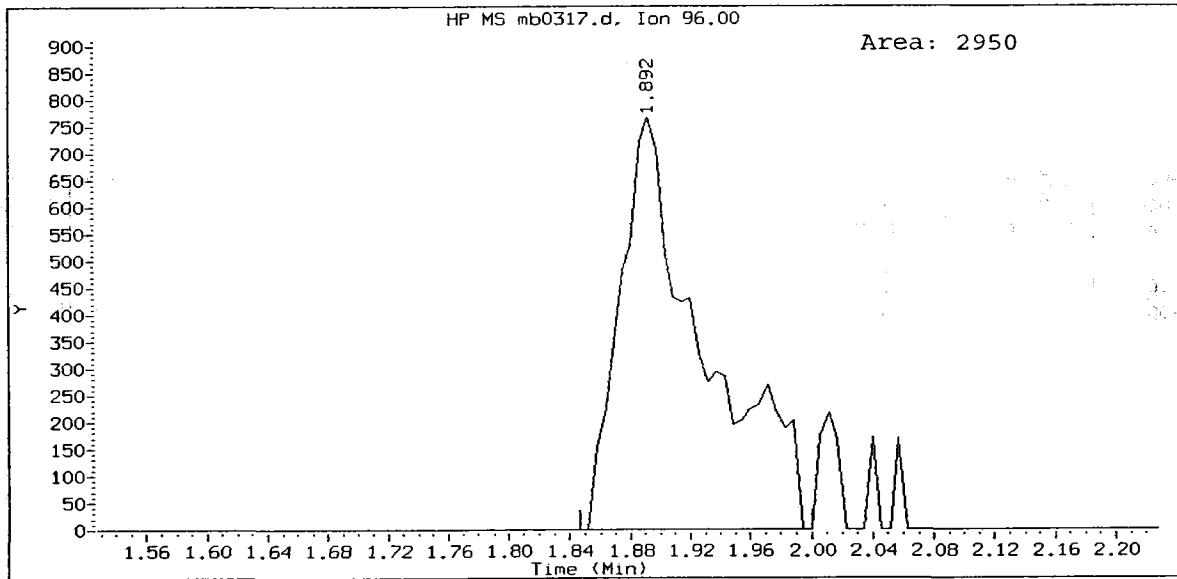
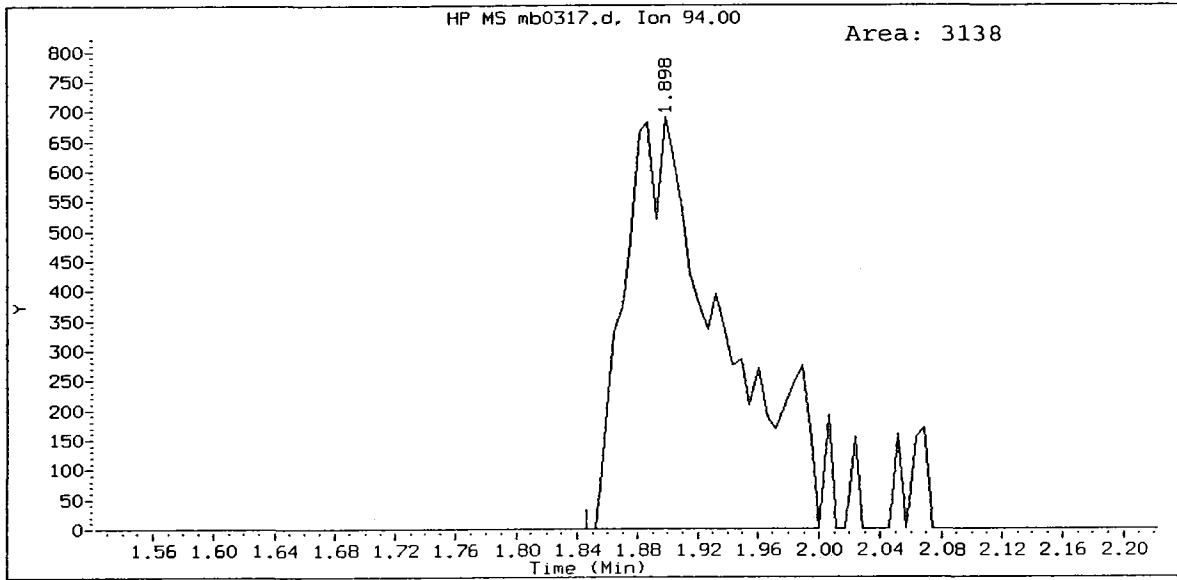
Data File: /chem1/nt10.i/17MAR10.b/mb0317.d
Date: 17-MAR-2010 12:15
Client ID: MB0317
Sample Info: MB0317,10,10,0,

Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



MB0317, /chem1/nt10.i/17MAR10.b/mb0317.d
Bromomethane Amount: 0.17



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: CB31A031110GRAB

Page 1 of 1

MATRIX SPIKE

Lab Sample ID: QN31A


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/19/10

Date Received: 03/11/10

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/17/10 21:58

Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | --- | |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 115%

Analytical Resources, Inc.

8260C

AR 3/18/2010

Data file : /chem1/nt10.i/17MAR10.b/qn31ams.d
 Lab Smp Id: QN31A Client Smp ID: CB31A031110GRAB MS
 Inj Date : 17-MAR-2010 21:58
 Operator : ar Inst ID: nt10.i
 Smp Info : QN31A,10,10,0,MS
 Misc Info : 10-6027
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-------------------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.374 | 1.374 | (0.261) | 147275 | 9.81572 | 9.816 |
| 2 Chloromethane | 50 | 1.533 | 1.533 | (0.291) | 148357 | 8.70056 | 8.701(M) |
| 3 Vinyl Chloride | 62 | 1.596 | 1.596 | (0.303) | 221165 | 10.1558 | 10.156 |
| 4 Bromomethane | 94 | 1.880 | 1.875 | (0.357) | 149589 | 8.17610 | 8.176 |
| 5 Chloroethane | 64 | 1.989 | 1.989 | (0.377) | 151174 | 8.87123 | 8.871 |
| 6 Trichlorofluoromethane | 101 | 2.114 | 2.114 | (0.401) | 268803 | 8.82926 | 8.829 |
| 8 Acrolein | 56 | 2.967 | 2.979 | (0.563) | 1961 | 3.85091 | 3.851(Q) |
| 9 112Trichloro122Trifluoroethane | 101 | 2.654 | 2.654 | (0.503) | 171460 | 9.28719 | 9.287 |
| 10 Acetone | 43 | 3.320 | 3.320 | (0.630) | 32097 | 13.9743 | 13.974(R) |
| 11 1,1-Dichloroethene | 96 | 2.598 | 2.598 | (0.493) | 205129 | 9.02593 | 9.026 |
| 12 Bromoethane | 108 | 2.871 | 2.871 | (0.544) | 117346 | 8.77157 | 8.772 |
| 13 Iodomethane | 142 | 2.728 | 2.734 | (0.518) | 218816 | 8.16477 | 8.165 |
| 14 Methylene Chloride | 84 | 3.241 | 3.241 | (0.615) | 169784 | 8.32461 | 8.325 |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 25597 | 11.4356 | 11.436 |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.673) | 556669 | 17.5247 | 17.525(M) |
| 17 Carbon Disulfide | 76 | 2.603 | 2.603 | (0.494) | 587690 | 8.51484 | 8.515 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|------------------|------------------|---------|----------|----------------------|------------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Trans-1,2-Dichloroethene | 96 | 3.406 | 3.406 | (0.646) | 219401 | 9.74439 | 9.744 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 133883 | 9.42442 | 9.424 |
| 21 1,1-Dichloroethane | 63 | 4.015 | 4.015 | (0.761) | 355009 | 9.71238 | 9.712 |
| 22 2-Butanone | 72 | 4.988 | 4.982 | (0.946) | 25386 | 10.8911 | 10.891 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 126649 | 10.7429 | 10.743 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 237324 | 9.94735 | 9.947 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 395358 | 10.0000 | |
| 26 Chloroform | 83 | 4.737 | 4.732 | (0.899) | 385473 | 10.0295 | 10.029 |
| 27 Bromochloromethane | 128 | 4.658 | 4.658 | (0.883) | 172638 | 21.3737 | 21.374 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 172150 | 10.3089 | 10.309 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 298619 | 9.77991 | 9.780 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 353750 | 10.1768 | 10.177 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 245644 | 9.63335 | 9.633 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.289 | 5.289 | (1.003) | 170088 | 11.4824 | 11.482 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 225833 | 10.8419 | 10.842 |
| 34 Benzene | 78 | 5.176 | 5.176 | (0.915) | 992247 | 10.2703 | 10.270 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 656413 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.619 | 5.620 | (0.993) | 283777 | 11.1045 | 11.104 |
| 37 1,2-Dichloropropane | 63 | 6.006 | 6.001 | (1.061) | 220857 | 10.6762 | 10.676 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 285161 | 10.6997 | 10.700 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 91893 | 10.9990 | 10.999 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.667 | 6.467 | (1.178) | 93593 | 15.7787 | 15.779 (QR) |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 49613 | 15.2270 | 15.227 (R) |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 314180 | 11.2722 | 11.272 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 808626 | 9.87372 | 9.874 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 667669 | 10.2263 | 10.226 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 236549 | 11.5355 | 11.536 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 55550 | 10.9717 | 10.972 |
| 47 1,1,2-Trichloroethane | 97 | 7.076 | 7.076 | (1.250) | 138194 | 11.0528 | 11.053 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 256881 | 10.9638 | 10.964 |
| 49 Tetrachloroethene | 166 | 6.928 | 6.928 | (0.898) | 279611 | 10.0268 | 10.027 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 175837 | 11.1060 | 11.106 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 126821 | 11.4938 | 11.494 |
| * 52 d5-Chlorobenzene | 117 | 7.719 | 7.720 | (1.000) | 607381 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 704717 | 10.1978 | 10.198 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1294365 | 9.96987 | 9.970 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 215649 | 10.6415 | 10.642 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 992421 | 20.3882 | 20.388 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 459007 | 10.3948 | 10.395 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 707634 | 10.6037 | 10.604 |
| 60 Isopropyl Benzene | 105 | 8.385 | 8.380 | (0.891) | 1224488 | 8.80020 | 8.800 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 85437 | 10.2258 | 10.226 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.738 | 8.732 | (0.929) | 120099 | 10.0891 | 10.089 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 266725 | 11.0782 | 11.078 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 36840 | 10.1680 | 10.168 (Q) |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.863 | (0.943) | 20974 | 9.43900 | 9.439 (Q) |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1422579 | 8.90934 | 8.909 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.659 | (0.921) | 246225 | 9.34357 | 9.344 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 954174 | 9.24200 | 9.242 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.789 | (0.935) | 901666 | 9.04614 | 9.046 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.947) | 796755 | 9.27037 | 9.270 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 780696 | 8.99315 | 8.993 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.968) | 928284 | 9.50799 | 9.508 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.976) | 1155020 | 8.98793 | 8.988 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 928588 | 9.47365 | 9.474 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.347 | (0.994) | 443515 | 9.70675 | 9.707 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.404 | (1.000) | 253596 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.415 | (1.001) | 424836 | 9.86230 | 9.862 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.615 | (1.022) | 763768 | 9.13315 | 9.133 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.728 | (1.034) | 200296 | 10.1380 | 10.138 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.734 | (1.035) | 334995 | 9.81082 | 9.811 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.354 | 10.349 | (1.100) | 11083 | 9.92497 | 9.925 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.872 | (1.156) | 141403 | 9.13207 | 9.132 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.850 | (1.154) | 64341 | 6.57737 | 6.577 (R) |
| 84 Naphthalene | 128 | 11.140 | 11.134 | (1.184) | 211930 | 9.92032 | 9.920 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.276 | (1.199) | 104123 | 9.57860 | 9.579 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: qn31ams.d
Lab Smp Id: QN31A
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-6027

Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: CB31A031110GRAB MS
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 395358 | -14.39 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 656413 | -12.02 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 607381 | -8.76 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 253596 | 7.61 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
 Sample Matrix: LIQUID
 Lab Smp Id: QN31A
 Level: LOW
 Data Type: MS DATA
 SpikeList File: allspike.spk
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-6027

Client SDG: QN31
 Fraction: VOA
 Client Smp ID: CB31A031110GRAB MS
 Operator: ar
 SampleType: MS
 Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 1 Dichlorodifluorome | 10.000 | 9.816 | 98.16 | 59-129 |
| 2 Chloromethane | 10.000 | 8.701 | 87.01 | 66-123 |
| 3 Vinyl Chloride | 10.000 | 10.156 | 101.56 | 68-121 |
| 4 Bromomethane | 10.000 | 8.176 | 81.76 | 55-148 |
| 5 Chloroethane | 10.000 | 8.871 | 88.71 | 47-155 |
| 6 Trichlorofluoromet | 10.000 | 8.829 | 88.29 | 70-129 |
| 8 Acrolein | 10.000 | 3.851 | 38.51 | 24-170 |
| 9 112Trichloro122Tri | 10.000 | 9.287 | 92.87 | 74-127 |
| 10 Acetone | 10.000 | 13.974 | 139.74* | 70-130 |
| 11 1,1-Dichloroethene | 10.000 | 9.026 | 90.26 | 72-120 |
| 12 Bromoethane | 10.000 | 8.772 | 87.72 | 73-131 |
| 13 Iodomethane | 10.000 | 8.165 | 81.65 | 34-183 |
| 14 Methylene Chloride | 10.000 | 8.325 | 83.25 | 70-124 |
| 15 Acrylonitrile | 10.000 | 11.436 | 114.36 | 71-135 |
| 17 Carbon Disulfide | 10.000 | 8.515 | 85.15 | 66-129 |
| 16 Methyl tert butyl | 20.000 | 17.525 | 87.62 | 78-120 |
| 18 Trans-1,2-Dichloro | 10.000 | 9.744 | 97.44 | 76-120 |
| 20 Vinyl Acetate | 10.000 | 9.424 | 94.24 | 49-134 |
| 21 1,1-Dichloroethane | 10.000 | 9.712 | 97.12 | 75-120 |
| 22 2-Butanone | 10.000 | 10.891 | 108.91 | 78-131 |
| 23 2,2-Dichloropropan | 10.000 | 10.743 | 107.43 | 68-121 |
| 24 Cis-1,2-Dichloroet | 10.000 | 9.947 | 99.47 | 80-120 |
| 26 Chloroform | 10.000 | 10.029 | 100.29 | 78-120 |
| 27 Bromochloromethane | 20.000 | 21.374 | 106.87 | 79-120 |
| 29 1,1,1-Trichloroeth | 10.000 | 9.780 | 97.80 | 76-120 |
| 30 1,1-Dichloropropen | 10.000 | 10.177 | 101.77 | 78-120 |
| 31 Carbon Tetrachlori | 10.000 | 9.633 | 96.33 | 70-126 |
| 33 1,2-Dichloroethane | 10.000 | 10.842 | 108.42 | 78-120 |
| 34 Benzene | 10.000 | 10.270 | 102.70 | 79-120 |
| 36 Trichloroethene | 10.000 | 11.104 | 111.04 | 78-120 |
| 37 1,2-Dichloropropan | 10.000 | 10.676 | 106.76 | 80-120 |
| 38 Bromodichlorometha | 10.000 | 10.700 | 107.00 | 78-120 |
| 39 Dibromomethane | 10.000 | 10.999 | 109.99 | 80-120 |

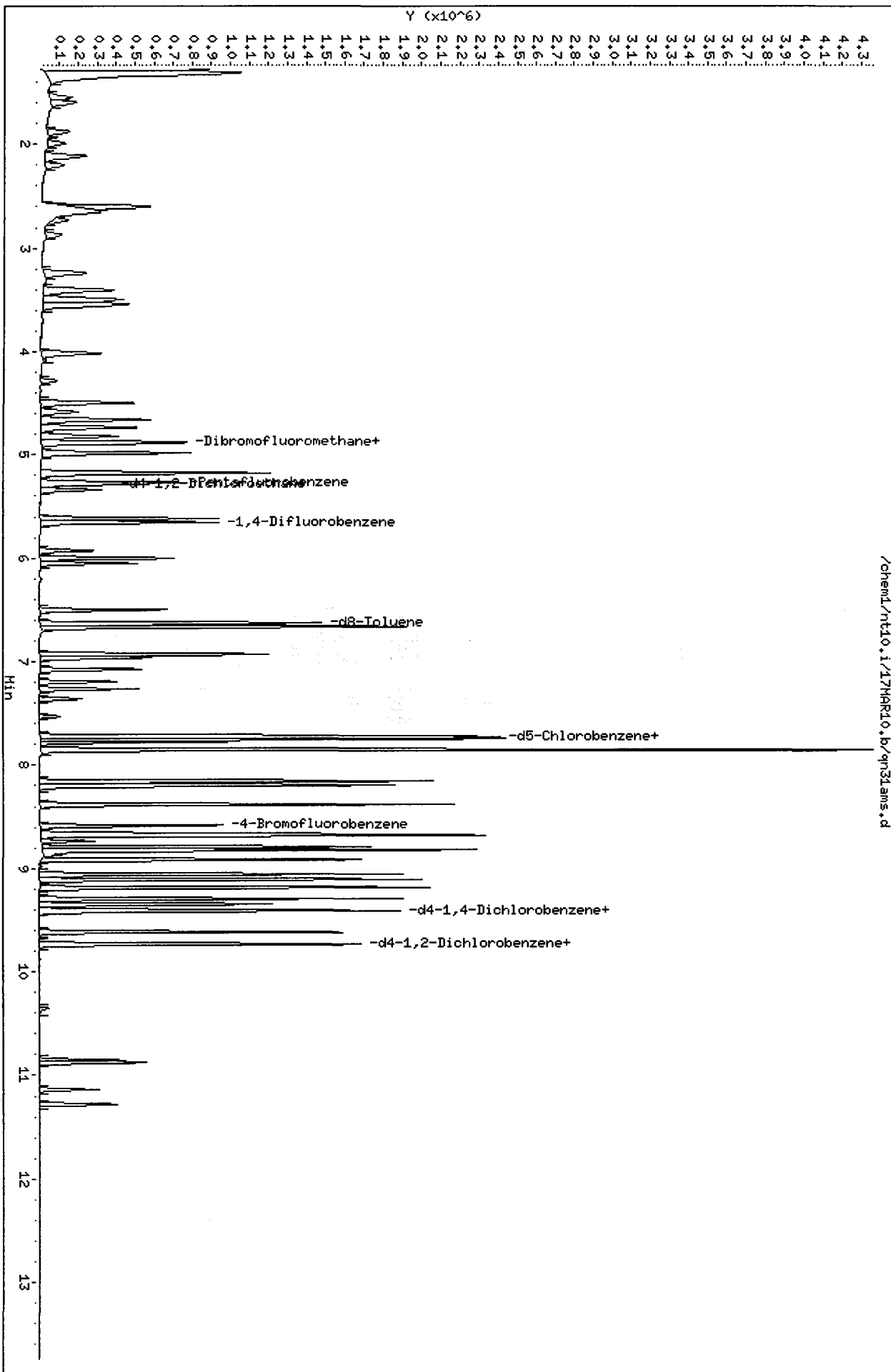
| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|--------------------|--------|
| 40 2-Chloroethyl Viny | 10.000 | 15.779 | 157.79* | 68-134 |
| 41 4-Methyl-2-Pentano | 10.000 | 15.227 | 152.27* | 73-131 |
| 42 Cis 1,3-dichloropr | 10.000 | 11.272 | 112.72 | 78-120 |
| 44 Toluene | 10.000 | 10.226 | 102.26 | 79-120 |
| 45 Trans 1,3-Dichloro | 10.000 | 11.536 | 115.36 | 75-120 |
| 46 2-Hexanone | 10.000 | 10.972 | 109.72 | 75-130 |
| 47 1,1,2-Trichloroeth | 10.000 | 11.053 | 110.53 | 79-120 |
| 48 1,3-Dichloropropan | 10.000 | 10.964 | 109.64 | 78-120 |
| 49 Tetrachloroethene | 10.000 | 10.027 | 100.27 | 72-120 |
| 50 Chlorodibromometha | 10.000 | 11.106 | 111.06 | 78-120 |
| 51 1,2-Dibromoethane | 10.000 | 11.494 | 114.94 | 75-120 |
| 53 Chlorobenzene | 10.000 | 10.198 | 101.98 | 79-120 |
| 55 1,1,1,2-Tetrachlor | 10.000 | 10.642 | 106.42 | 75-120 |
| 54 Ethyl Benzene | 10.000 | 9.970 | 99.70 | 78-120 |
| 56 m,p-xylene | 20.000 | 20.388 | 101.94 | 65-129 |
| 58 o-Xylene | 10.000 | 10.395 | 103.95 | 76-120 |
| 59 Styrene | 10.000 | 10.604 | 106.04 | 74-121 |
| 60 Isopropyl Benzene | 10.000 | 8.800 | 88.00 | 74-120 |
| 61 Bromoform | 10.000 | 10.226 | 102.26 | 71-120 |
| 62 1,1,2,2-Tetrachlor | 10.000 | 10.089 | 100.89 | 70-120 |
| 64 1,2,3-Trichloropro | 10.000 | 10.168 | 101.68 | 73-120 |
| 65 Trans-1,4-Dichloro | 10.000 | 9.439 | 94.39 | 65-135 |
| 66 N-Propyl Benzene | 10.000 | 8.909 | 89.09 | 76-121 |
| 67 Bromobenzene | 10.000 | 9.344 | 93.44 | 72-120 |
| 68 1,3,5-Trimethyl Be | 10.000 | 9.242 | 92.42 | 74-123 |
| 69 2-Chloro Toluene | 10.000 | 9.046 | 90.46 | 74-120 |
| 70 4-Chloro Toluene | 10.000 | 9.270 | 92.70 | 75-120 |
| 71 T-Butyl Benzene | 10.000 | 8.993 | 89.93 | 73-121 |
| 72 1,2,4-Trimethylben | 10.000 | 9.508 | 95.08 | 73-124 |
| 73 S-Butyl Benzene | 10.000 | 8.988 | 89.88 | 75-123 |
| 74 4-Isopropyl Toluen | 10.000 | 9.474 | 94.74 | 71-125 |
| 75 1,3-Dichlorobenzen | 10.000 | 9.707 | 97.07 | 72-120 |
| 77 1,4-Dichlorobenzen | 10.000 | 9.862 | 98.62 | 76-120 |
| 78 N-Butyl Benzene | 10.000 | 9.133 | 91.33 | 72-124 |
| 80 1,2-Dichlorobenzen | 10.000 | 9.811 | 98.11 | 75-120 |
| 81 1,2-Dibromo 3-Chlo | 10.000 | 9.925 | 99.25 | 67-121 |
| 82 1,2,4-Trichloroben | 10.000 | 9.132 | 91.32 | 71-120 |
| 83 Hexachloro 1,3-But | 10.000 | 6.577 | 65.77* | 67-124 |
| 84 Naphthalene | 10.000 | 9.920 | 99.20 | 71-125 |
| 85 1,2,3-Trichloroben | 10.000 | 9.579 | 95.79 | 61-134 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.309 | 103.09 | 60-130 |

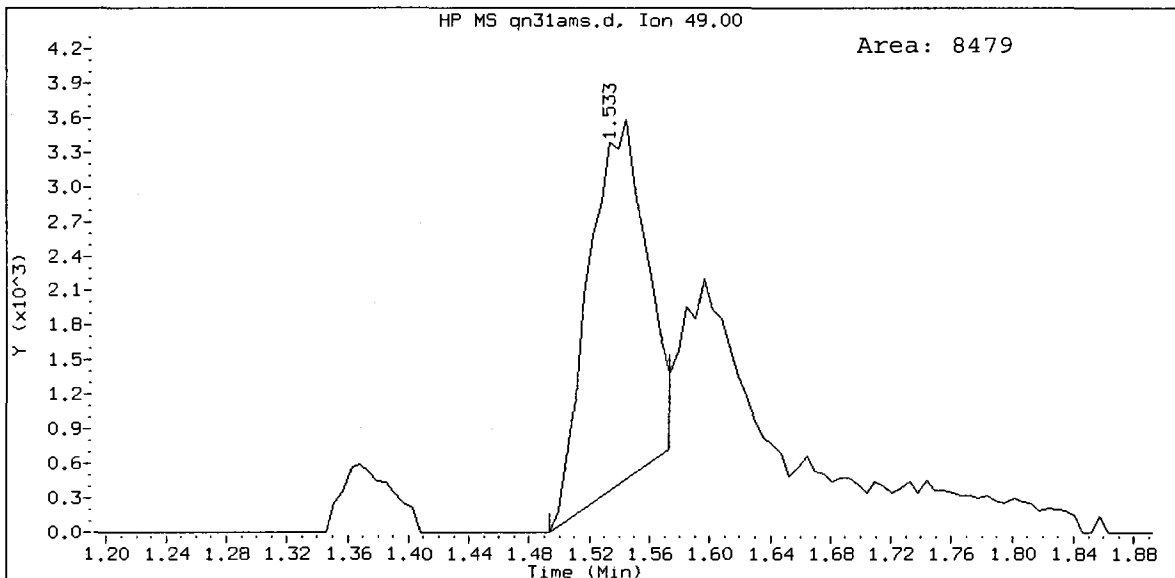
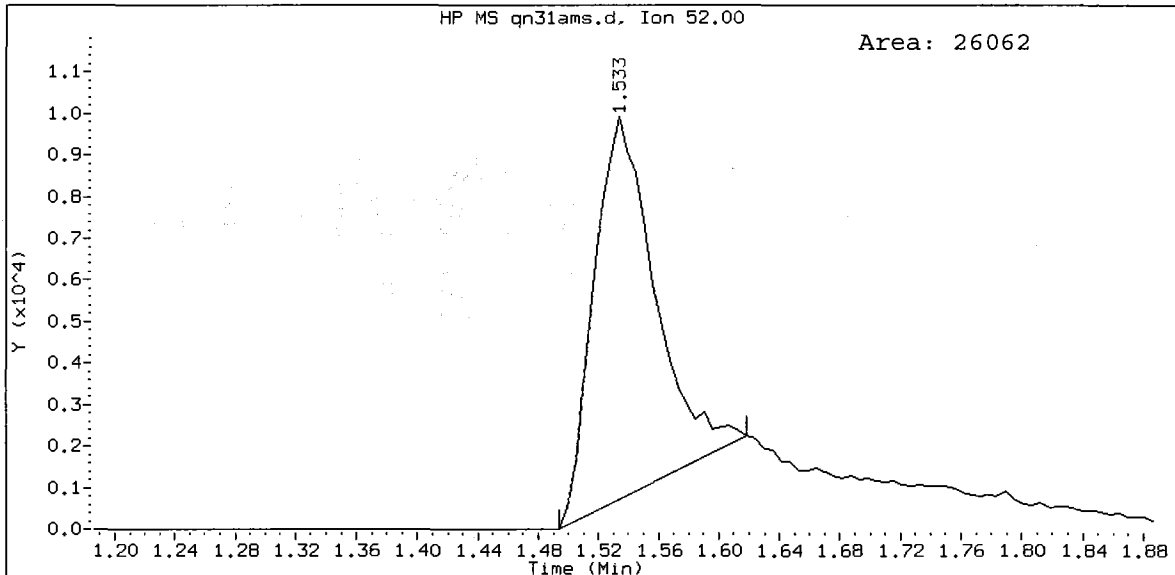
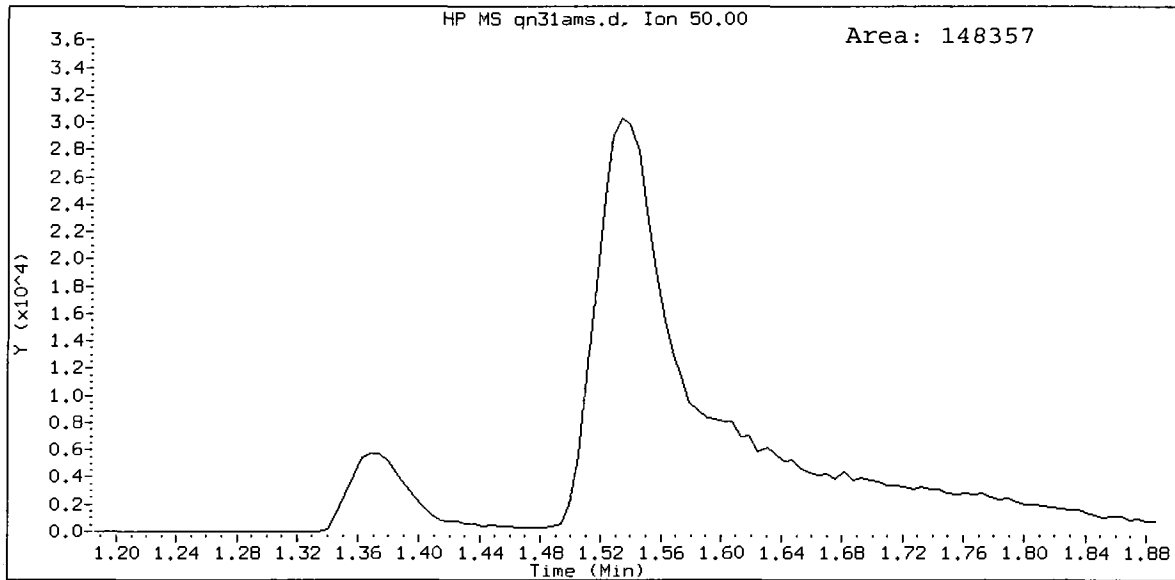
| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.482 | 114.82 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.874 | 98.74 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 11.078 | 110.78 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.138 | 101.38 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/qn31ams.d
Date : 17-MAR-2010 21:58
Client ID: CB31A031110CRAB MS
Sample Info: QN31A,10,10,0,MS
Column phase: RTX502.2

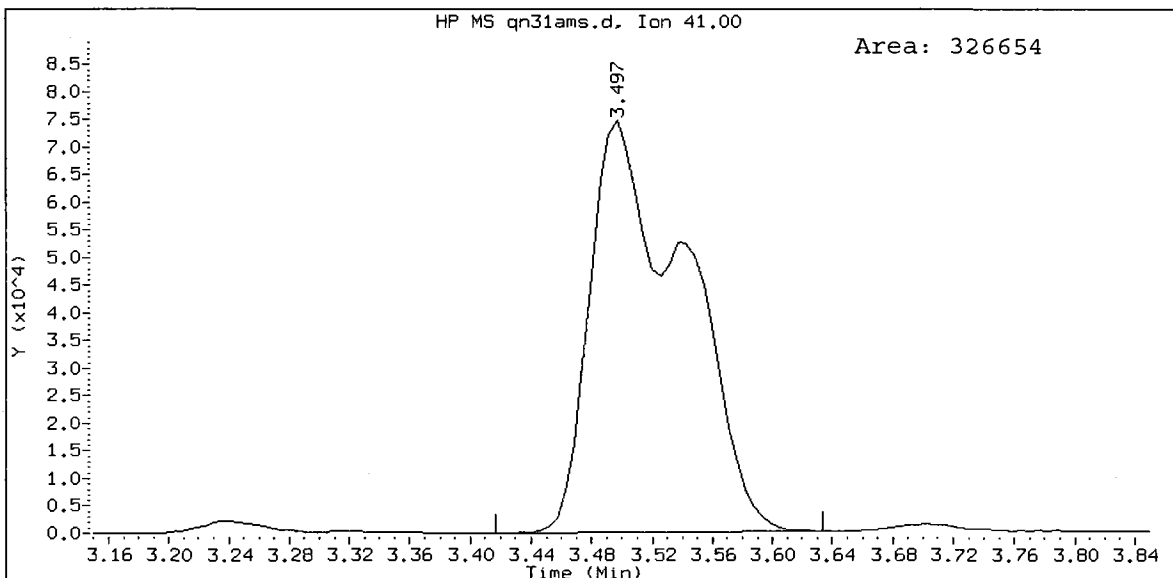
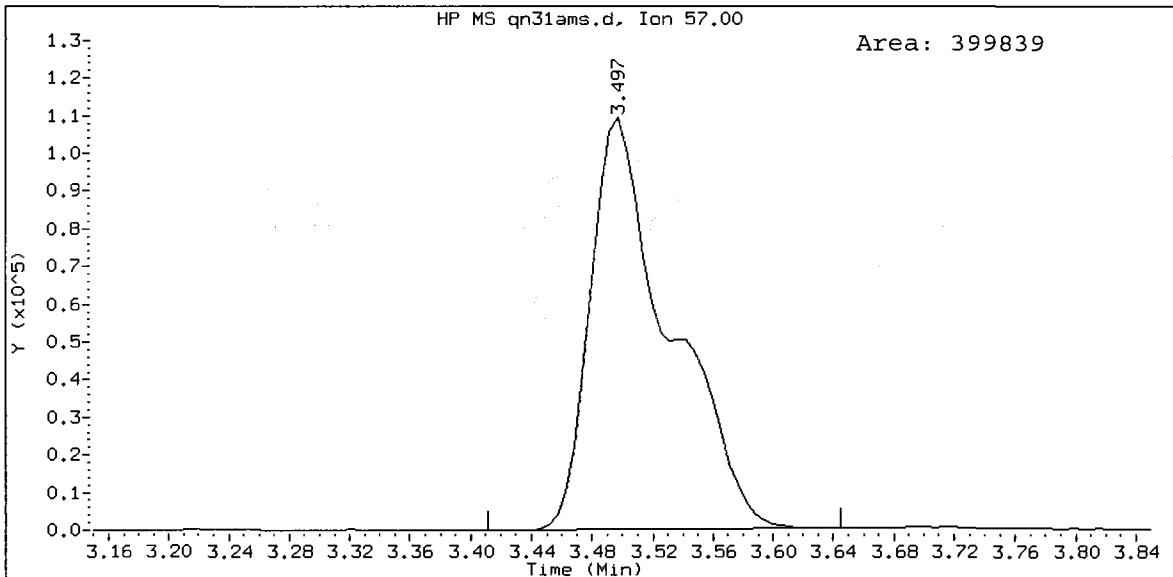
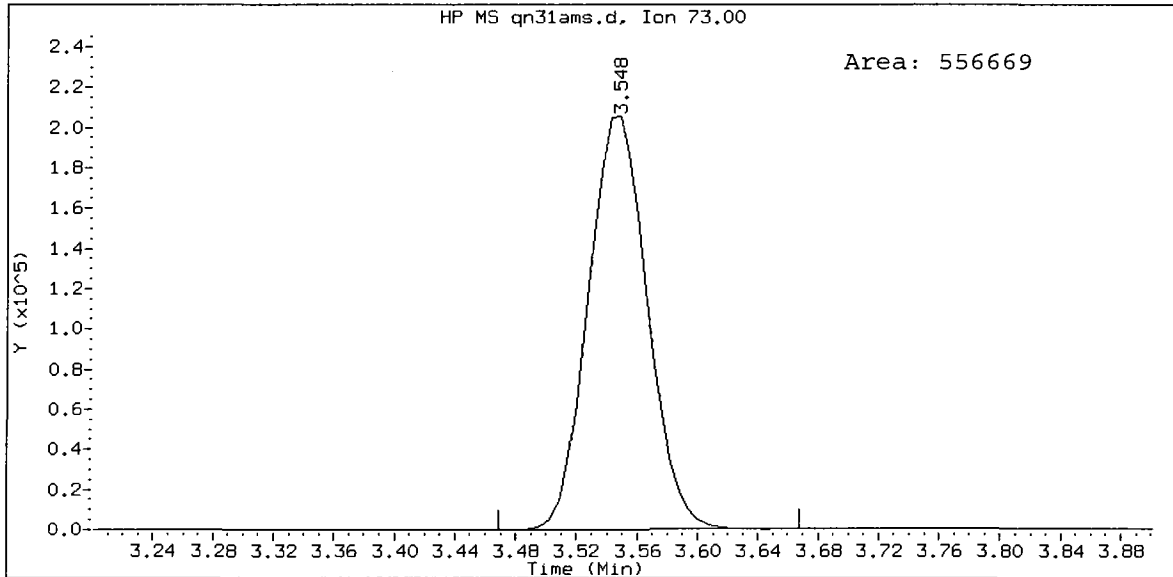
Instrument: nt10.i
Operator: ar
Column diameter: 0.18



QN31A, /chem1/nt10.i/17MAR10.b/qn31ams.d
Chloromethane Amount: 8.70




QN31A, /chem1/nt10.i/17MAR10.b/qn31ams.d
Methyl tert butyl ether Amount: 17.52



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A031110GRAB
MATRIX SPIKE DUP

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/17/10 22:23

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------|--------------------|-----|--------|---|
| 107-06-2 | 1,2-Dichloroethane | 0.2 | --- | |

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 114%

Analytical Resources, Inc.

AR 3/18/2010

8260C

Data file : /chem1/nt10.i/17MAR10.b/qn31amsd.d
 Lab Smp Id: QN31A Client Smp ID: CB31A031110GRAB MSD
 Inj Date : 17-MAR-2010 22:23
 Operator : ar Inst ID: nt10.i
 Smp Info : QN31A,10,10,0,MSD
 Misc Info : 10-6027
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | | 1.374 | 1.374 | (0.261) | 154348 | 10.1222 | 10.122 |
| 2 Chloromethane | 50 | | 1.539 | 1.533 | (0.292) | 166009 | 9.57965 | 9.580(M) |
| 3 Vinyl Chloride | 62 | | 1.602 | 1.596 | (0.304) | 219571 | 9.92098 | 9.921 |
| 4 Bromomethane | 94 | | 1.881 | 1.875 | (0.357) | 170564 | 9.17306 | 9.173 |
| 5 Chloroethane | 64 | | 1.994 | 1.989 | (0.378) | 167359 | 9.66355 | 9.664 |
| 6 Trichlorofluoromethane | 101 | | 2.120 | 2.114 | (0.402) | 302421 | 9.77423 | 9.774 |
| 8 Acrolein | 56 | | 2.985 | 2.979 | (0.566) | 3507 | 6.77646 | 6.776(Q) |
| 9 112Trichloro122Trifluoroethane | 101 | | 2.660 | 2.654 | (0.505) | 189481 | 10.0988 | 10.099 |
| 10 Acetone | 43 | | 3.332 | 3.320 | (0.632) | 33460 | 14.3341 | 14.334(R) |
| 11 1,1-Dichloroethene | 96 | | 2.603 | 2.598 | (0.494) | 222172 | 9.61911 | 9.619 |
| 12 Bromoethane | 108 | | 2.876 | 2.871 | (0.546) | 133914 | 9.84954 | 9.850 |
| 13 Iodomethane | 142 | | 2.740 | 2.734 | (0.520) | 266753 | 9.79388 | 9.794 |
| 14 Methylene Chloride | 84 | | 3.246 | 3.241 | (0.616) | 200750 | 9.68508 | 9.685 |
| 15 Acrylonitrile | 53 | | 4.089 | 4.089 | (0.775) | 26636 | 11.7090 | 11.709 |
| 16 Methyl tert butyl ether | 73 | | 3.548 | 3.548 | (0.673) | 602627 | 18.6674 | 18.667(M) |
| 17 Carbon Disulfide | 76 | | 2.609 | 2.603 | (0.495) | 674635 | 9.61784 | 9.618 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|--------------------------------|-----------|-------|--------|---------|----------------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 18 Trans-1,2-Dichloroethene | 96 | 3.411 | 3.406 | (0.647) | 233530 | 10.2056 | 10.206 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 150410 | 10.4181 | 10.418 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.015 | (0.763) | 390706 | 10.5176 | 10.518 |
| 22 2-Butanone | 72 | 4.988 | 4.982 | (0.946) | 26097 | 11.0167 | 11.017 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 137430 | 11.4705 | 11.470 |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 252272 | 10.4044 | 10.404 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 401800 | 10.0000 | |
| 26 Chloroform | 83 | 4.737 | 4.732 | (0.899) | 409944 | 10.4952 | 10.495 |
| 27 Bromochloromethane | 128 | 4.664 | 4.658 | (0.884) | 185926 | 22.6498 | 22.650 |
| \$ 28 Dibromofluoromethane | 111 | 4.885 | 4.880 | (0.927) | 180464 | 10.6335 | 10.633 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 325970 | 10.5045 | 10.505 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 370310 | 10.4354 | 10.435 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 271560 | 10.4320 | 10.432 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 171991 | 11.4248 | 11.425 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 231164 | 10.8711 | 10.871 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 1027157 | 10.4143 | 10.414 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 670108 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 290938 | 11.1520 | 11.152 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.001 | (1.061) | 223610 | 10.5883 | 10.588 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 289078 | 10.6250 | 10.625 |
| 39 Dibromomethane | 93 | 5.933 | 5.927 | (1.048) | 94584 | 11.0897 | 11.090 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.667 | 6.467 | (1.178) | 97305 | 16.0692 | 16.069 (QR) |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 50341 | 15.1347 | 15.135 (R) |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 316866 | 11.1362 | 11.136 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 826542 | 9.88623 | 9.886 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 688305 | 10.3269 | 10.327 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 245241 | 11.7150 | 11.715 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 56763 | 11.0116 | 11.012 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.250) | 140979 | 11.0451 | 11.045 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 258119 | 10.8204 | 10.820 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 284021 | 10.0036 | 10.004 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 178204 | 11.0551 | 11.055 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 127619 | 11.3298 | 11.330 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 618394 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 723767 | 10.2870 | 10.287 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1332377 | 10.0799 | 10.080 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.776 | (1.007) | 225592 | 10.9339 | 10.934 |
| 56 m,p-xylene | 106 | 7.850 | 7.850 | (1.017) | 1032894 | 20.8417 | 20.842 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 472371 | 10.5069 | 10.507 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 730870 | 10.7569 | 10.757 |
| 60 Isopropyl Benzene | 105 | 8.385 | 8.380 | (0.891) | 1271283 | 8.68203 | 8.682 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.873) | 87417 | 9.94230 | 9.942 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.738 | 8.732 | (0.929) | 124566 | 9.94379 | 9.944 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 274738 | 11.2078 | 11.208 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 37788 | 9.91086 | 9.911 |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.869 | 8.863 | (0.943) | 22270 | 9.52101 | 9.521 |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1485401 | 8.84003 | 8.840 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|--------------------------------|-----------|--------|--------|---------|----------------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.659 | (0.921) | 253339 | 9.13532 | 9.135 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 998233 | 9.18780 | 9.188 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.789 | (0.935) | 932674 | 8.89178 | 8.892 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.947) | 824247 | 9.11320 | 9.113 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.962) | 812617 | 8.89523 | 8.895 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.968) | 969852 | 9.43962 | 9.440 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.976) | 1201982 | 8.88811 | 8.888 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 975403 | 9.45626 | 9.456 |
| 75 1,3-Dichlorobenzene | 146 | 9.353 | 9.347 | (0.994) | 462630 | 9.62144 | 9.621 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.410 | 9.404 | (1.000) | 266871 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.421 | 9.415 | (1.001) | 445597 | 9.82970 | 9.830 |
| 78 N-Butyl Benzene | 91 | 9.620 | 9.615 | (1.022) | 804251 | 9.13886 | 9.139 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.734 | 9.728 | (1.034) | 208839 | 10.0446 | 10.045 |
| 80 1,2-Dichlorobenzene | 146 | 9.740 | 9.734 | (1.035) | 351410 | 9.77962 | 9.780 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.349 | (1.100) | 10825 | 9.21172 | 9.212 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.872 | (1.156) | 140368 | 8.61429 | 8.614 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.855 | 10.850 | (1.154) | 62729 | 6.09360 | 6.094 (R) |
| 84 Naphthalene | 128 | 11.140 | 11.134 | (1.184) | 209991 | 9.34060 | 9.341 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.282 | 11.276 | (1.199) | 103071 | 9.01017 | 9.010 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|--|------------------------------------|
| Instrument ID: nt10.i | Calibration Date: 17-MAR-2010 |
| Lab File ID: qn31amsd.d | Calibration Time: 11:00 |
| Lab Smp Id: QN31A | Client Smp ID: CB31A031110GRAB MSD |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: Water |
| Operator: ar | |
| Method File: /chem1/nt10.i/17MAR10.b/82600304L.m | |
| Misc Info: 10-6027 | |

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 401800 | -12.99 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 670108 | -10.19 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 618394 | -7.11 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 266871 | 13.24 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.41 | 0.06 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
 Sample Matrix: LIQUID
 Lab Smp Id: QN31A
 Level: LOW
 Data Type: MS DATA
 SpikeList File: allspike.spk
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-6027

Client SDG: QN31
 Fraction: VOA
 Client Smp ID: CB31A031110GRAB MSD
 Operator: ar
 SampleType: MSD
 Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 1 Dichlorodifluorome | 10.000 | 10.122 | 101.22 | 59-129 |
| 2 Chloromethane | 10.000 | 9.580 | 95.80 | 66-123 |
| 3 Vinyl Chloride | 10.000 | 9.921 | 99.21 | 68-121 |
| 4 Bromomethane | 10.000 | 9.173 | 91.73 | 55-148 |
| 5 Chloroethane | 10.000 | 9.664 | 96.64 | 47-155 |
| 6 Trichlorofluoromet | 10.000 | 9.774 | 97.74 | 70-129 |
| 8 Acrolein | 10.000 | 6.776 | 67.76 | 24-170 |
| 9 112Trichloro122Tri | 10.000 | 10.099 | 100.99 | 74-127 |
| 10 Acetone | 10.000 | 14.334 | 143.34* | 70-130 |
| 11 1,1-Dichloroethene | 10.000 | 9.619 | 96.19 | 72-120 |
| 12 Bromoethane | 10.000 | 9.850 | 98.50 | 73-131 |
| 13 Iodomethane | 10.000 | 9.794 | 97.94 | 34-183 |
| 14 Methylene Chloride | 10.000 | 9.685 | 96.85 | 70-124 |
| 15 Acrylonitrile | 10.000 | 11.709 | 117.09 | 71-135 |
| 17 Carbon Disulfide | 10.000 | 9.618 | 96.18 | 66-129 |
| 16 Methyl tert butyl | 20.000 | 18.667 | 93.34 | 78-120 |
| 18 Trans-1,2-Dichloro | 10.000 | 10.206 | 102.06 | 76-120 |
| 20 Vinyl Acetate | 10.000 | 10.418 | 104.18 | 49-134 |
| 21 1,1-Dichloroethane | 10.000 | 10.518 | 105.18 | 75-120 |
| 22 2-Butanone | 10.000 | 11.017 | 110.17 | 78-131 |
| 23 2,2-Dichloropropan | 10.000 | 11.470 | 114.70 | 68-121 |
| 24 Cis-1,2-Dichloroet | 10.000 | 10.404 | 104.04 | 80-120 |
| 26 Chloroform | 10.000 | 10.495 | 104.95 | 78-120 |
| 27 Bromochloromethane | 20.000 | 22.650 | 113.25 | 79-120 |
| 29 1,1,1-Trichloroeth | 10.000 | 10.505 | 105.05 | 76-120 |
| 30 1,1-Dichloropropen | 10.000 | 10.435 | 104.35 | 78-120 |
| 31 Carbon Tetrachlori | 10.000 | 10.432 | 104.32 | 70-126 |
| 33 1,2-Dichloroethane | 10.000 | 10.871 | 108.71 | 78-120 |
| 34 Benzene | 10.000 | 10.414 | 104.14 | 79-120 |
| 36 Trichloroethene | 10.000 | 11.152 | 111.52 | 78-120 |
| 37 1,2-Dichloropropan | 10.000 | 10.588 | 105.88 | 80-120 |
| 38 Bromodichlorometha | 10.000 | 10.625 | 106.25 | 78-120 |
| 39 Dibromomethane | 10.000 | 11.090 | 110.90 | 80-120 |

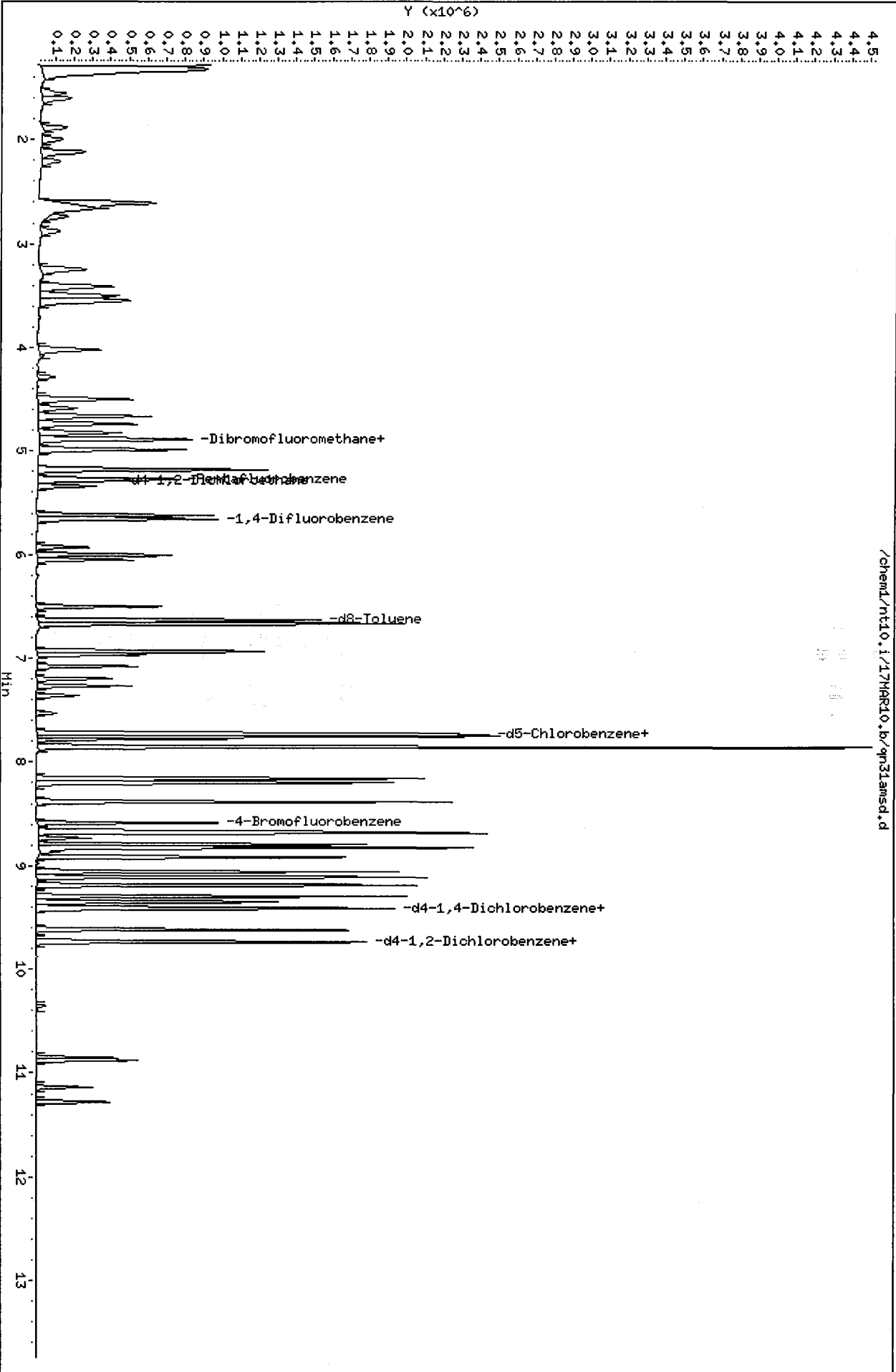
| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|--------------------|--------|
| 40 2-Chloroethyl Viny | 10.000 | 16.069 | 160.69* | 68-134 |
| 41 4-Methyl-2-Pentano | 10.000 | 15.135 | 151.35* | 73-131 |
| 42 Cis 1,3-dichloropr | 10.000 | 11.136 | 111.36 | 78-120 |
| 44 Toluene | 10.000 | 10.327 | 103.27 | 79-120 |
| 45 Trans 1,3-Dichloro | 10.000 | 11.715 | 117.15 | 75-120 |
| 46 2-Hexanone | 10.000 | 11.012 | 110.12 | 75-130 |
| 47 1,1,2-Trichloroeth | 10.000 | 11.045 | 110.45 | 79-120 |
| 48 1,3-Dichloropropan | 10.000 | 10.820 | 108.20 | 78-120 |
| 49 Tetrachloroethene | 10.000 | 10.004 | 100.04 | 72-120 |
| 50 Chlorodibromometha | 10.000 | 11.055 | 110.55 | 78-120 |
| 51 1,2-Dibromoethane | 10.000 | 11.330 | 113.30 | 75-120 |
| 53 Chlorobenzene | 10.000 | 10.287 | 102.87 | 79-120 |
| 55 1,1,1,2-Tetrachlor | 10.000 | 10.934 | 109.34 | 75-120 |
| 54 Ethyl Benzene | 10.000 | 10.080 | 100.80 | 78-120 |
| 56 m,p-xylene | 20.000 | 20.842 | 104.21 | 65-129 |
| 58 o-Xylene | 10.000 | 10.507 | 105.07 | 76-120 |
| 59 Styrene | 10.000 | 10.757 | 107.57 | 74-121 |
| 60 Isopropyl Benzene | 10.000 | 8.682 | 86.82 | 74-120 |
| 61 Bromoform | 10.000 | 9.942 | 99.42 | 71-120 |
| 62 1,1,2,2-Tetrachlor | 10.000 | 9.944 | 99.44 | 70-120 |
| 64 1,2,3-Trichloropro | 10.000 | 9.911 | 99.11 | 73-120 |
| 65 Trans-1,4-Dichloro | 10.000 | 9.521 | 95.21 | 65-135 |
| 66 N-Propyl Benzene | 10.000 | 8.840 | 88.40 | 76-121 |
| 67 Bromobenzene | 10.000 | 9.135 | 91.35 | 72-120 |
| 68 1,3,5-Trimethyl Be | 10.000 | 9.188 | 91.88 | 74-123 |
| 69 2-Chloro Toluene | 10.000 | 8.892 | 88.92 | 74-120 |
| 70 4-Chloro Toluene | 10.000 | 9.113 | 91.13 | 75-120 |
| 71 T-Butyl Benzene | 10.000 | 8.895 | 88.95 | 73-121 |
| 72 1,2,4-Trimethylben | 10.000 | 9.440 | 94.40 | 73-124 |
| 73 S-Butyl Benzene | 10.000 | 8.888 | 88.88 | 75-123 |
| 74 4-Isopropyl Toluen | 10.000 | 9.456 | 94.56 | 71-125 |
| 75 1,3-Dichlorobenzen | 10.000 | 9.621 | 96.21 | 72-120 |
| 77 1,4-Dichlorobenzen | 10.000 | 9.830 | 98.30 | 76-120 |
| 78 N-Butyl Benzene | 10.000 | 9.139 | 91.39 | 72-124 |
| 80 1,2-Dichlorobenzen | 10.000 | 9.780 | 97.80 | 75-120 |
| 81 1,2-Dibromo 3-Chlo | 10.000 | 9.212 | 92.12 | 67-121 |
| 82 1,2,4-Trichloroben | 10.000 | 8.614 | 86.14 | 71-120 |
| 83 Hexachloro 1,3-But | 10.000 | 6.094 | 60.94* | 67-124 |
| 84 Naphthalene | 10.000 | 9.341 | 93.41 | 71-125 |
| 85 1,2,3-Trichloroben | 10.000 | 9.010 | 90.10 | 61-134 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.633 | 106.33 | 60-130 |

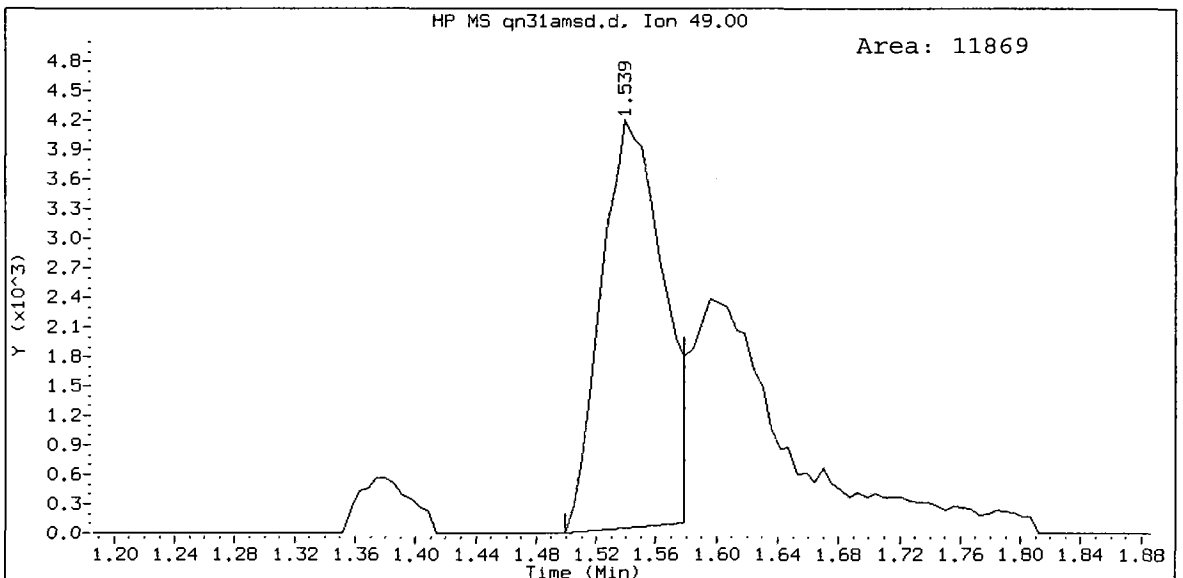
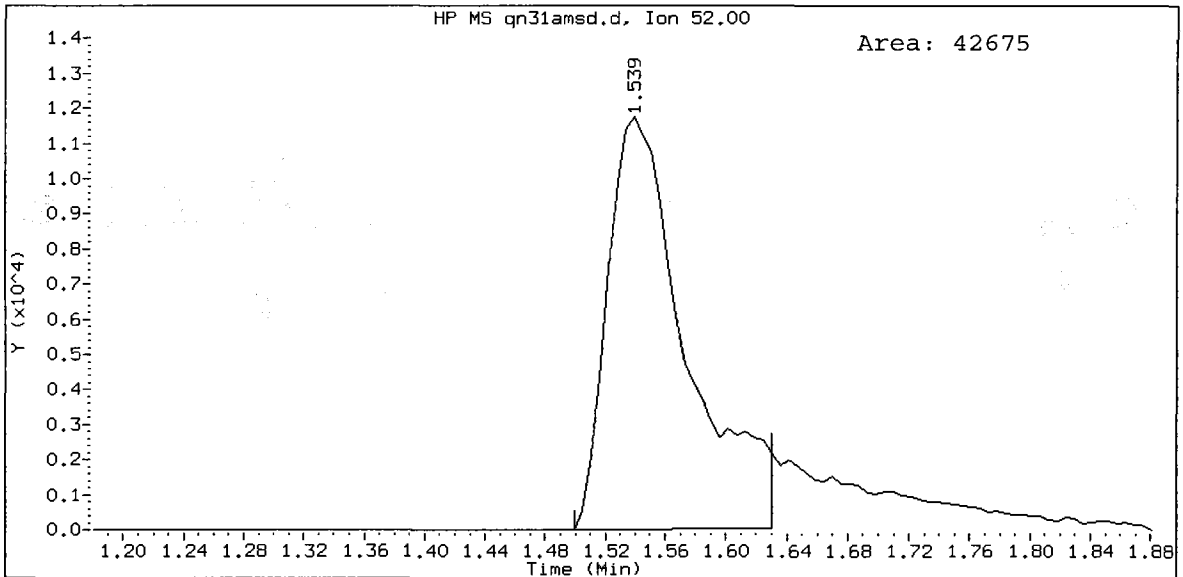
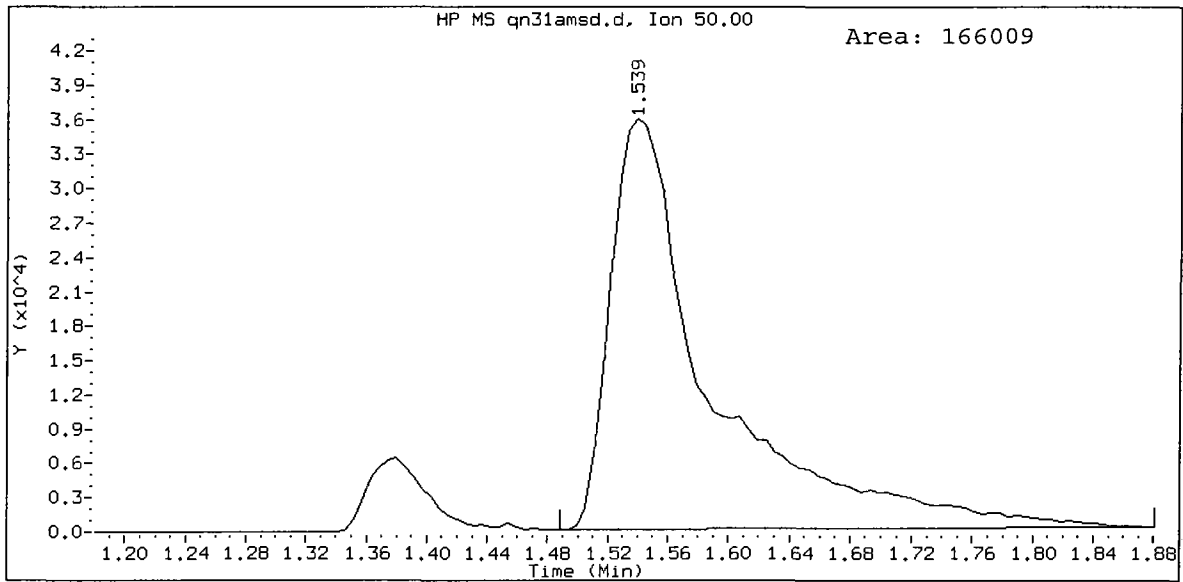
| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.425 | 114.25 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.886 | 98.86 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 11.208 | 112.08 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.045 | 100.45 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/qn31amsd.d
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Sample Info: QN31A,10,10,0,MSD
Column phase: RTX502.2

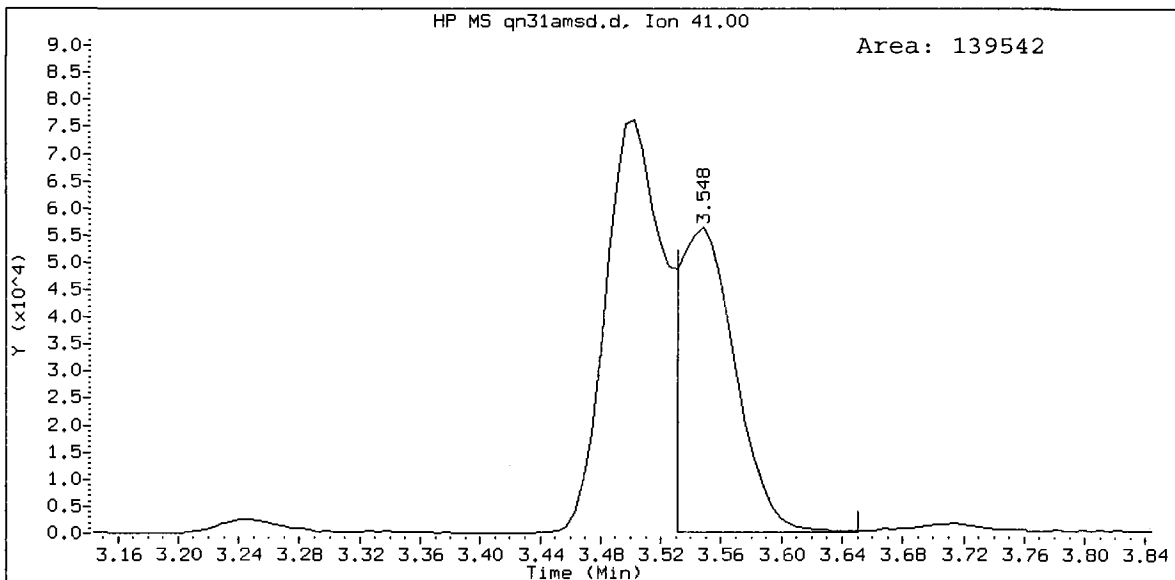
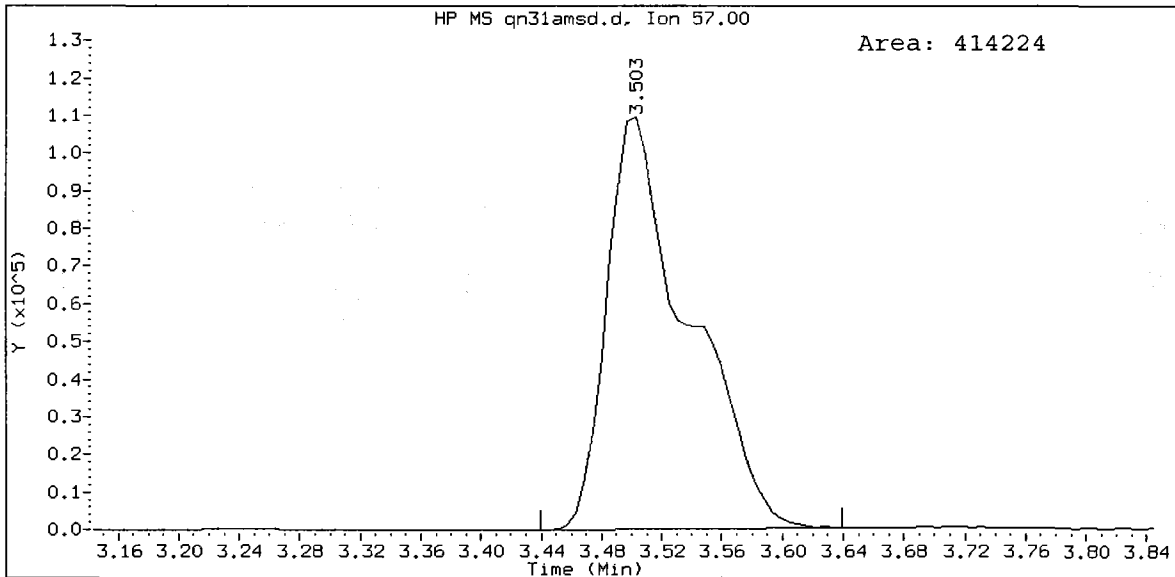
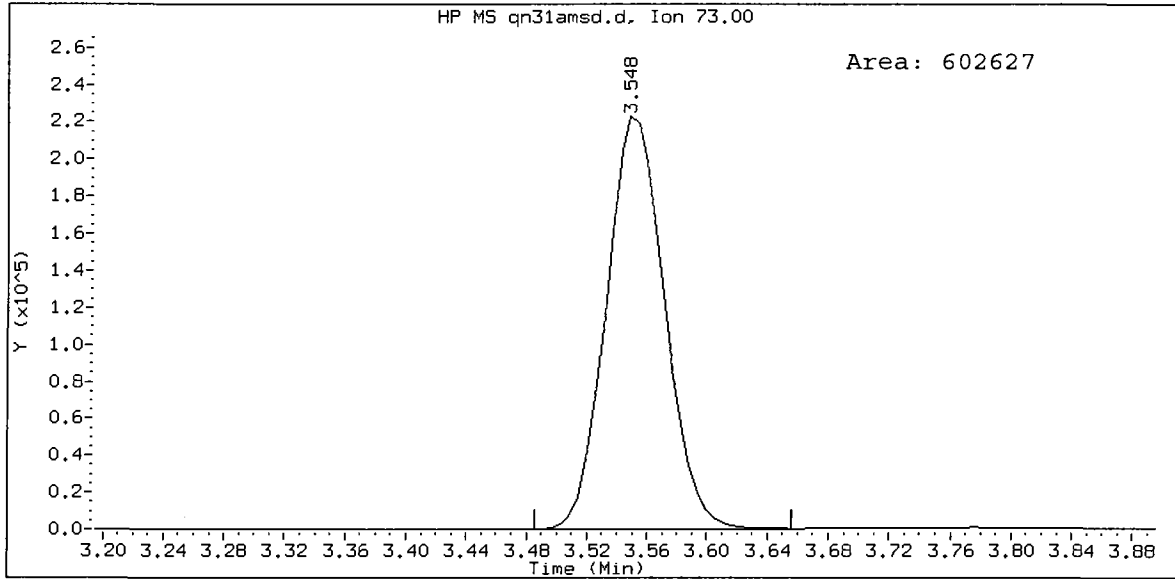
Instrument: nt10.i
Operator: ar
Column diameter: 0.18



QN31A, /chem1/nt10.i/17MAR10.b/qn31amsd.d
Chloromethane Amount: 9.58



QN31A, /chem1/nt10.i/17MAR10.b/qn31amsd.d
Methyl tert butyl ether Amount: 18.67



Analytical Resources, Inc.

AR 3/17/2010

8260C

Data file : /chem1/nt10.i/17MAR10.b/lcs0317.d
Lab Smp Id: LCS0317 Client Smp ID: LCS0317
Inj Date : 17-MAR-2010 11:25
Operator : ar Inst ID: nt10.i
Smp Info : LCS0317,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/17MAR10.b/82600304L.m
Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | |
|----------------------------------|-----------|----------------|-------|---------|--------|----------|-------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.374 | (0.262) | 73474 | 4.59049 | 4.590 (RM) |
| 2 Chloromethane | 50 | 1.545 | 1.533 | (0.293) | 106434 | 5.85122 | 5.851 (RM) |
| 3 Vinyl Chloride | 62 | 1.607 | 1.596 | (0.305) | 162995 | 7.01618 | 7.016 |
| 4 Bromomethane | 94 | 1.886 | 1.875 | (0.358) | 134205 | 6.87612 | 6.876 (M) |
| 5 Chloroethane | 64 | 2.000 | 1.989 | (0.379) | 137718 | 7.57579 | 7.576 (M) |
| 6 Trichlorofluoromethane | 101 | 2.120 | 2.114 | (0.402) | 257025 | 7.91396 | 7.914 (M) |
| 8 Acrolein | 56 | 2.985 | 2.979 | (0.566) | 3278 | 6.03424 | 6.034 (Q) |
| 9 112Trichloro122Trifluoroethane | 101 | 2.666 | 2.654 | (0.506) | 171318 | 8.69865 | 8.699 |
| 10 Acetone | 43 | 3.332 | 3.320 | (0.632) | 24415 | 9.96435 | 9.964 (M) |
| 11 1,1-Dichloroethene | 96 | 2.609 | 2.598 | (0.495) | 193020 | 7.96149 | 7.961 |
| 12 Bromoethane | 108 | 2.882 | 2.871 | (0.547) | 118051 | 8.27191 | 8.272 |
| 13 Iodomethane | 142 | 2.740 | 2.734 | (0.520) | 221394 | 7.74387 | 7.744 |
| 14 Methylene Chloride | 84 | 3.252 | 3.241 | (0.617) | 177030 | 8.13656 | 8.137 |
| 15 Acrylonitrile | 53 | 4.089 | 4.089 | (0.775) | 26437 | 11.0716 | 11.072 |
| 16 Methyl tert butyl ether | 73 | 3.554 | 3.548 | (0.674) | 568194 | 16.7679 | 16.768 (Q) |
| 17 Carbon Disulfide | 76 | 2.609 | 2.603 | (0.495) | 544938 | 7.40121 | 7.401 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|--------------------------------|-----------|-------|--------|---------|----------------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 18 Trans-1,2-Dichloroethene | 96 | 3.412 | 3.406 | (0.647) | 221864 | 9.23698 | 9.237 |
| 20 Vinyl Acetate | 43 | 4.288 | 4.282 | (0.813) | 171080 | 11.2890 | 11.289 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.015 | (0.763) | 378776 | 9.71395 | 9.714 |
| 22 2-Butanone | 72 | 4.988 | 4.982 | (0.946) | 25632 | 10.3083 | 10.308 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 166261 | 13.2202 | 13.220 (R) |
| 24 Cis-1,2-Dichloroethene | 96 | 4.498 | 4.498 | (0.853) | 245698 | 9.65372 | 9.654 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 421758 | 10.0000 | |
| 26 Chloroform | 83 | 4.738 | 4.732 | (0.899) | 408579 | 9.96523 | 9.965 |
| 27 Bromochloromethane | 128 | 4.664 | 4.658 | (0.884) | 180890 | 20.9936 | 20.994 |
| \$ 28 Dibromofluoromethane | 111 | 4.885 | 4.880 | (0.927) | 181340 | 10.1795 | 10.179 |
| 29 1,1,1-Trichloroethane | 97 | 4.885 | 4.885 | (0.927) | 304773 | 9.35666 | 9.357 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 369528 | 9.92606 | 9.926 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 266875 | 9.77227 | 9.772 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 175370 | 11.0980 | 11.098 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 234025 | 10.4906 | 10.491 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 1026143 | 9.91713 | 9.917 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 703009 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 296488 | 10.8329 | 10.833 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.001 | (1.061) | 228962 | 10.3344 | 10.334 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 292937 | 10.2630 | 10.263 |
| 39 Dibromomethane | 93 | 5.933 | 5.927 | (1.048) | 97379 | 10.8831 | 10.883 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.467 | (1.143) | 71322 | 11.2271 | 11.227 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 35072 | 10.0507 | 10.051 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 345550 | 11.5760 | 11.576 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 852358 | 9.71788 | 9.718 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 694364 | 9.93025 | 9.930 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 254967 | 11.6096 | 11.610 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 53901 | 10.1879 | 10.188 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.250) | 145159 | 10.8404 | 10.840 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 267820 | 10.9388 | 10.939 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 300056 | 10.2969 | 10.297 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 181324 | 10.9597 | 10.960 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 130982 | 11.0841 | 11.084 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 634695 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 739060 | 10.2346 | 10.235 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1361016 | 10.0321 | 10.032 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 221433 | 10.4567 | 10.457 |
| 56 m,p-xylene | 106 | 7.851 | 7.850 | (1.017) | 1041823 | 20.4820 | 20.482 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 469230 | 10.1690 | 10.169 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 730010 | 10.4683 | 10.468 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 1260747 | 9.69993 | 9.700 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 82767 | 10.6050 | 10.605 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.732 | (0.929) | 112316 | 10.1008 | 10.101 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 267277 | 10.6234 | 10.623 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 35008 | 10.3440 | 10.344 (Q) |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.864 | 8.863 | (0.942) | 21343 | 10.2536 | 10.254 (Q) |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1475719 | 9.89409 | 9.894 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.659 | (0.921) | 247494 | 10.0542 | 10.054 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 954637 | 9.89873 | 9.899 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.789 | (0.935) | 909547 | 9.76891 | 9.769 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 802221 | 9.99239 | 9.992 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 792047 | 9.76751 | 9.768 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 913356 | 10.0150 | 10.015 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 1194110 | 9.94758 | 9.948 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 929306 | 10.1498 | 10.150 |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.347 | (0.994) | 429207 | 10.0562 | 10.056 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 236886 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.416 | 9.415 | (1.001) | 410463 | 10.2008 | 10.201 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.615 | (1.022) | 802582 | 10.2743 | 10.274 |
| § 79 d4-1,2-Dichlorobenzene | 152 | 9.729 | 9.728 | (1.034) | 181056 | 9.81064 | 9.811 |
| 80 1,2-Dichlorobenzene | 146 | 9.734 | 9.734 | (1.035) | 313564 | 9.83097 | 9.831 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.349 | 10.349 | (1.100) | 11027 | 10.5714 | 10.571 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.872 | 10.872 | (1.156) | 156205 | 10.7996 | 10.800 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.850 | 10.850 | (1.154) | 93261 | 10.2063 | 10.206 |
| 84 Naphthalene | 128 | 11.134 | 11.134 | (1.184) | 208959 | 10.4712 | 10.471 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.277 | 11.276 | (1.199) | 111587 | 10.9894 | 10.989 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: lcs0317.d
 Lab Smp Id: LCS0317
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-

Calibration Date: 17-MAR-2010
 Calibration Time: 11:00
 Client Smp ID: LCS0317
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 421758 | -8.67 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 703009 | -5.78 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 634695 | -4.66 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 236886 | 0.52 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 17MAR10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0317 Client Smp ID: LCS0317
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 1 Dichlorodifluorome | 10.000 | 4.590 | 45.90* | 59-129 |
| 2 Chloromethane | 10.000 | 5.851 | 58.51* | 66-123 |
| 3 Vinyl Chloride | 10.000 | 7.016 | 70.16 | 68-121 |
| 4 Bromomethane | 10.000 | 6.876 | 68.76 | 55-148 |
| 5 Chloroethane | 10.000 | 7.576 | 75.76 | 47-155 |
| 6 Trichlorofluoromet | 10.000 | 7.914 | 79.14 | 70-129 |
| 8 Acrolein | 10.000 | 6.034 | 60.34 | 24-170 |
| 9 112Trichloro122Tri | 10.000 | 8.699 | 86.99 | 74-127 |
| 10 Acetone | 10.000 | 9.964 | 99.64 | 70-130 |
| 11 1,1-Dichloroethene | 10.000 | 7.961 | 79.61 | 72-120 |
| 12 Bromoethane | 10.000 | 8.272 | 82.72 | 73-131 |
| 13 Iodomethane | 10.000 | 7.744 | 77.44 | 34-183 |
| 14 Methylene Chloride | 10.000 | 8.137 | 81.37 | 70-124 |
| 15 Acrylonitrile | 10.000 | 11.072 | 110.72 | 71-135 |
| 17 Carbon Disulfide | 10.000 | 7.401 | 74.01 | 66-129 |
| 16 Methyl tert butyl | 20.000 | 16.768 | 83.84 | 78-120 |
| 18 Trans-1,2-Dichloro | 10.000 | 9.237 | 92.37 | 76-120 |
| 20 Vinyl Acetate | 10.000 | 11.289 | 112.89 | 49-134 |
| 21 1,1-Dichloroethane | 10.000 | 9.714 | 97.14 | 75-120 |
| 22 2-Butanone | 10.000 | 10.308 | 103.08 | 78-131 |
| 23 2,2-Dichloropropan | 10.000 | 13.220 | 132.20* | 68-121 |
| 24 Cis-1,2-Dichloroet | 10.000 | 9.654 | 96.54 | 80-120 |
| 26 Chloroform | 10.000 | 9.965 | 99.65 | 78-120 |
| 27 Bromochloromethane | 20.000 | 20.994 | 104.97 | 79-120 |
| 29 1,1,1-Trichloroeth | 10.000 | 9.357 | 93.57 | 76-120 |
| 30 1,1-Dichloropropen | 10.000 | 9.926 | 99.26 | 78-120 |
| 31 Carbon Tetrachlori | 10.000 | 9.772 | 97.72 | 70-126 |
| 33 1,2-Dichloroethane | 10.000 | 10.491 | 104.91 | 78-120 |
| 34 Benzene | 10.000 | 9.917 | 99.17 | 79-120 |
| 36 Trichloroethene | 10.000 | 10.833 | 108.33 | 78-120 |
| 37 1,2-Dichloropropan | 10.000 | 10.334 | 103.34 | 80-120 |
| 38 Bromodichlorometha | 10.000 | 10.263 | 102.63 | 78-120 |
| 39 Dibromomethane | 10.000 | 10.883 | 108.83 | 80-120 |

ME
47%
57%

130%

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 40 2-Chloroethyl Viny | 10.000 | 11.227 | 112.27 | 68-134 |
| 41 4-Methyl-2-Pentano | 10.000 | 10.051 | 100.51 | 73-131 |
| 42 Cis 1,3-dichloropr | 10.000 | 11.576 | 115.76 | 78-120 |
| 44 Toluene | 10.000 | 9.930 | 99.30 | 79-120 |
| 45 Trans 1,3-Dichloro | 10.000 | 11.610 | 116.10 | 75-120 |
| 46 2-Hexanone | 10.000 | 10.188 | 101.88 | 75-130 |
| 47 1,1,2-Trichloroeth | 10.000 | 10.840 | 108.40 | 79-120 |
| 48 1,3-Dichloropropan | 10.000 | 10.939 | 109.39 | 78-120 |
| 49 Tetrachloroethene | 10.000 | 10.297 | 102.97 | 72-120 |
| 50 Chlorodibromometha | 10.000 | 10.960 | 109.60 | 78-120 |
| 51 1,2-Dibromoethane | 10.000 | 11.084 | 110.84 | 75-120 |
| 53 Chlorobenzene | 10.000 | 10.235 | 102.35 | 79-120 |
| 55 1,1,1,2-Tetrachlor | 10.000 | 10.457 | 104.57 | 75-120 |
| 54 Ethyl Benzene | 10.000 | 10.032 | 100.32 | 78-120 |
| 56 m,p-xylene | 20.000 | 20.482 | 102.41 | 65-129 |
| 58 o-Xylene | 10.000 | 10.169 | 101.69 | 76-120 |
| 59 Styrene | 10.000 | 10.468 | 104.68 | 74-121 |
| 60 Isopropyl Benzene | 10.000 | 9.700 | 97.00 | 74-120 |
| 61 Bromoform | 10.000 | 10.605 | 106.05 | 71-120 |
| 62 1,1,2,2-Tetrachlor | 10.000 | 10.101 | 101.01 | 70-120 |
| 64 1,2,3-Trichloropro | 10.000 | 10.344 | 103.44 | 73-120 |
| 65 Trans-1,4-Dichloro | 10.000 | 10.254 | 102.54 | 65-135 |
| 66 N-Propyl Benzene | 10.000 | 9.894 | 98.94 | 76-121 |
| 67 Bromobenzene | 10.000 | 10.054 | 100.54 | 72-120 |
| 68 1,3,5-Trimethyl Be | 10.000 | 9.899 | 98.99 | 74-123 |
| 69 2-Chloro Toluene | 10.000 | 9.769 | 97.69 | 74-120 |
| 70 4-Chloro Toluene | 10.000 | 9.992 | 99.92 | 75-120 |
| 71 T-Butyl Benzene | 10.000 | 9.768 | 97.68 | 73-121 |
| 72 1,2,4-Trimethylben | 10.000 | 10.015 | 100.15 | 73-124 |
| 73 S-Butyl Benzene | 10.000 | 9.948 | 99.48 | 75-123 |
| 74 4-Isopropyl Toluen | 10.000 | 10.150 | 101.50 | 71-125 |
| 75 1,3-Dichlorobenzen | 10.000 | 10.056 | 100.56 | 72-120 |
| 77 1,4-Dichlorobenzen | 10.000 | 10.201 | 102.01 | 76-120 |
| 78 N-Butyl Benzene | 10.000 | 10.274 | 102.74 | 72-124 |
| 80 1,2-Dichlorobenzen | 10.000 | 9.831 | 98.31 | 75-120 |
| 81 1,2-Dibromo 3-Chlo | 10.000 | 10.571 | 105.71 | 67-121 |
| 82 1,2,4-Trichloroben | 10.000 | 10.800 | 108.00 | 71-120 |
| 83 Hexachloro 1,3-But | 10.000 | 10.206 | 102.06 | 67-124 |
| 84 Naphthalene | 10.000 | 10.471 | 104.71 | 71-125 |
| 85 1,2,3-Trichloroben | 10.000 | 10.989 | 109.89 | 61-134 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.179 | 101.79 | 60-130 |

| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.098 | 110.98 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 9.718 | 97.18 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 10.623 | 106.23 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 9.811 | 98.11 | 80-120 |

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Date : 17-MAR-2010 11:25

Client ID: LCS0317

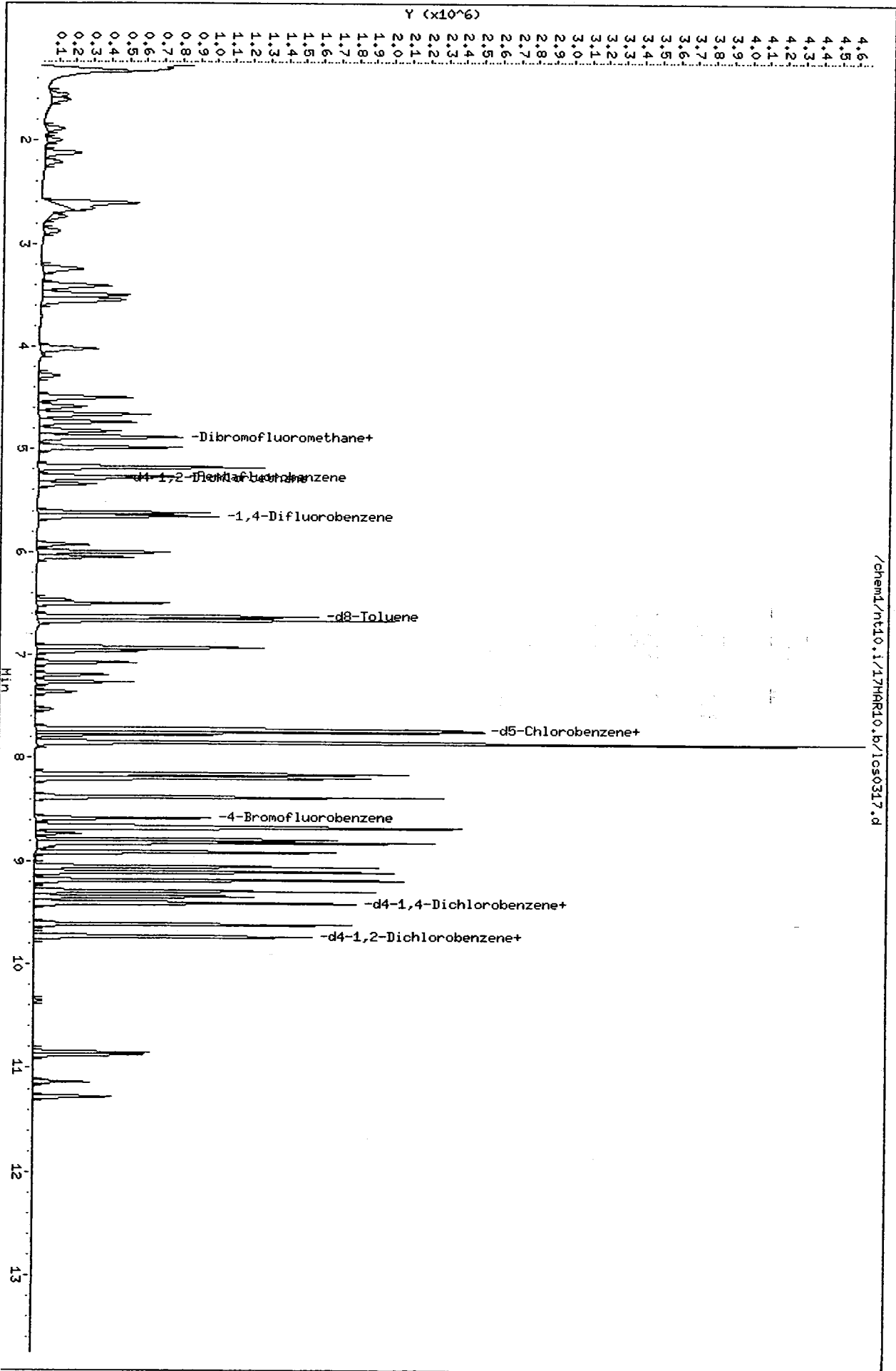
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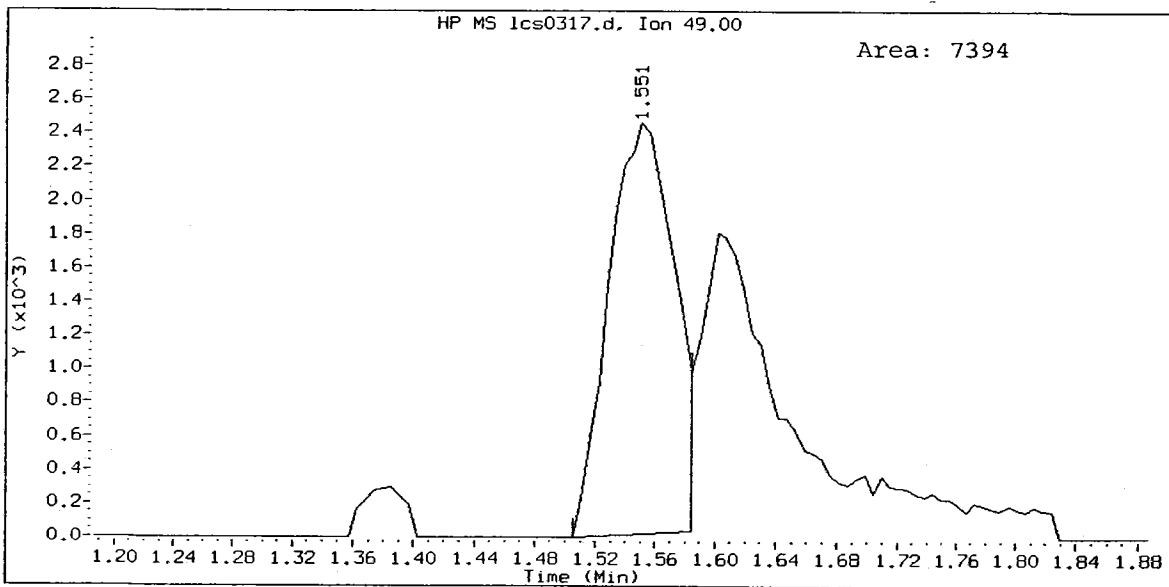
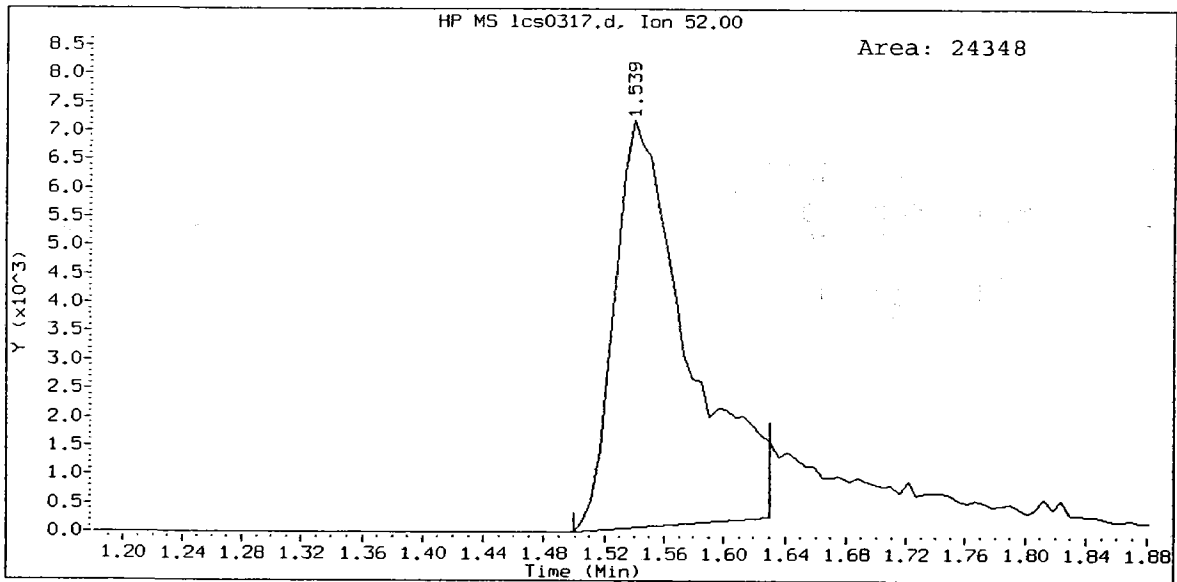
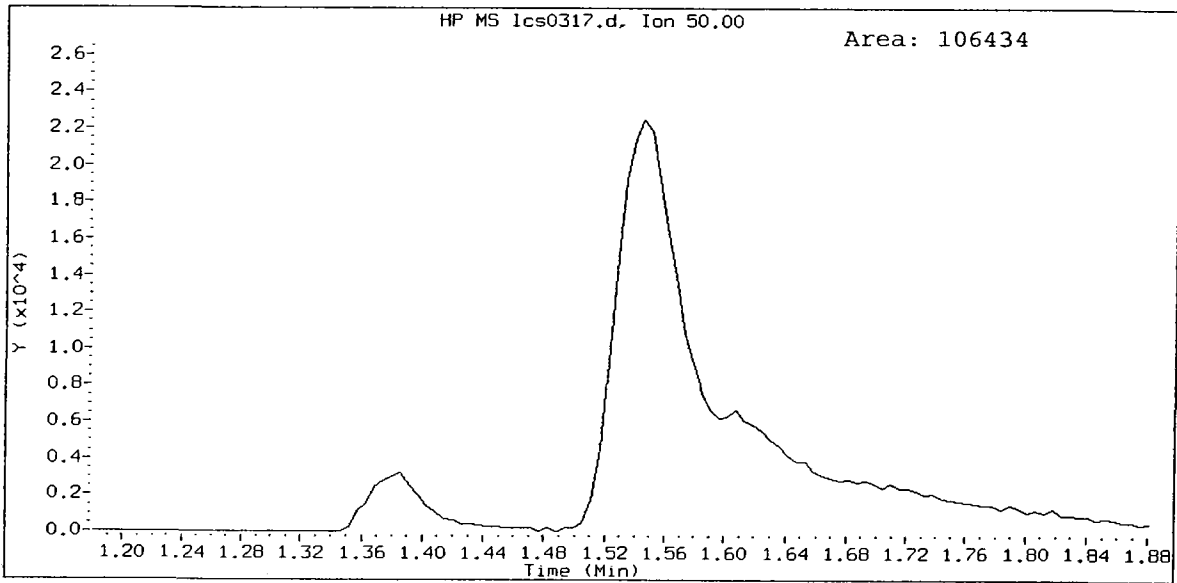
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Instrument: nt10.i

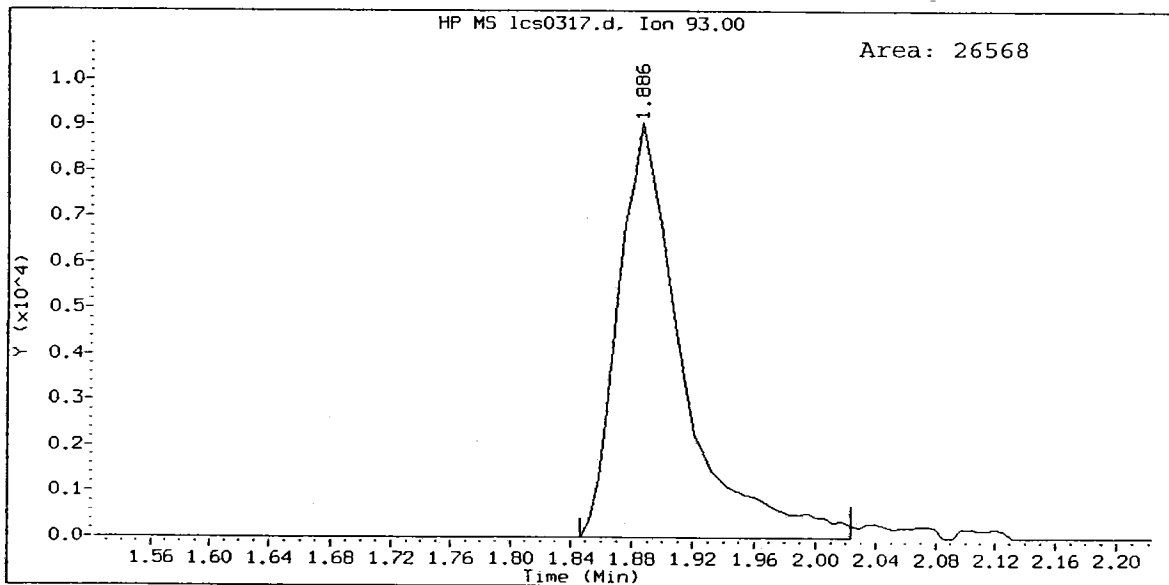
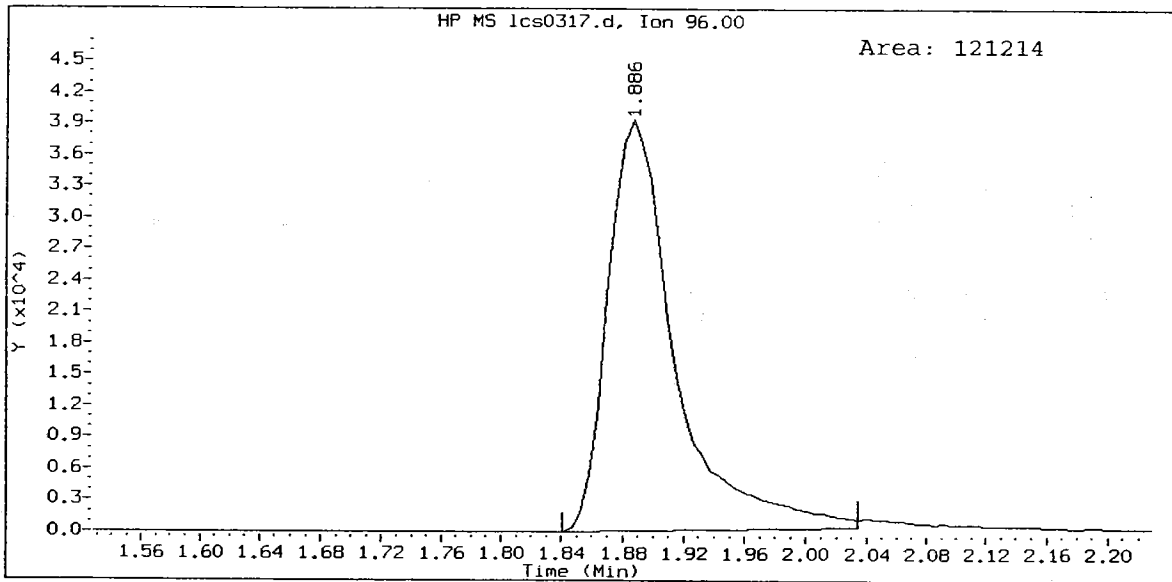
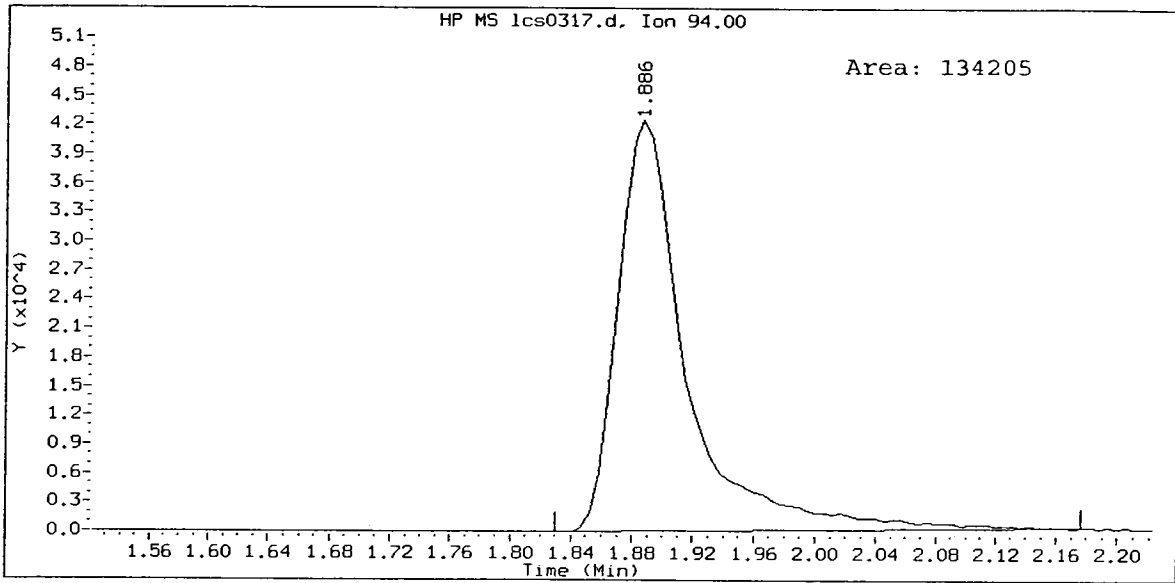
Operator: ar

Column diameter: 0.18



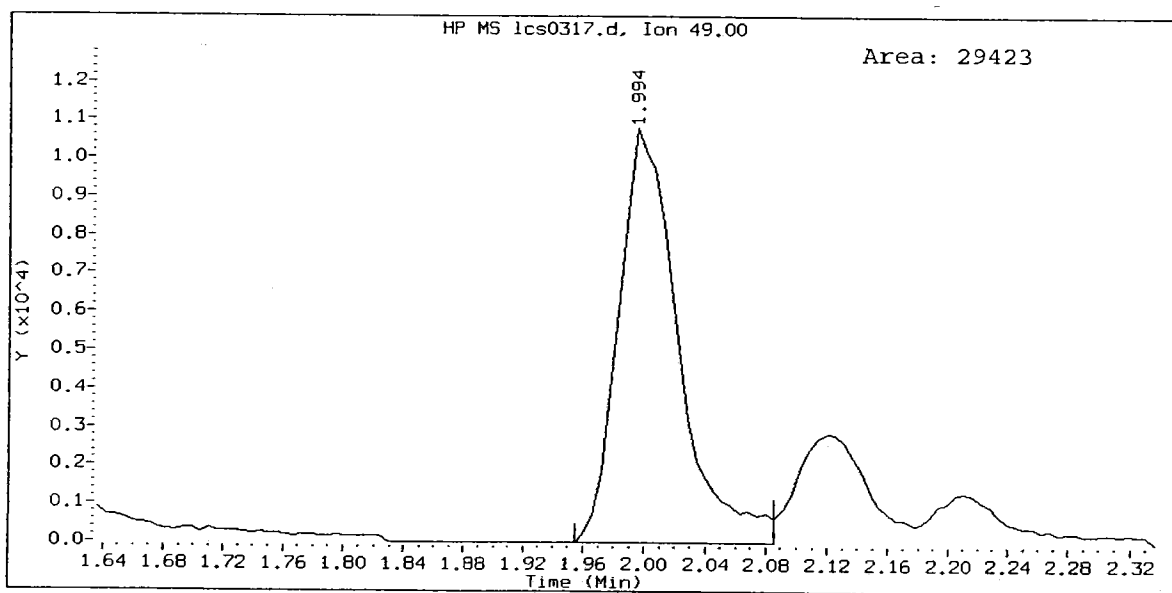
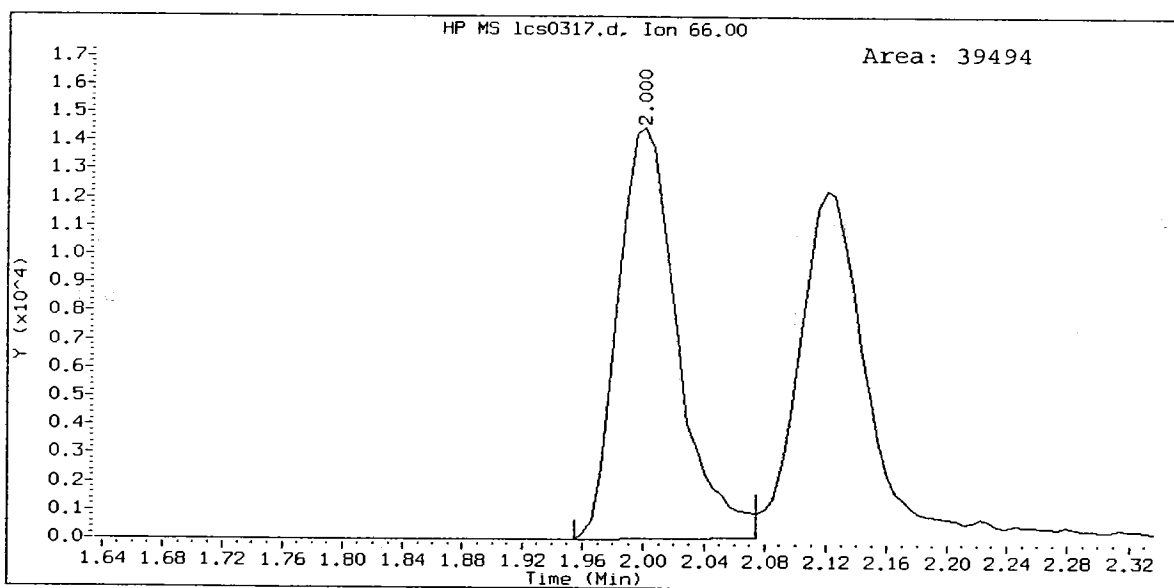
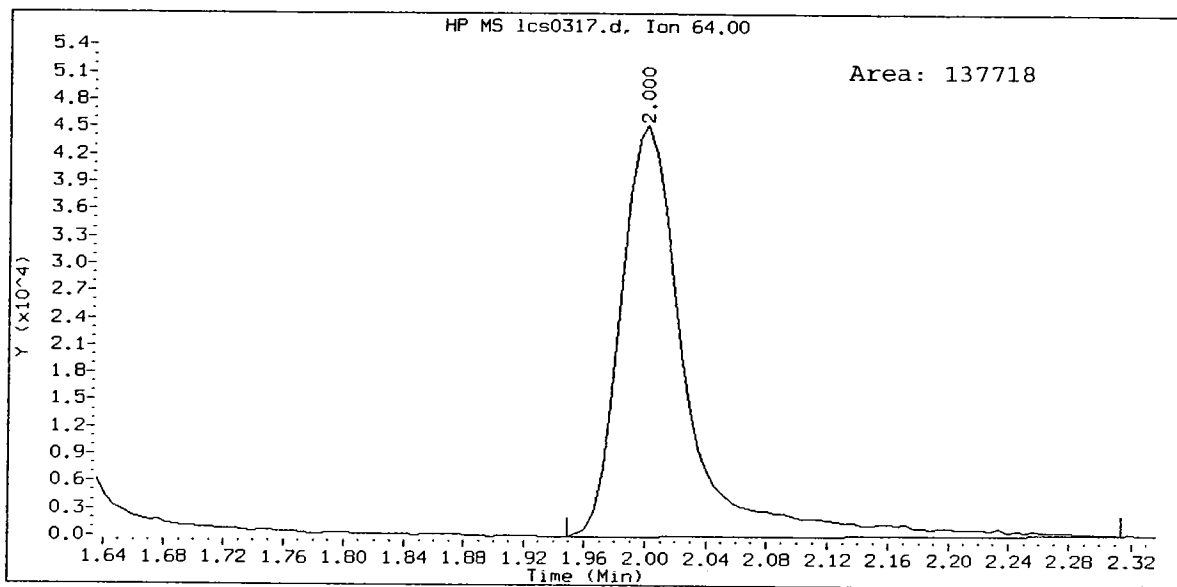


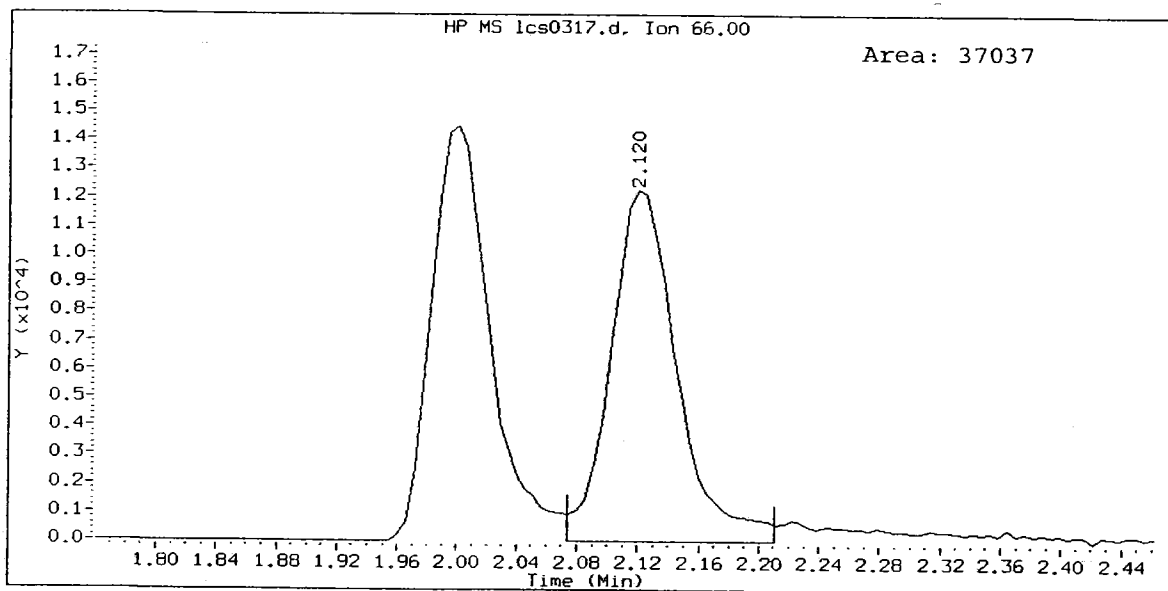
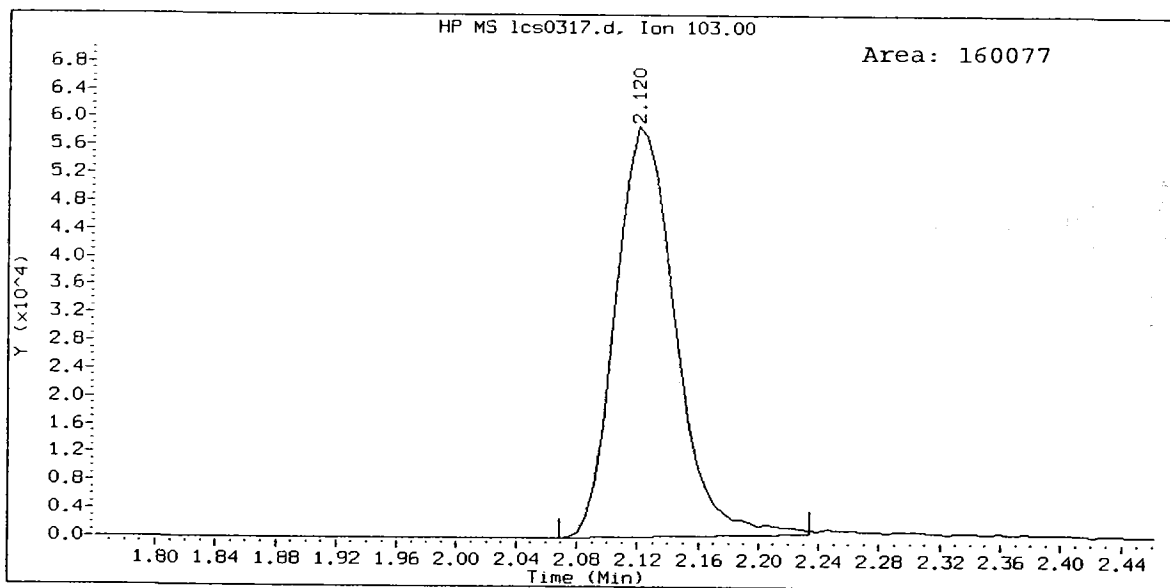
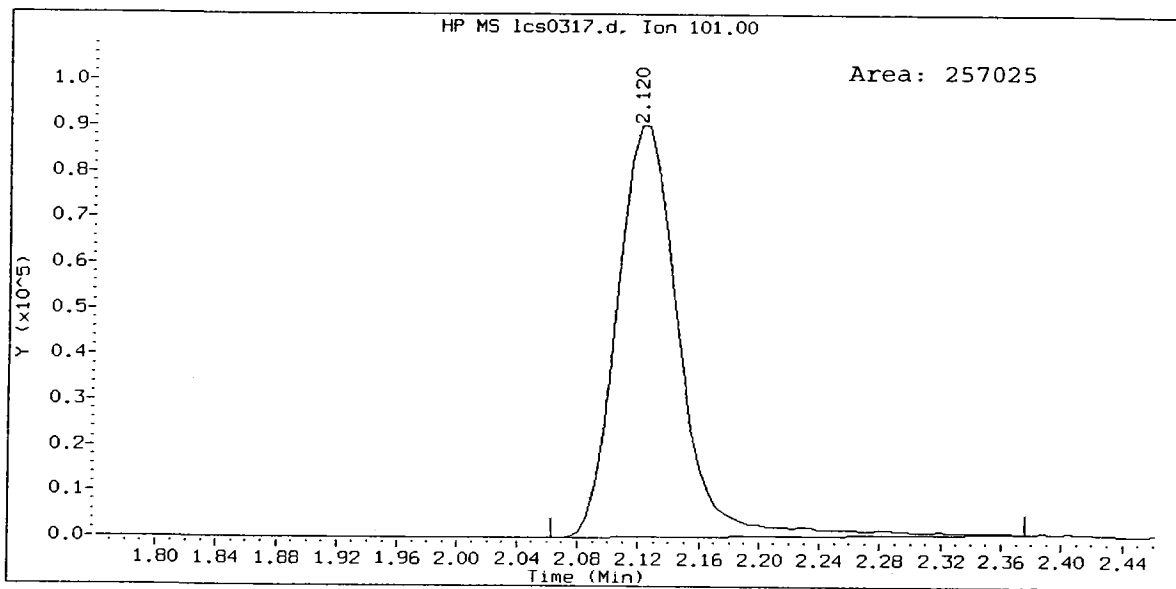
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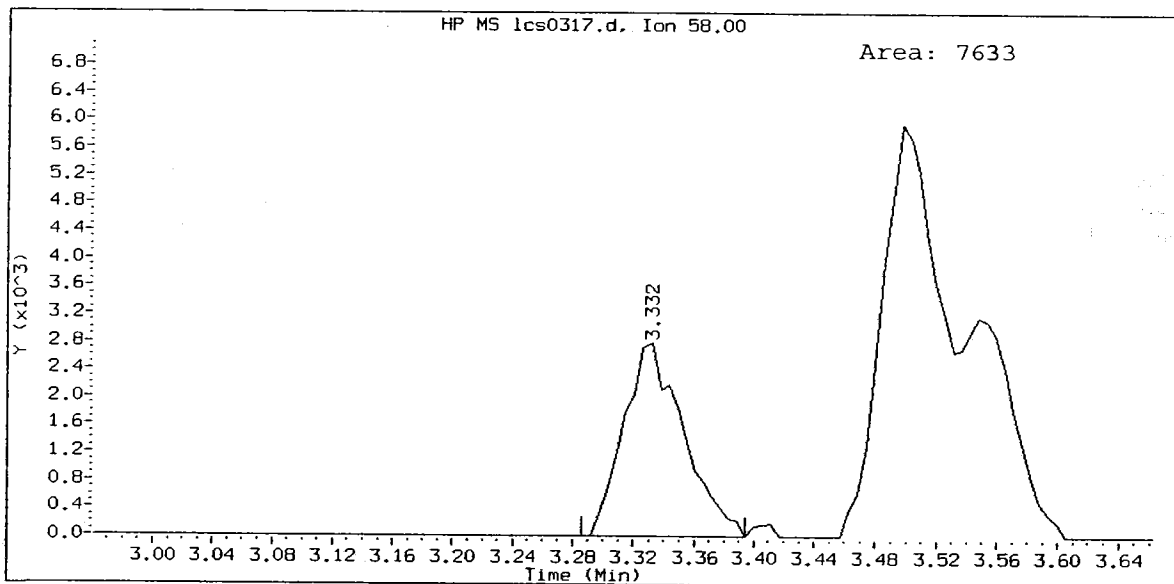
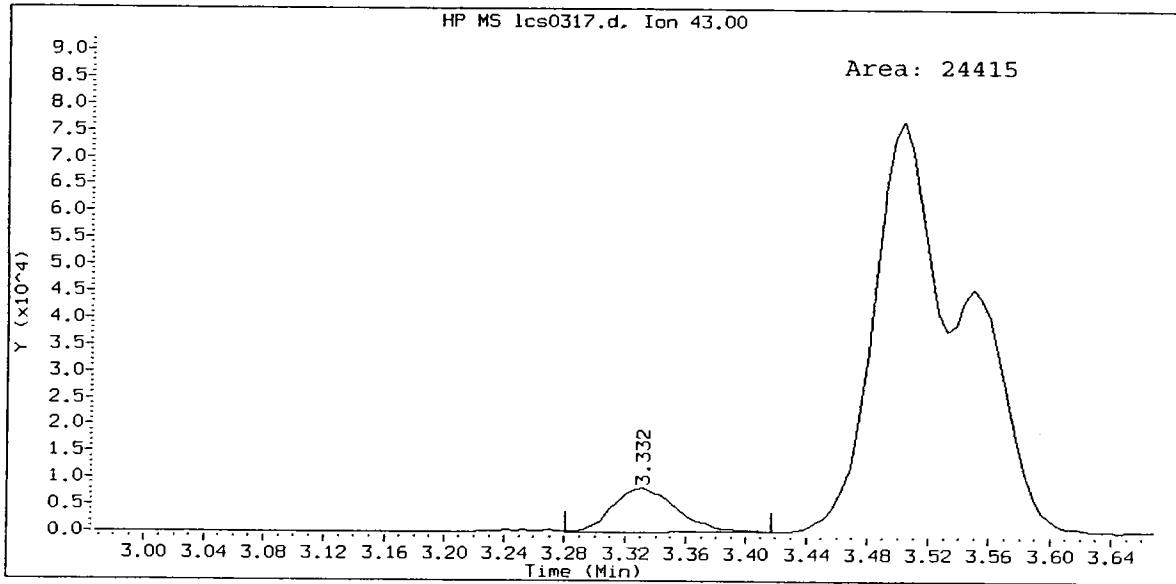


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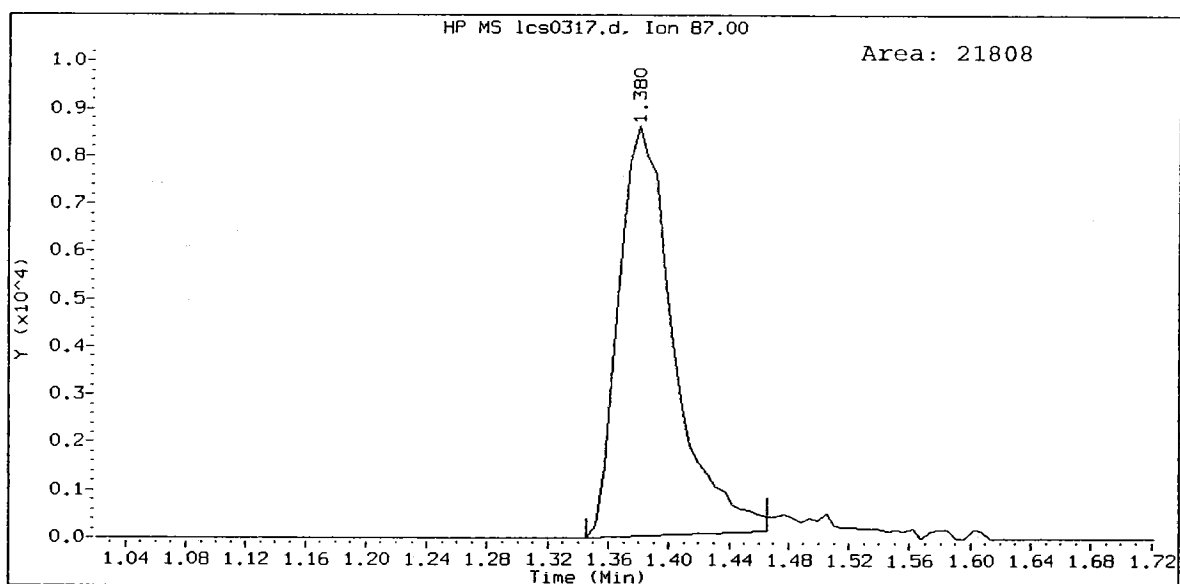
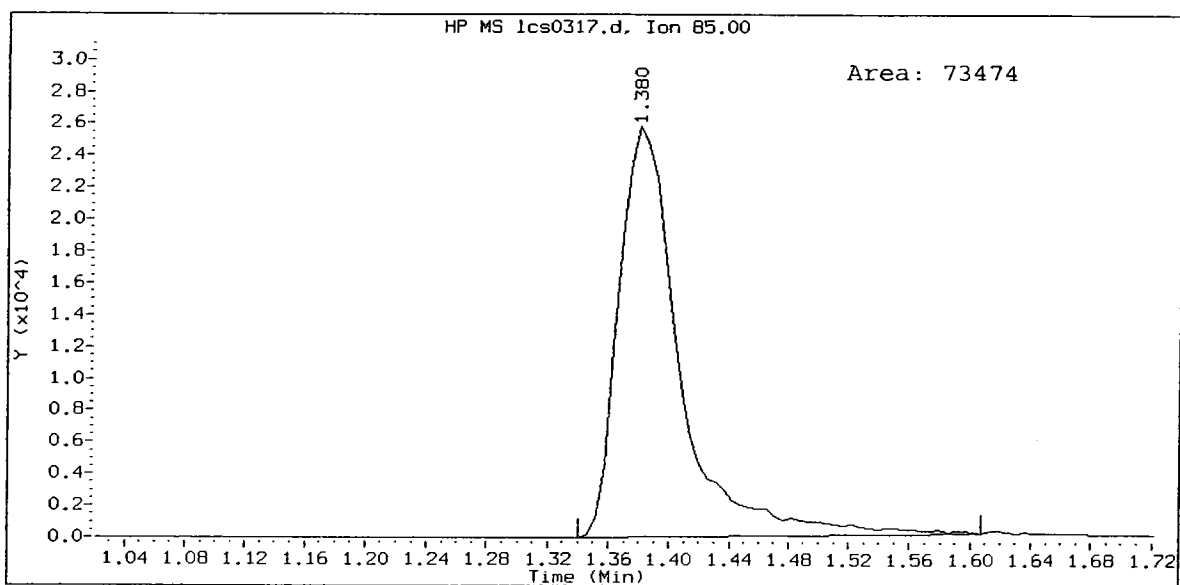
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Chloroethane Amount: 7.58







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Dichlorodifluoromethane Amount: 4.59



Analytical Resources, Inc.

AR 3/17/2010

8260C

Data file : /chem1/nt10.i/17MAR10.b/lcs0317a.d
 Lab Smp Id: LCSD0317 Client Smp ID: LCS0317
 Inj Date : 17-MAR-2010 11:50
 Operator : ar Inst ID: nt10.i
 Smp Info : LCSD0317,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/17MAR10.b/82600304L.m
 Meth Date : 17-Mar-2010 13:35 aron Quant Type: ISTD
 Cal Date : 04-MAR-2010 20:50 Cal File: 6000304.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 1 Dichlorodifluoromethane | 85 | 1.380 | 1.374 | (0.262) | 68626 | 4.47370 | 4.474 (RM) |
| 2 Chloromethane | 50 | 1.539 | 1.533 | (0.292) | 114937 | 6.59298 | 6.593 (RM) |
| 3 Vinyl Chloride | 62 | 1.602 | 1.596 | (0.304) | 167009 | 7.50110 | 7.501 (M) |
| 4 Bromomethane | 94 | 1.881 | 1.875 | (0.357) | 141021 | 7.53903 | 7.539 (M) |
| 5 Chloroethane | 64 | 1.994 | 1.989 | (0.378) | 143358 | 8.22841 | 8.228 (M) |
| 6 Trichlorofluoromethane | 101 | 2.120 | 2.114 | (0.402) | 259877 | 8.34916 | 8.349 (M) |
| 8 Acrolein | 56 | 2.990 | 2.979 | (0.567) | 3834 | 7.36416 | 7.364 |
| 9 112Trichloro122Trifluoroethane | 101 | 2.660 | 2.654 | (0.505) | 168985 | 8.95271 | 8.953 |
| 10 Acetone | 43 | 3.326 | 3.320 | (0.631) | 24693 | 10.5153 | 10.515 |
| 11 1,1-Dichloroethene | 96 | 2.603 | 2.598 | (0.494) | 197645 | 8.50619 | 8.506 |
| 12 Bromoethane | 108 | 2.877 | 2.871 | (0.546) | 122609 | 8.96429 | 8.964 |
| 13 Iodomethane | 142 | 2.740 | 2.734 | (0.520) | 237231 | 8.65806 | 8.658 |
| 14 Methylene Chloride | 84 | 3.246 | 3.241 | (0.616) | 188299 | 9.03024 | 9.030 |
| 15 Acrylonitrile | 53 | 4.094 | 4.089 | (0.777) | 26746 | 11.6873 | 11.687 |
| 16 Methyl tert butyl ether | 73 | 3.548 | 3.548 | (0.673) | 610878 | 18.8102 | 18.810 (M) |
| 17 Carbon Disulfide | 76 | 2.609 | 2.603 | (0.495) | 574271 | 8.13822 | 8.138 |

| Compounds | QUANT SIG | | | | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|-------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 18 Trans-1,2-Dichloroethene | 96 | 3.412 | 3.406 | (0.647) | 223676 | 9.71673 | 9.717 |
| 20 Vinyl Acetate | 43 | 4.282 | 4.282 | (0.812) | 161677 | 11.1317 | 11.132 |
| 21 1,1-Dichloroethane | 63 | 4.020 | 4.015 | (0.763) | 373950 | 10.0066 | 10.007 |
| 22 2-Butanone | 72 | 4.988 | 4.982 | (0.946) | 25134 | 10.5469 | 10.547 |
| 23 2,2-Dichloropropane | 77 | 4.584 | 4.584 | (0.869) | 159324 | 13.2186 | 13.219(R) |
| 24 Cis-1,2-Dichloroethene | 96 | 4.499 | 4.498 | (0.853) | 242130 | 9.92657 | 9.927 |
| * 25 Pentafluorobenzene | 168 | 5.272 | 5.267 | (1.000) | 404209 | 10.0000 | |
| 26 Chloroform | 83 | 4.738 | 4.732 | (0.899) | 408739 | 10.4020 | 10.402 |
| 27 Bromochloromethane | 128 | 4.664 | 4.658 | (0.884) | 178105 | 21.5678 | 21.568 |
| \$ 28 Dibromofluoromethane | 111 | 4.880 | 4.880 | (0.926) | 178234 | 10.4395 | 10.439 |
| 29 1,1,1-Trichloroethane | 97 | 4.886 | 4.885 | (0.927) | 308912 | 9.89547 | 9.895 |
| 30 1,1-Dichloropropene | 75 | 4.982 | 4.982 | (0.880) | 349710 | 9.88186 | 9.882 |
| 31 Carbon Tetrachloride | 117 | 4.823 | 4.823 | (0.852) | 262608 | 10.1157 | 10.116 |
| \$ 32 d4-1,2-Dichloroethane | 65 | 5.290 | 5.289 | (1.003) | 168627 | 11.1345 | 11.135 |
| 33 1,2-Dichloroethane | 62 | 5.341 | 5.341 | (0.944) | 223473 | 10.5381 | 10.538 |
| 34 Benzene | 78 | 5.181 | 5.176 | (0.916) | 990537 | 10.0705 | 10.070 |
| * 35 1,4-Difluorobenzene | 114 | 5.659 | 5.654 | (1.000) | 668282 | 10.0000 | |
| 36 Trichloroethene | 95 | 5.620 | 5.620 | (0.993) | 281736 | 10.8288 | 10.829 |
| 37 1,2-Dichloropropane | 63 | 6.007 | 6.001 | (1.061) | 217075 | 10.3070 | 10.307 |
| 38 Bromodichloromethane | 83 | 6.052 | 6.052 | (1.069) | 285542 | 10.5237 | 10.524 |
| 39 Dibromomethane | 93 | 5.927 | 5.927 | (1.047) | 93703 | 11.0165 | 11.016 |
| 40 2-Chloroethyl Vinyl Ether | 63 | 6.468 | 6.467 | (1.143) | 66646 | 11.0362 | 11.036 |
| 41 4-Methyl-2-Pentanone | 58 | 6.946 | 6.946 | (1.227) | 34248 | 10.3246 | 10.325 |
| 42 Cis 1,3-dichloropropene | 75 | 6.502 | 6.502 | (1.149) | 322672 | 11.3713 | 11.371 |
| \$ 43 d8-Toluene | 98 | 6.633 | 6.633 | (1.172) | 835437 | 10.0199 | 10.020 |
| 44 Toluene | 92 | 6.667 | 6.667 | (1.178) | 672571 | 10.1184 | 10.118 |
| 45 Trans 1,3-Dichloropropene | 75 | 6.963 | 6.963 | (1.230) | 245179 | 11.7440 | 11.744 |
| 46 2-Hexanone | 43 | 7.526 | 7.526 | (0.975) | 55707 | 10.7783 | 10.778 |
| 47 1,1,2-Trichloroethane | 97 | 7.077 | 7.076 | (1.250) | 138542 | 10.8839 | 10.884 |
| 48 1,3-Dichloropropane | 76 | 7.264 | 7.264 | (0.941) | 257365 | 10.7604 | 10.760 |
| 49 Tetrachloroethene | 166 | 6.929 | 6.928 | (0.898) | 289782 | 10.1796 | 10.180 |
| 50 Chlorodibromomethane | 129 | 7.196 | 7.196 | (0.932) | 174214 | 10.7791 | 10.779 |
| 51 1,2-Dibromoethane | 107 | 7.361 | 7.361 | (1.301) | 125329 | 11.1569 | 11.157 |
| * 52 d5-Chlorobenzene | 117 | 7.720 | 7.720 | (1.000) | 620029 | 10.0000 | |
| 53 Chlorobenzene | 112 | 7.731 | 7.731 | (1.001) | 719700 | 10.2022 | 10.202 |
| 54 Ethyl Benzene | 91 | 7.748 | 7.748 | (1.004) | 1337176 | 10.0895 | 10.090 |
| 55 1,1,1,2-Tetrachloroethane | 131 | 7.777 | 7.776 | (1.007) | 222997 | 10.7796 | 10.780 |
| 56 m,p-xylene | 106 | 7.851 | 7.850 | (1.017) | 1032371 | 20.7763 | 20.776 |
| 58 o-Xylene | 106 | 8.158 | 8.158 | (1.057) | 472027 | 10.4716 | 10.472 |
| 59 Styrene | 104 | 8.198 | 8.198 | (1.062) | 726472 | 10.6639 | 10.664 |
| 60 Isopropyl Benzene | 105 | 8.380 | 8.380 | (0.891) | 1296979 | 9.07445 | 9.074 |
| 61 Bromoform | 173 | 8.215 | 8.215 | (0.874) | 83483 | 9.72742 | 9.727 |
| 62 1,1,2,2-Tetrachloroethane | 83 | 8.733 | 8.732 | (0.929) | 121328 | 9.92253 | 9.923 |
| \$ 63 4-Bromofluorobenzene | 95 | 8.585 | 8.585 | (1.112) | 271842 | 11.0604 | 11.060 |
| 64 1,2,3-Trichloropropane | 110 | 8.835 | 8.835 | (0.939) | 37178 | 9.98970 | 9.990(Q) |
| 65 Trans-1,4-Dichloro 2-Butene | 53 | 8.864 | 8.863 | (0.942) | 21705 | 9.50718 | 9.507(Q) |
| 66 N-Propyl Benzene | 91 | 8.681 | 8.681 | (0.923) | 1526372 | 9.30635 | 9.306 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/L) | FINAL (ug/L) |
| 67 Bromobenzene | 156 | 8.664 | 8.659 | (0.921) | 251553 | 9.29309 | 9.293 |
| 68 1,3,5-Trimethyl Benzene | 105 | 8.824 | 8.824 | (0.938) | 1019220 | 9.61072 | 9.611 |
| 69 2-Chloro Toluene | 91 | 8.795 | 8.789 | (0.935) | 943133 | 9.21171 | 9.212 |
| 70 4-Chloro Toluene | 91 | 8.915 | 8.915 | (0.948) | 831366 | 9.41704 | 9.417 |
| 71 T-Butyl Benzene | 119 | 9.057 | 9.057 | (0.963) | 847414 | 9.50332 | 9.503 |
| 72 1,2,4-Trimethylbenzene | 105 | 9.108 | 9.108 | (0.969) | 985423 | 9.82608 | 9.826 |
| 73 S-Butyl Benzene | 105 | 9.188 | 9.188 | (0.977) | 1304429 | 9.88190 | 9.882 |
| 74 4-Isopropyl Toluene | 119 | 9.296 | 9.296 | (0.988) | 1031423 | 10.2443 | 10.244 |
| 75 1,3-Dichlorobenzene | 146 | 9.347 | 9.347 | (0.994) | 466497 | 9.93949 | 9.939 |
| * 76 d4-1,4-Dichlorobenzene | 152 | 9.404 | 9.404 | (1.000) | 260491 | 10.0000 | |
| 77 1,4-Dichlorobenzene | 146 | 9.416 | 9.415 | (1.001) | 446847 | 10.0987 | 10.099 |
| 78 N-Butyl Benzene | 91 | 9.615 | 9.615 | (1.022) | 908661 | 10.5782 | 10.578 |
| \$ 79 d4-1,2-Dichlorobenzene | 152 | 9.729 | 9.728 | (1.034) | 203612 | 10.0331 | 10.033 |
| 80 1,2-Dichlorobenzene | 146 | 9.734 | 9.734 | (1.035) | 350757 | 10.0005 | 10.001 |
| 81 1,2-Dibromo 3-Chloropropane | 75 | 10.355 | 10.349 | (1.101) | 10741 | 9.36410 | 9.364 |
| 82 1,2,4-Trichlorobenzene | 180 | 10.878 | 10.872 | (1.157) | 150652 | 9.47186 | 9.472 |
| 83 Hexachloro 1,3-Butadiene | 225 | 10.850 | 10.850 | (1.154) | 92021 | 9.15802 | 9.158 |
| 84 Naphthalene | 128 | 11.134 | 11.134 | (1.184) | 205344 | 9.35761 | 9.358 |
| 85 1,2,3-Trichlorobenzene | 180 | 11.277 | 11.276 | (1.199) | 109447 | 9.80187 | 9.802 |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: lcs0317a.d
Lab Smp Id: LCSD0317
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
Misc Info: 10-

Calibration Date: 17-MAR-2010
Calibration Time: 11:00
Client Smp ID: LCS0317
Level: LOW
Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 461804 | 230902 | 923608 | 404209 | -12.47 |
| 35 1,4-Difluorobenze | 746135 | 373068 | 1492270 | 668282 | -10.43 |
| 52 d5-Chlorobenzene | 665692 | 332846 | 1331384 | 620029 | -6.86 |
| 76 d4-1,4-Dichlorobe | 235664 | 117832 | 471328 | 260491 | 10.53 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 25 Pentafluorobenzen | 5.27 | 4.77 | 5.77 | 5.27 | 0.00 |
| 35 1,4-Difluorobenze | 5.65 | 5.15 | 6.15 | 5.66 | 0.10 |
| 52 d5-Chlorobenzene | 7.72 | 7.22 | 8.22 | 7.72 | 0.00 |
| 76 d4-1,4-Dichlorobe | 9.40 | 8.90 | 9.90 | 9.40 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 17MAR10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0317 Client Smp ID: LCS0317
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/17MAR10.b/82600304L.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 1 Dichlorodifluorome | 10.000 | 4.474 | 44.74* | 59-129 |
| 2 Chloromethane | 10.000 | 6.593 | 65.93* | 66-123 |
| 3 Vinyl Chloride | 10.000 | 7.501 | 75.01 | 68-121 |
| 4 Bromomethane | 10.000 | 7.539 | 75.39 | 55-148 |
| 5 Chloroethane | 10.000 | 8.228 | 82.28 | 47-155 |
| 6 Trichlorofluoromet | 10.000 | 8.349 | 83.49 | 70-129 |
| 8 Acrolein | 10.000 | 7.364 | 73.64 | 24-170 |
| 9 112Trichloro122Tri | 10.000 | 8.953 | 89.53 | 74-127 |
| 10 Acetone | 10.000 | 10.515 | 105.15 | 70-130 |
| 11 1,1-Dichloroethene | 10.000 | 8.506 | 85.06 | 72-120 |
| 12 Bromoethane | 10.000 | 8.964 | 89.64 | 73-131 |
| 13 Iodomethane | 10.000 | 8.658 | 86.58 | 34-183 |
| 14 Methylene Chloride | 10.000 | 9.030 | 90.30 | 70-124 |
| 15 Acrylonitrile | 10.000 | 11.687 | 116.87 | 71-135 |
| 17 Carbon Disulfide | 10.000 | 8.138 | 81.38 | 66-129 |
| 16 Methyl tert butyl | 20.000 | 18.810 | 94.05 | 78-120 |
| 18 Trans-1,2-Dichloro | 10.000 | 9.717 | 97.17 | 76-120 |
| 20 Vinyl Acetate | 10.000 | 11.132 | 111.32 | 49-134 |
| 21 1,1-Dichloroethane | 10.000 | 10.007 | 100.07 | 75-120 |
| 22 2-Butanone | 10.000 | 10.547 | 105.47 | 78-131 |
| 23 2,2-Dichloropropan | 10.000 | 13.219 | 132.19* | 68-121 |
| 24 Cis-1,2-Dichloroet | 10.000 | 9.927 | 99.27 | 80-120 |
| 26 Chloroform | 10.000 | 10.402 | 104.02 | 78-120 |
| 27 Bromochloromethane | 20.000 | 21.568 | 107.84 | 79-120 |
| 29 1,1,1-Trichloroeth | 10.000 | 9.895 | 98.95 | 76-120 |
| 30 1,1-Dichloropropen | 10.000 | 9.882 | 98.82 | 78-120 |
| 31 Carbon Tetrachlori | 10.000 | 10.116 | 101.16 | 70-126 |
| 33 1,2-Dichloroethane | 10.000 | 10.538 | 105.38 | 78-120 |
| 34 Benzene | 10.000 | 10.070 | 100.70 | 79-120 |
| 36 Trichloroethene | 10.000 | 10.829 | 108.29 | 78-120 |
| 37 1,2-Dichloropropan | 10.000 | 10.307 | 103.07 | 80-120 |
| 38 Bromodichlorometha | 10.000 | 10.524 | 105.24 | 78-120 |
| 39 Dibromomethane | 10.000 | 11.016 | 110.16 | 80-120 |

ME
47%
57%

130%

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 40 2-Chloroethyl Viny | 10.000 | 11.036 | 110.36 | 68-134 |
| 41 4-Methyl-2-Pentano | 10.000 | 10.325 | 103.25 | 73-131 |
| 42 Cis 1,3-dichloropr | 10.000 | 11.371 | 113.71 | 78-120 |
| 44 Toluene | 10.000 | 10.118 | 101.18 | 79-120 |
| 45 Trans 1,3-Dichloro | 10.000 | 11.744 | 117.44 | 75-120 |
| 46 2-Hexanone | 10.000 | 10.778 | 107.78 | 75-130 |
| 47 1,1,2-Trichloroeth | 10.000 | 10.884 | 108.84 | 79-120 |
| 48 1,3-Dichloropropan | 10.000 | 10.760 | 107.60 | 78-120 |
| 49 Tetrachloroethene | 10.000 | 10.180 | 101.80 | 72-120 |
| 50 Chlorodibromometha | 10.000 | 10.779 | 107.79 | 78-120 |
| 51 1,2-Dibromoethane | 10.000 | 11.157 | 111.57 | 75-120 |
| 53 Chlorobenzene | 10.000 | 10.202 | 102.02 | 79-120 |
| 55 1,1,1,2-Tetrachlor | 10.000 | 10.780 | 107.80 | 75-120 |
| 54 Ethyl Benzene | 10.000 | 10.090 | 100.90 | 78-120 |
| 56 m,p-xylene | 20.000 | 20.776 | 103.88 | 65-129 |
| 58 o-Xylene | 10.000 | 10.472 | 104.72 | 76-120 |
| 59 Styrene | 10.000 | 10.664 | 106.64 | 74-121 |
| 60 Isopropyl Benzene | 10.000 | 9.074 | 90.74 | 74-120 |
| 61 Bromoform | 10.000 | 9.727 | 97.27 | 71-120 |
| 62 1,1,2,2-Tetrachlor | 10.000 | 9.923 | 99.23 | 70-120 |
| 64 1,2,3-Trichloropro | 10.000 | 9.990 | 99.90 | 73-120 |
| 65 Trans-1,4-Dichloro | 10.000 | 9.507 | 95.07 | 65-135 |
| 66 N-Propyl Benzene | 10.000 | 9.306 | 93.06 | 76-121 |
| 67 Bromobenzene | 10.000 | 9.293 | 92.93 | 72-120 |
| 68 1,3,5-Trimethyl Be | 10.000 | 9.611 | 96.11 | 74-123 |
| 69 2-Chloro Toluene | 10.000 | 9.212 | 92.12 | 74-120 |
| 70 4-Chloro Toluene | 10.000 | 9.417 | 94.17 | 75-120 |
| 71 T-Butyl Benzene | 10.000 | 9.503 | 95.03 | 73-121 |
| 72 1,2,4-Trimethylben | 10.000 | 9.826 | 98.26 | 73-124 |
| 73 S-Butyl Benzene | 10.000 | 9.882 | 98.82 | 75-123 |
| 74 4-Isopropyl Toluen | 10.000 | 10.244 | 102.44 | 71-125 |
| 75 1,3-Dichlorobenzen | 10.000 | 9.939 | 99.39 | 72-120 |
| 77 1,4-Dichlorobenzen | 10.000 | 10.099 | 100.99 | 76-120 |
| 78 N-Butyl Benzene | 10.000 | 10.578 | 105.78 | 72-124 |
| 80 1,2-Dichlorobenzen | 10.000 | 10.001 | 100.01 | 75-120 |
| 81 1,2-Dibromo 3-Chlo | 10.000 | 9.364 | 93.64 | 67-121 |
| 82 1,2,4-Trichloroben | 10.000 | 9.472 | 94.72 | 71-120 |
| 83 Hexachloro 1,3-But | 10.000 | 9.158 | 91.58 | 67-124 |
| 84 Naphthalene | 10.000 | 9.358 | 93.58 | 71-125 |
| 85 1,2,3-Trichloroben | 10.000 | 9.802 | 98.02 | 61-134 |

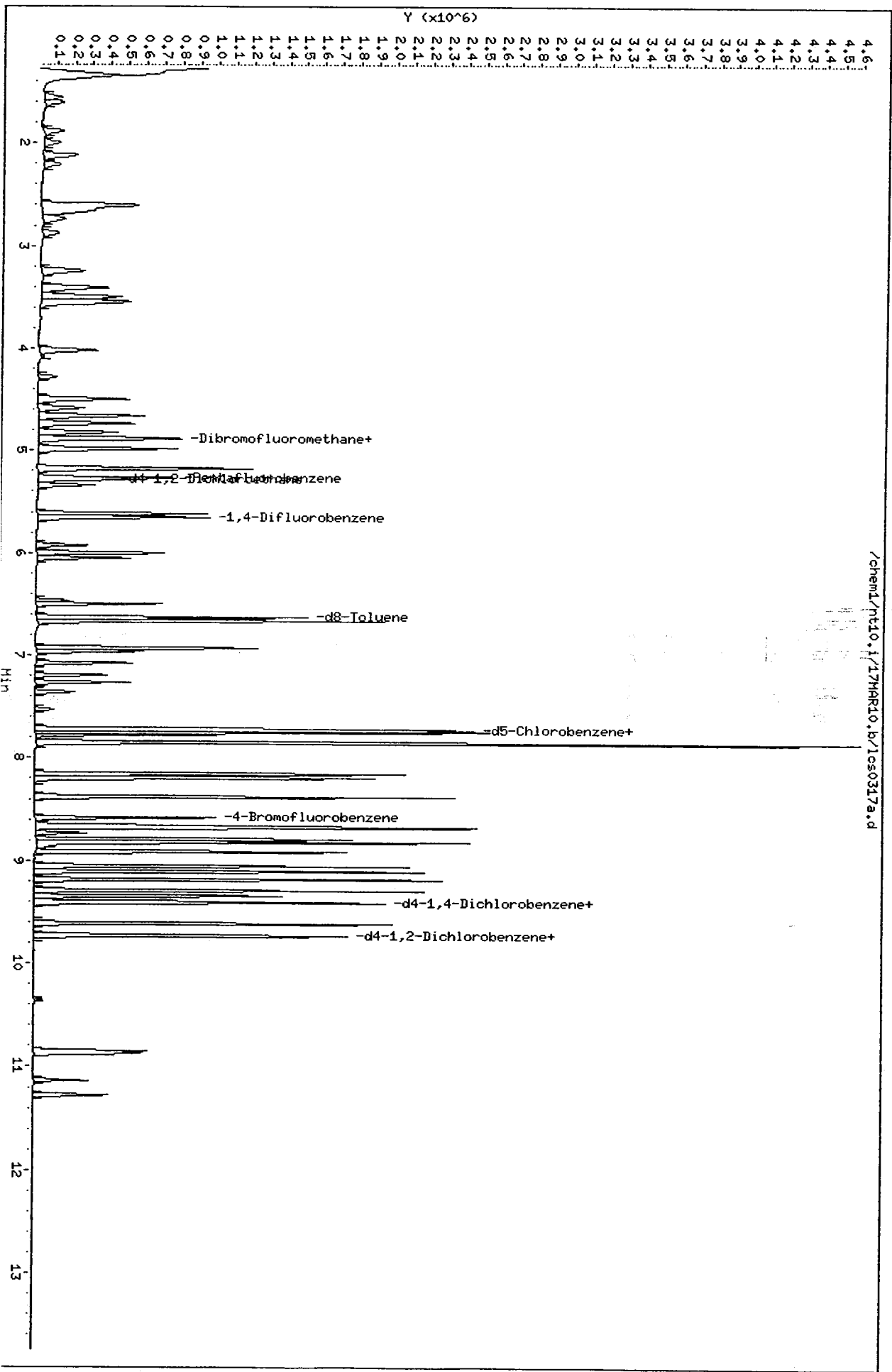
| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 28 Dibromofluorometha | 10.000 | 10.439 | 104.39 | 60-130 |

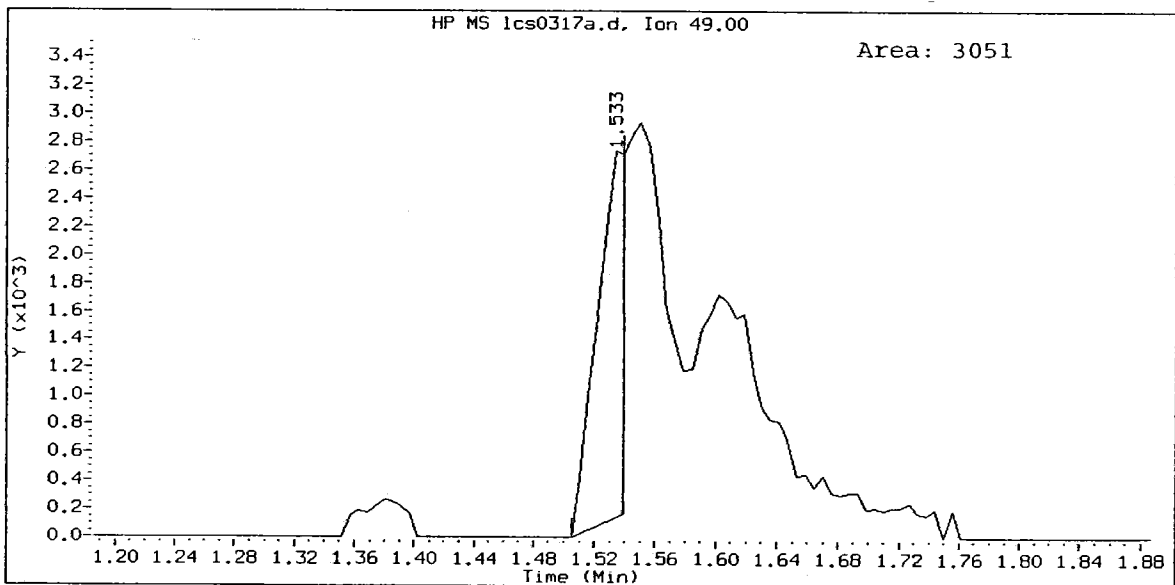
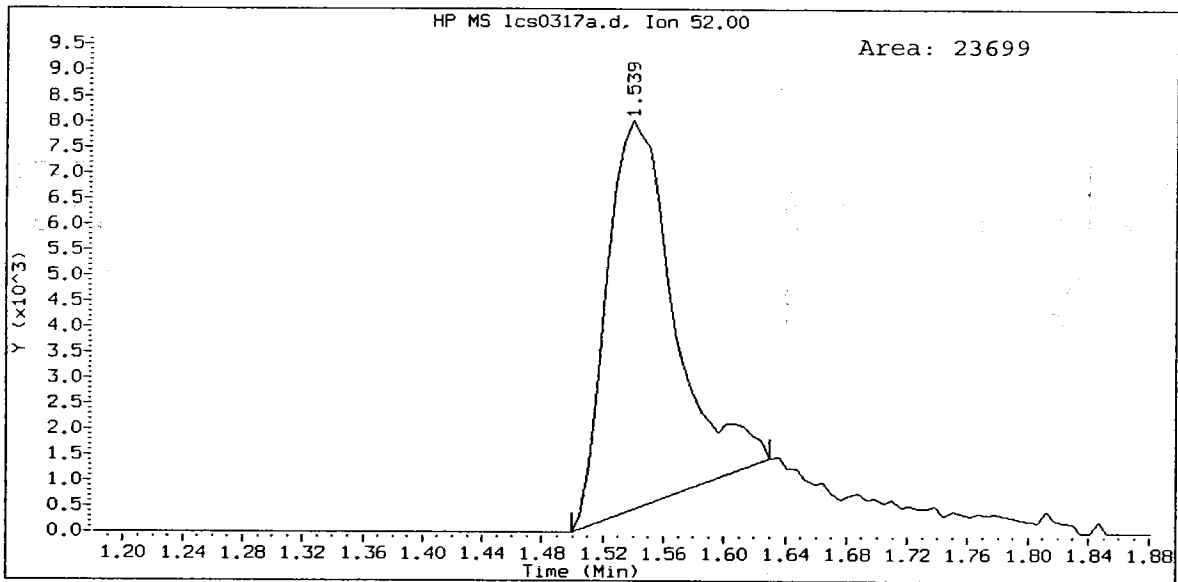
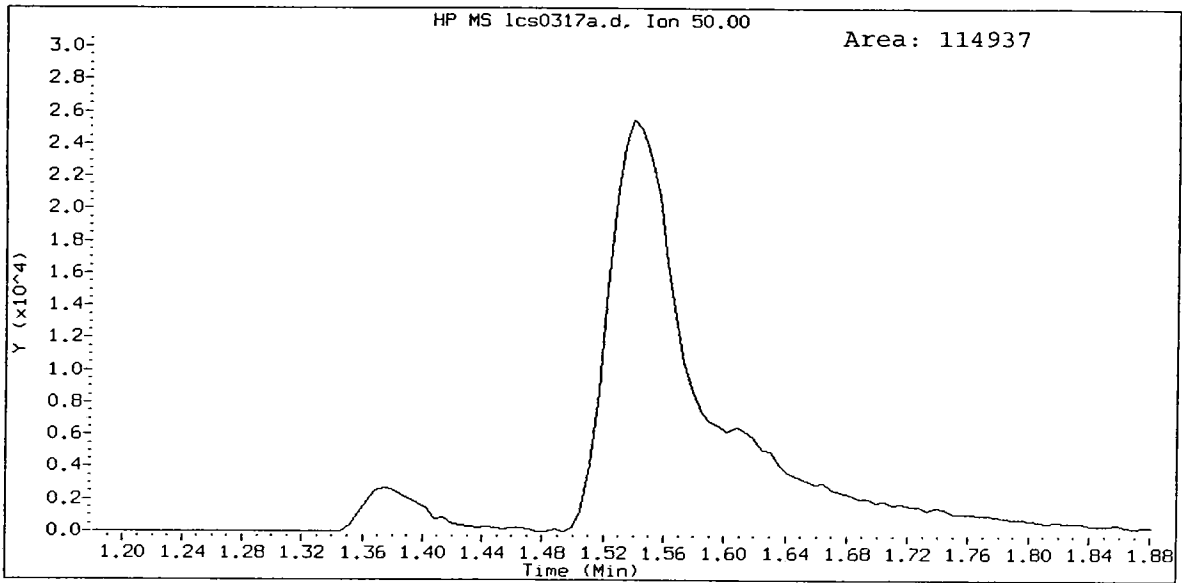
| SURROGATE COMPOUND | AMOUNT ADDED ug/L | AMOUNT RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-------------------------|-----------------------------|----------------|--------|
| \$ 32 d4-1,2-Dichloroeth | 10.000 | 11.135 | 111.35 | 80-143 |
| \$ 43 d8-Toluene | 10.000 | 10.020 | 100.20 | 80-120 |
| \$ 63 4-Bromofluorobenze | 10.000 | 11.060 | 110.60 | 80-120 |
| \$ 79 d4-1,2-Dichloroben | 10.000 | 10.033 | 100.33 | 80-120 |

Data File: /chem1/nt10.i/17MAR10.b/lcs0317a.d
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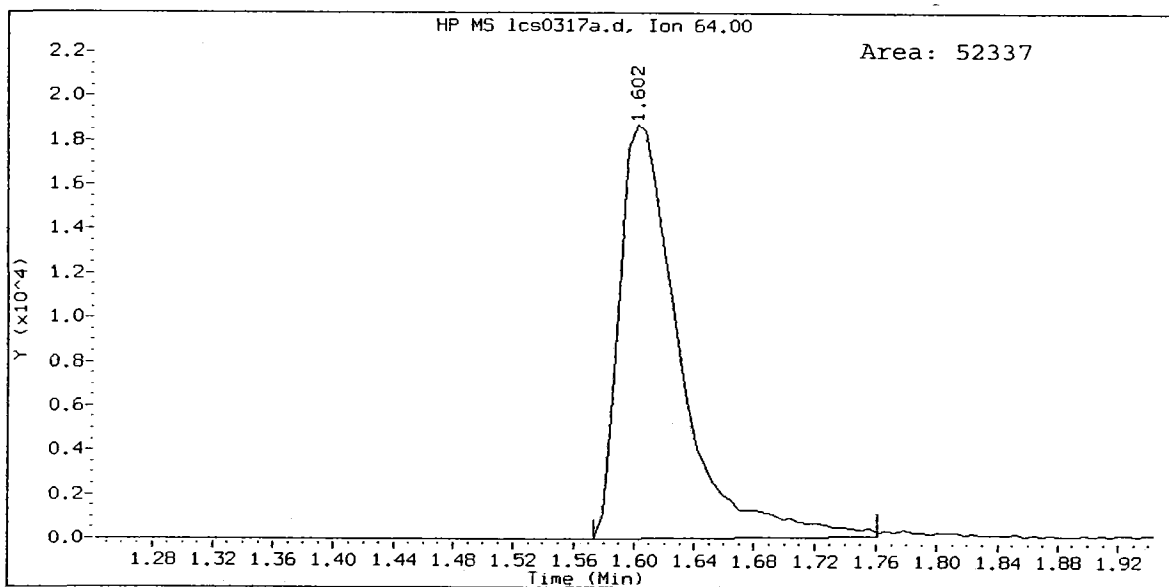
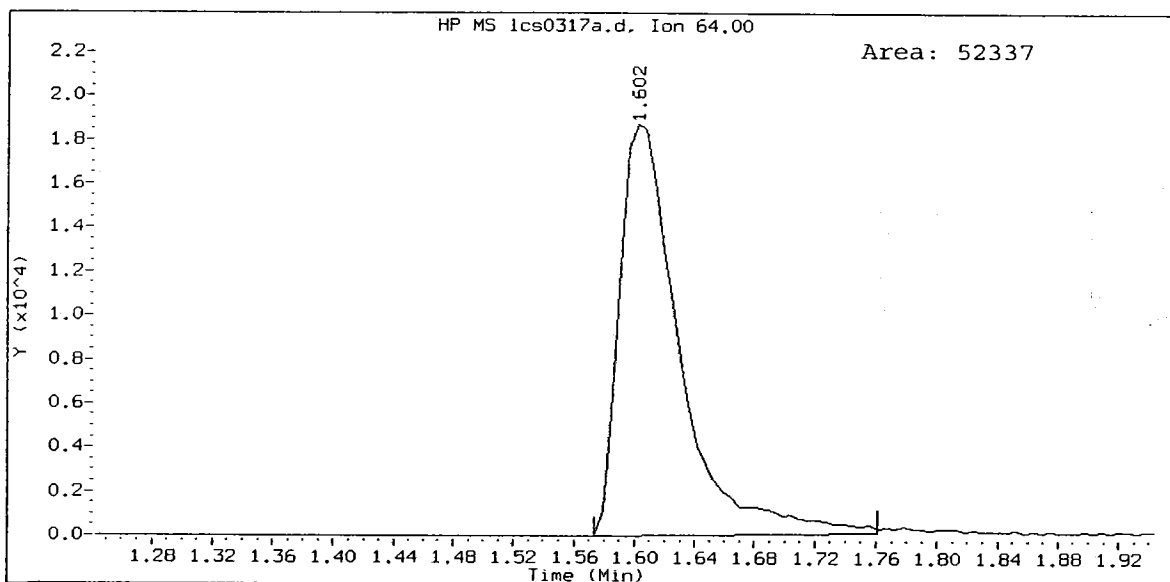
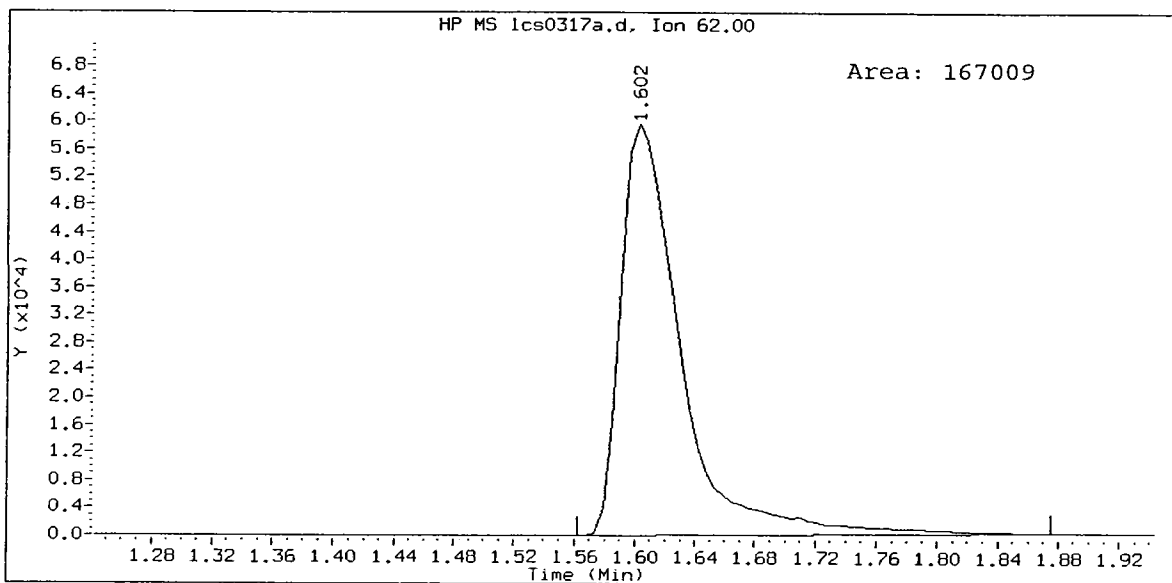
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Instrument: nt10.i
Operator: ar
Column diameter: 0.18



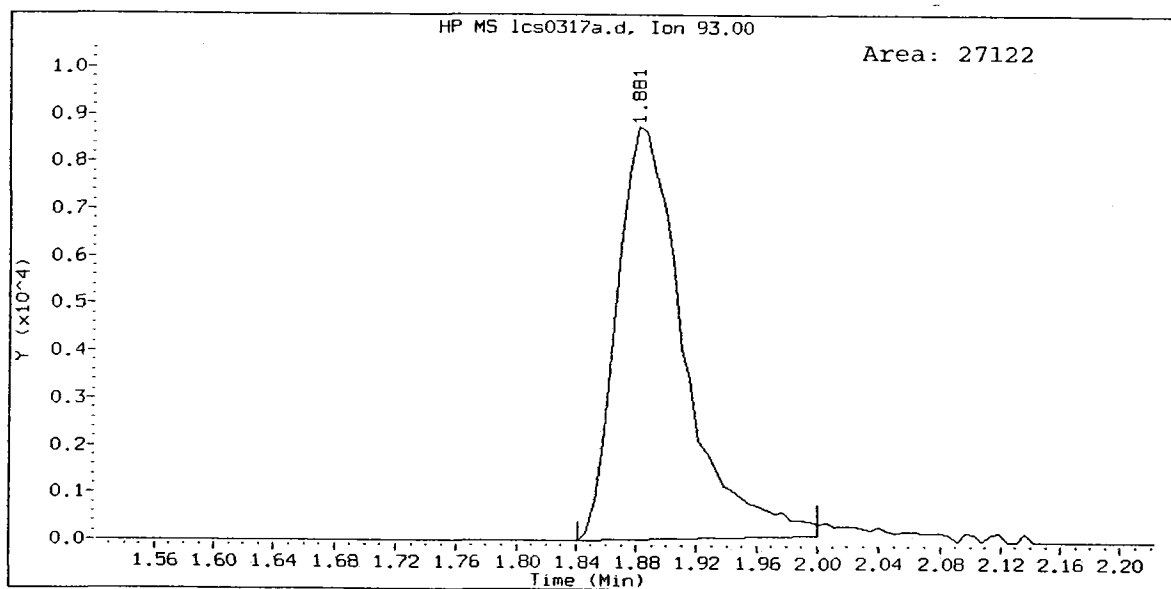
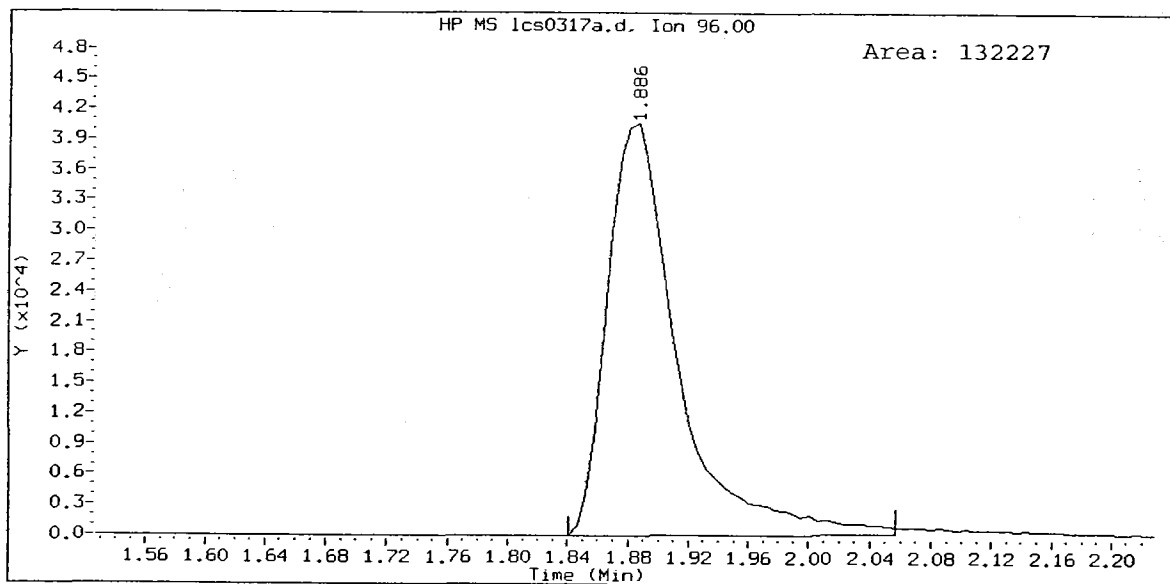
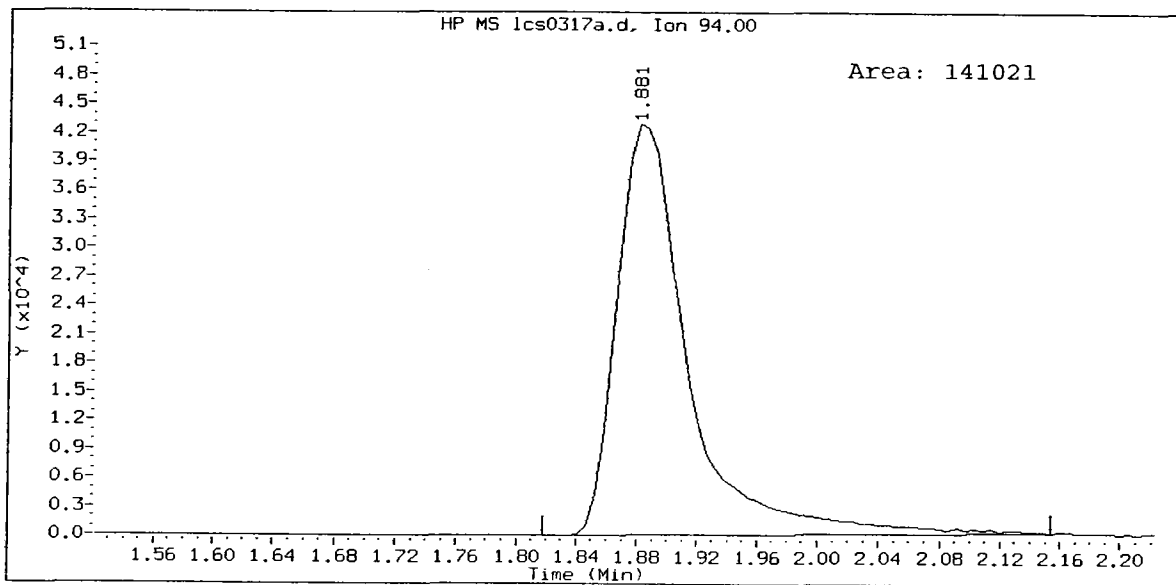


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Vinyl Chloride Amount: 7.50

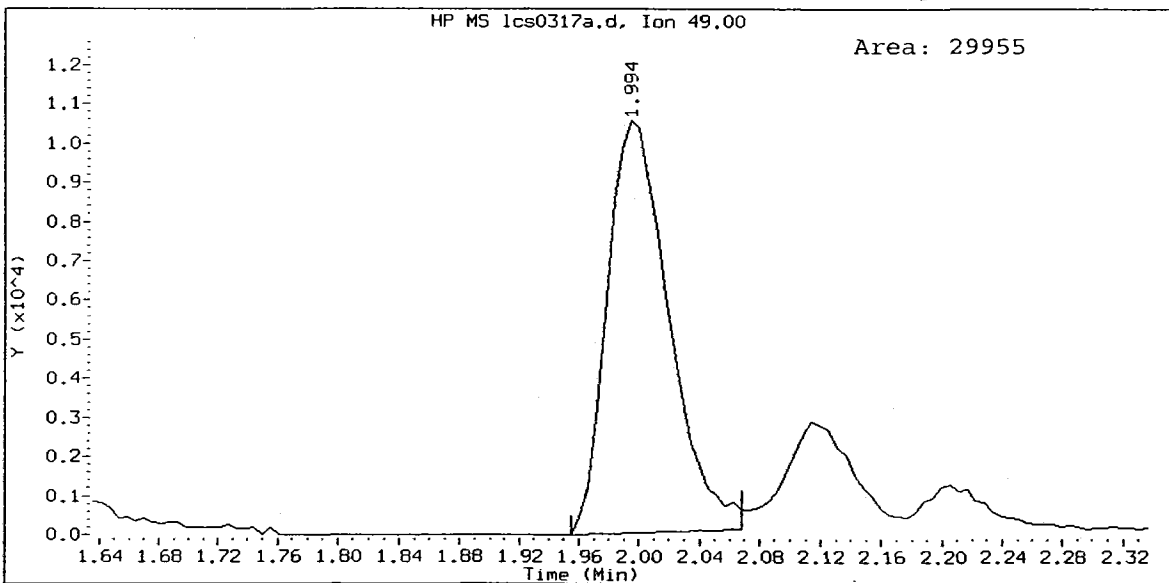
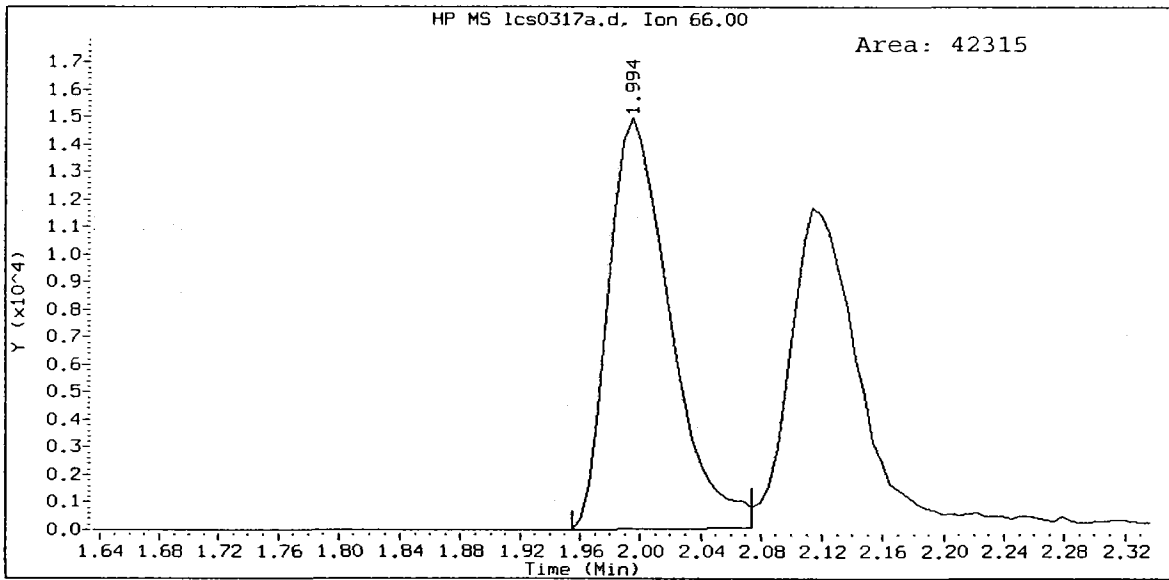
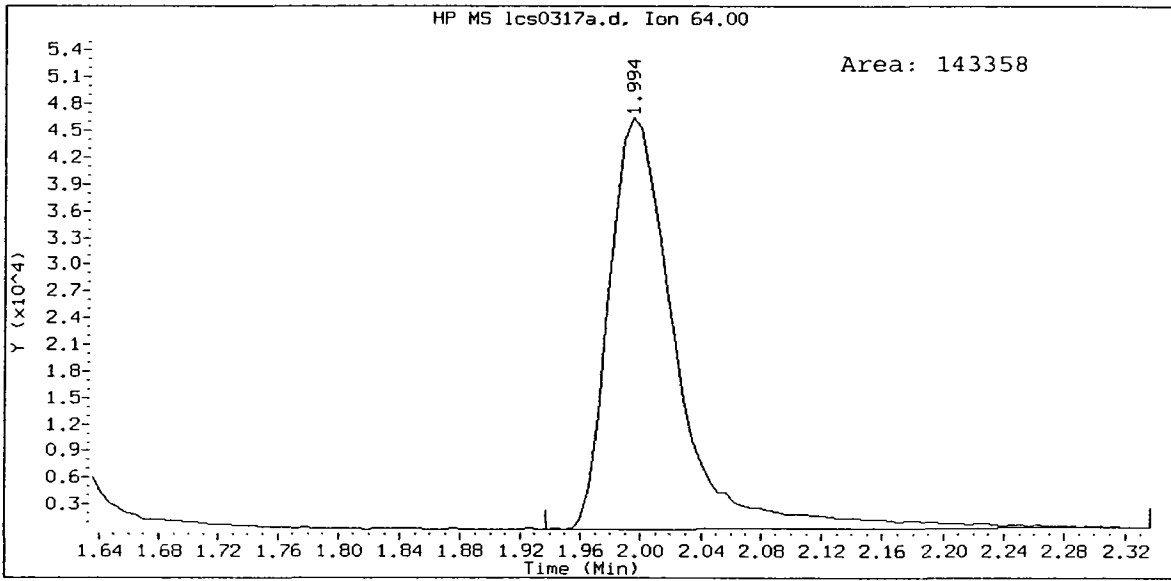


GN31 : 00306

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Bromomethane Amount: 7.54

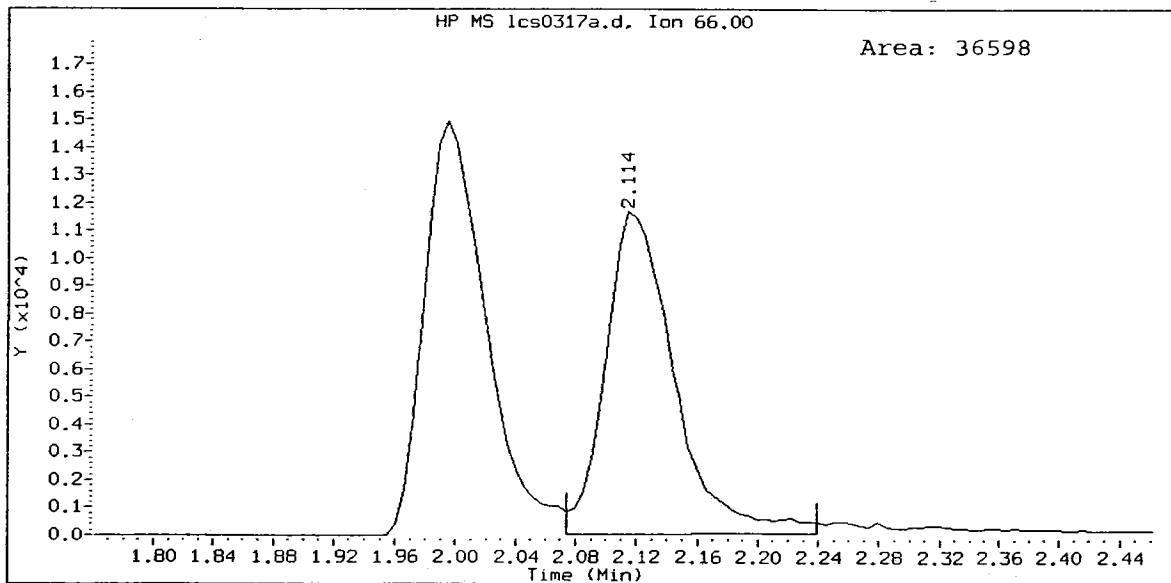
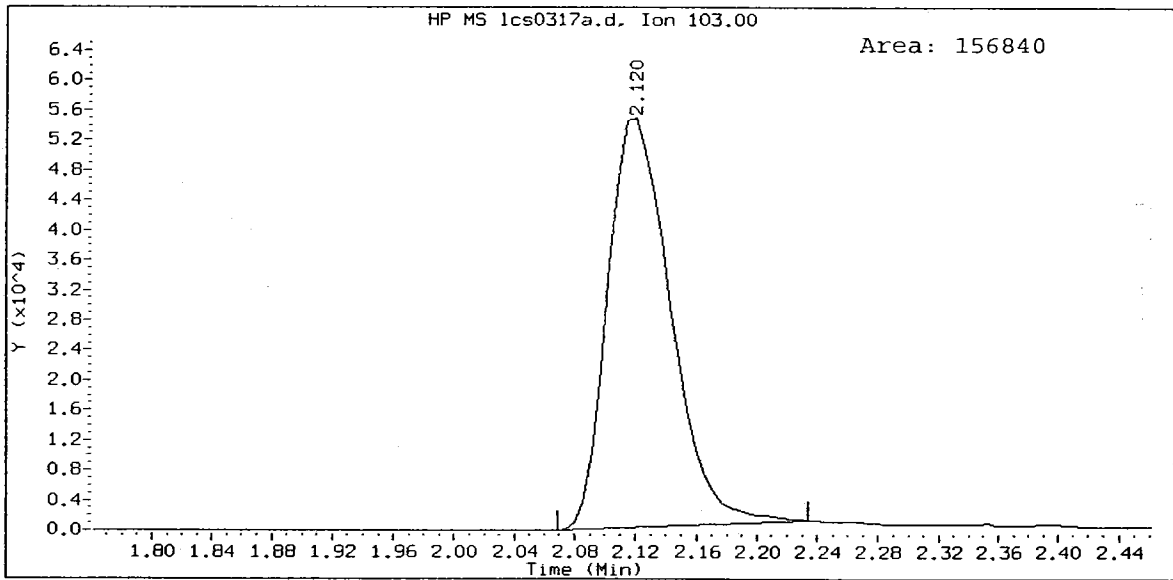
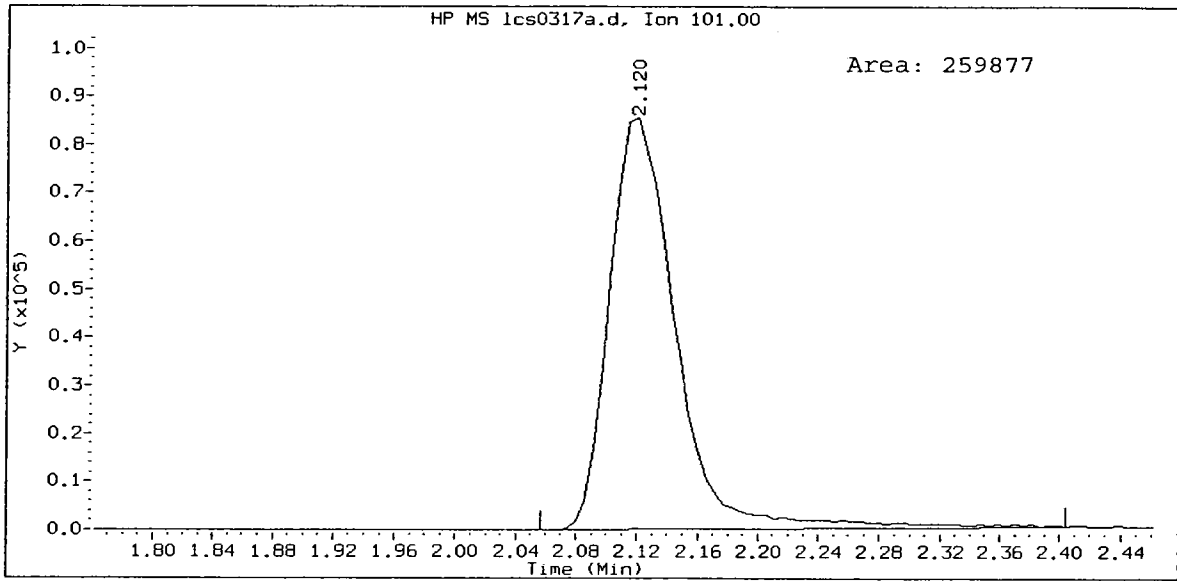


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Chloroethane Amount: 8.23

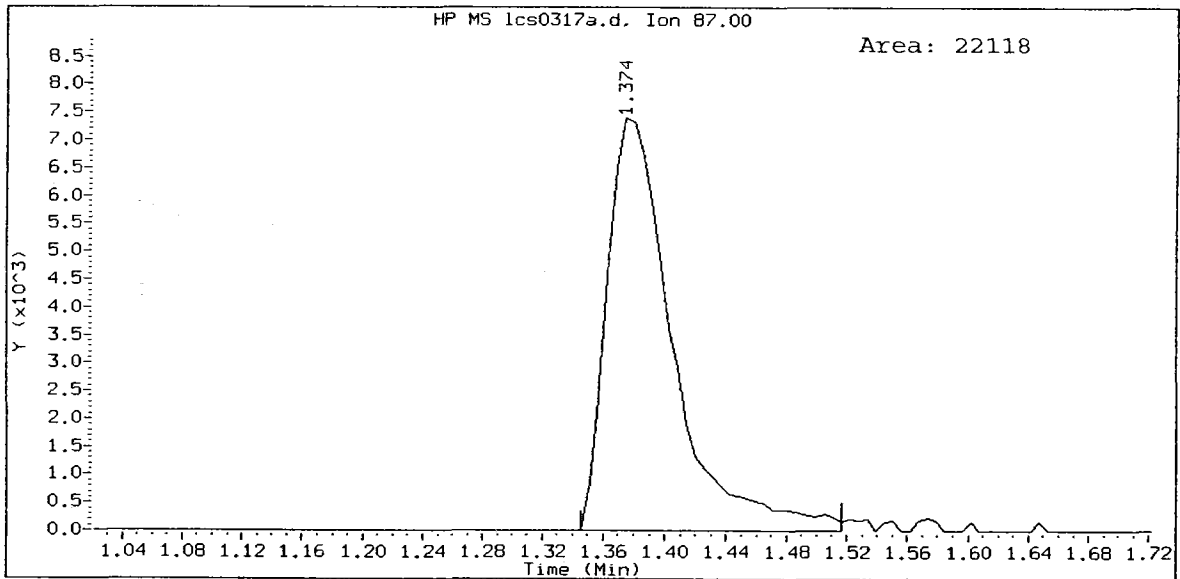
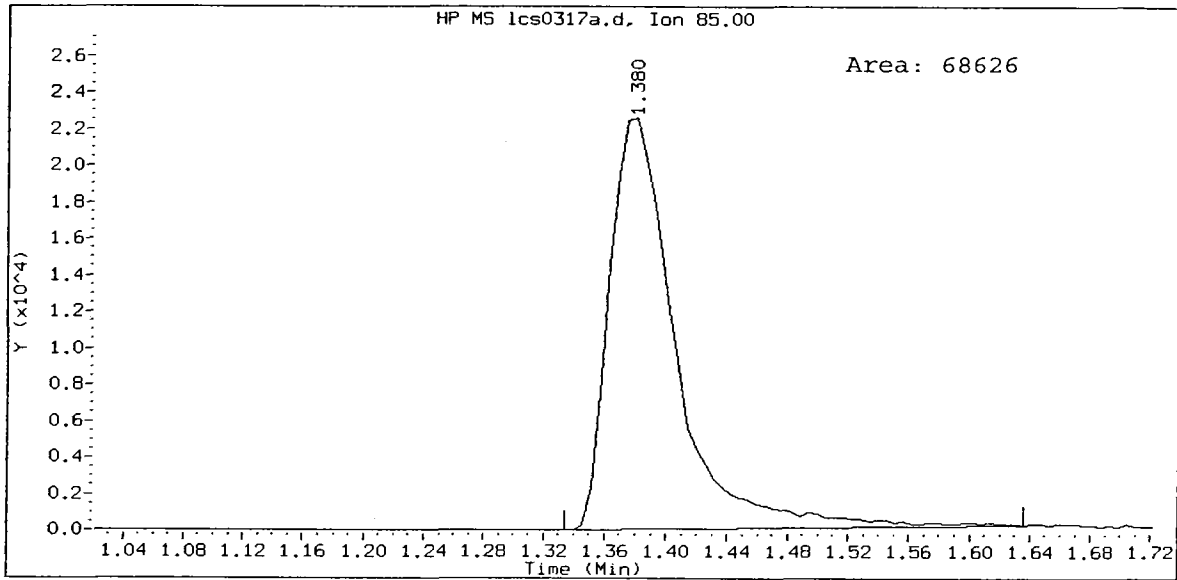


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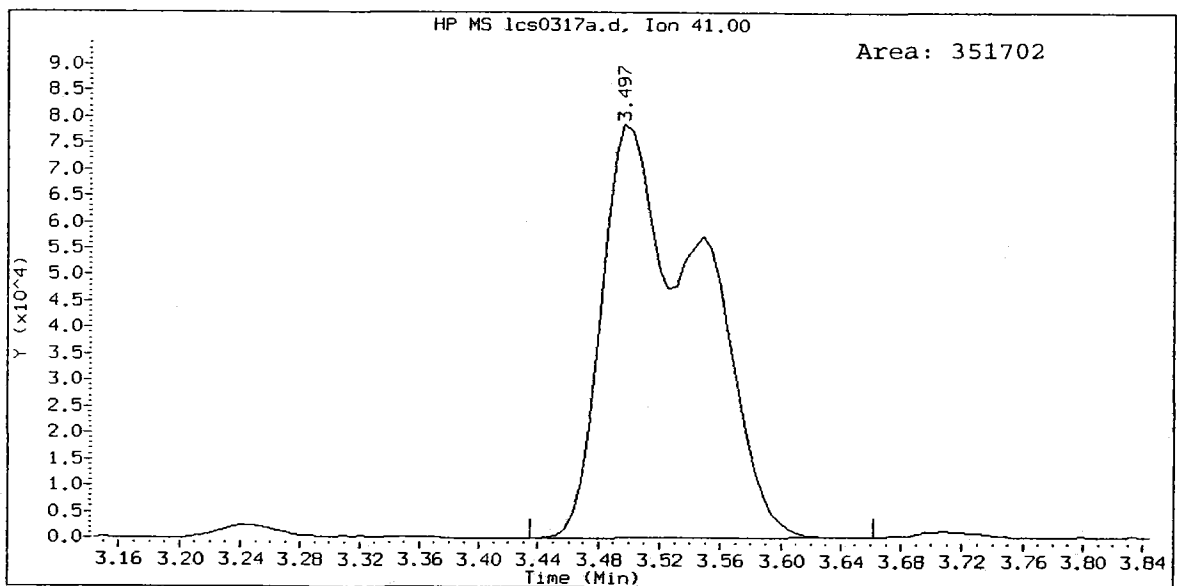
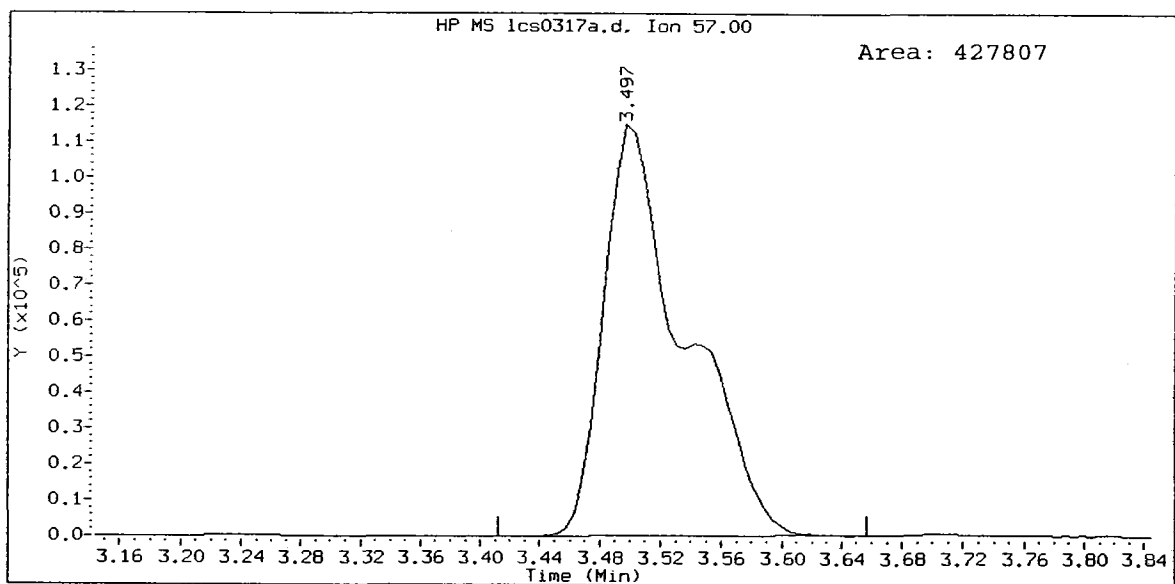
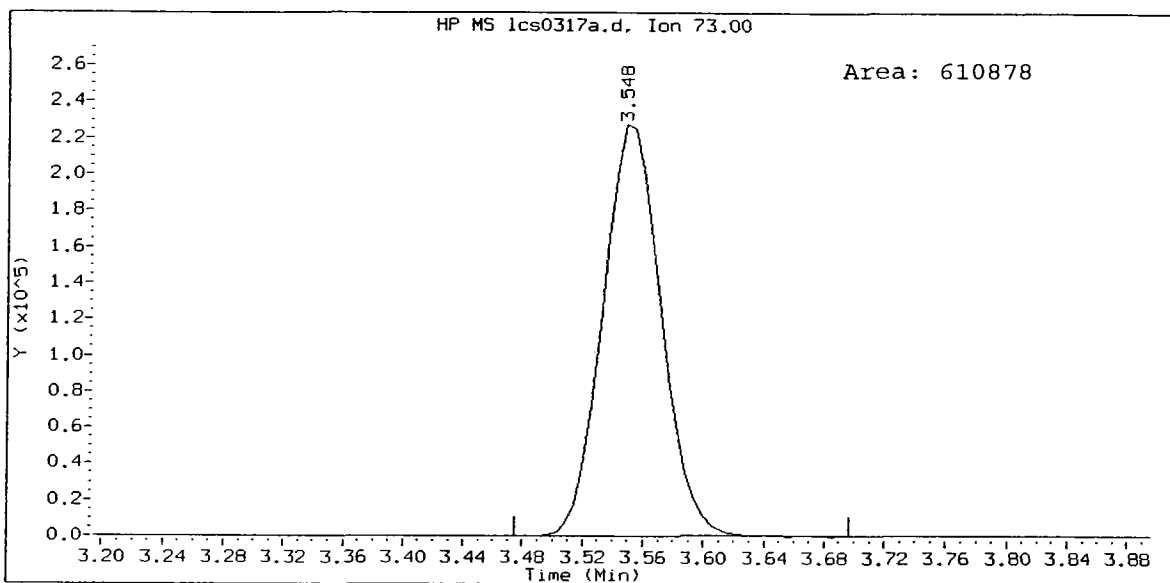
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Trichlorofluoromethane Amount: 8.35



LCSD0317, /chem1/nt10.i/17MAR10.b/lcs0317a.d
Dichlorodifluoromethane Amount: 4.47



LCSD0317, /chem1/nt10.i/17MAR10.b/lcs0317a.d
Methyl tert butyl ether Amount: 18.81



Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 3/4/10 A Analysis: 8260 Analyst: AR
 GC Program: NDA IC Column No: 8688268 Column Type: RTXUMS
 Instrument Tune (.U or .CT.): of b0303A.b EM Voltage: 1153
 Calibration File: 1000303.b Curve Date: 3/4/2010

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|---|------------------------------------|
| 617-3 | 619-2#3, 614-5, 615-1# 617-1 623- | 569-5 614-2#3 590-2 589-1 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/04MAR10a.b

| Time | Filename | LabID | ClientID | WT | | | | | | | | | |
|------|------------|---------|----------|------|---|------|--------|------|--------|------|--------|------|--------|
| 1757 | rbf0304.d | RF0304 | RF0304 | 6.00 | | | | | | | | | |
| 1822 | rb0304.d | RB0304 | RB0304 | | 1 | 5.27 | 428381 | 5.66 | 690397 | 7.72 | 607721 | 9.40 | 237003 |
| 1851 | 0010304.d | IC001 | vstd1 | | 1 | 5.27 | 430763 | 5.66 | 689573 | 7.72 | 600050 | 9.40 | 215934 |
| 1920 | 0020304.d | IC002 | vstd2 | | 1 | 5.27 | 412805 | 5.65 | 667305 | 7.72 | 584634 | 9.40 | 216482 |
| 1950 | 0050304.d | IC005 | vstd3 | | 1 | 5.27 | 419701 | 5.66 | 681256 | 7.72 | 614085 | 9.40 | 226476 |
| 2020 | 15000304.d | IC1500 | vstd10 | | 1 | 5.27 | 402904 | 5.65 | 656424 | 7.72 | 579678 | 9.41 | 182536 |
| 2050 | 6000304.d | IC600 | vstd9 | | 1 | 5.27 | 436841 | 5.65 | 713571 | 7.72 | 638248 | 9.41 | 198024 |
| 2119 | 4000304.d | IC400 | vstd8 | | 1 | 5.27 | 436809 | 5.66 | 705860 | 7.72 | 643590 | 9.41 | 217204 |
| 2149 | 2000304.d | IC200 | vstd7 | | 1 | 5.27 | 464545 | 5.66 | 751576 | 7.72 | 676495 | 9.41 | 237636 |
| 2219 | 1000304.d | IC100 | vstd6 | | 1 | 5.27 | 429759 | 5.66 | 690004 | 7.72 | 631144 | 9.41 | 251982 |
| 2248 | 0400304.d | IC040 | vstd5 | | 1 | 5.27 | 461804 | 5.65 | 746135 | 7.72 | 665692 | 9.40 | 235664 |
| 2318 | 0100304.d | IC010 | vstd4 | | 1 | 5.27 | 423621 | 5.65 | 680717 | 7.72 | 618251 | 9.40 | 216964 |
| 2347 | icv0304.d | ICV0304 | ICV0304 | | 1 | 5.27 | 448624 | 5.66 | 740075 | 7.72 | 681227 | 9.40 | 241591 |

AR 3/8/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: VOA Curve Client ID: ARI

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/2010 Analysis Start Date: 3/4/2010

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO NA

BFB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO NA

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO NA

ICal acceptable? YES / NO; Q flag applied? YES / NO / NA

^{ICV}CCal acceptable? YES / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No Yes

Analyst Signature: [Signature] Date: 3/16/2010

Reviewer's Signature: [Signature] Date: 3/16/10

VOA Analyst Notes / Corrective Action Log

ARI Project ID: QN31 Client ID: Floyd-Snider

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): WA

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/2010 Analysis Start Date: 3/17/2010

PH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

3FB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO ²

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO / NA VD

Cal acceptable? YES / NO; Q flag applied? YES / NO / NA

Cal acceptable? YES / NO; Q flag applied? YES / NO / NA ¹

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

^{NR}
Q Flags: DCDFM ↓ @ 35.4%^D (NR), Chloromethane ↓ @ 32.5%^D, Bromomethane ↓ @ 20.3%^D &
• 2,2-Dichloropropane ↑ @ 25.3%^D,
@ 45.9%^R
• LCS: DCDFM out low_n (In house 59%^R, ME 47%^R) [NR], Chloromethane out low @ 58.5%^R (in house 68%^R, ME 57%^R) & 2,2-dichloropropane out high @ 132.2%^R (in house 121%^R, ME 130%^R)
• LCSD: DCDFM out low @ 44.74%^R, Chloromethane out low @ 65.93%^R &
2,2-dichloropropane out high @ 132.19%^R

Additional Details on Reverse: Yes / No Yes

Analyst Signature: [Signature] Date: 3/18/2010

Reviewer's Signature: [Signature] Date: 3/19/10

SIM Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| <u>Client ID</u> | <u>DCE</u> | <u>TOL</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-031910 | 106% | 100% | 0 |
| LCS-031910 | 96.3% | 100% | 0 |
| LCSD-031910 | 92.7% | 99.9% | 0 |
| CB31A031110GRAB | 102% | 100% | 0 |
| CB31A031110GRAB-MS | 99.2% | 101% | 0 |
| CB31A031110GRAB-MSD | 100% | 101% | 0 |
| CB1031110GRAB | 106% | 101% | 0 |
| CB4857031110GRAB | 111% | 100% | 0 |
| CB101031110GRAB | 125% | 101% | 0 |
| TB031110 | 108% | 99.8% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|-------------------------------|----------------------|------------------|
| (DCE) = d4-1,2-Dichloroethane | (80-133) | (80-136) |
| (TOL) = d8-Toluene | (80-121) | (80-120) |

Prep Method: SW5030
Log Number Range: 10-6027 to 10-6031

FORM-II SW8260-SIM

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/22/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst MS: NT7/PKC
MSD: NT7/PKC
Date Analyzed MS: 03/19/10 04:40
MSD: 03/19/10 05:06

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 | 1.12 | 1.00 | 112% | 1.17 | 1.00 | 117% | 4.4% |
| cis-1,2-Dichloroethene | < 0.020 U | 1.05 | 1.00 | 105% | 1.08 | 1.00 | 108% | 2.8% |
| trans-1,2-Dichloroethene | < 0.020 U | 1.04 | 1.00 | 104% | 1.08 | 1.00 | 108% | 3.8% |
| Trichloroethene | < 0.020 U | 1.01 | 1.00 | 101% | 1.05 | 1.00 | 105% | 3.9% |
| Tetrachloroethene | < 0.020 U | 1.05 | 1.00 | 105% | 1.09 | 1.00 | 109% | 3.7% |

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-031910
 Page 1 of 1 LAB CONTROL SAMPLE

Lab Sample ID: LCS-031910 QC Report No: QN31-Floyd-Snider
 LIMS ID: 10-6027 Project: Lora Lakes Apartments
 Matrix: Water POS-LLA
 Data Release Authorized: *LS* Date Sampled: NA
 Reported: 03/22/10 Date Received: NA

Instrument/Analyst LCS: NT7/PKC Sample Amount LCS: 10.0 mL
 LCSD: NT7/PKC LCSD: 10.0 mL
 Date Analyzed LCS: 03/19/10 01:49 Purge Volume LCS: 10.0 mL
 LCSD: 03/19/10 02:16 LCSD: 10.0 mL

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------------------|-------|-----------------|--------------|-------|------------------|---------------|------|
| 1,2-Dichloroethane | 0.941 | 1.00 | 94.1% | 0.992 | 1.00 | 99.2% | 5.3% |
| cis-1,2-Dichloroethene | 0.897 | 1.00 | 89.7% | 0.924 | 1.00 | 92.4% | 3.0% |
| trans-1,2-Dichloroethene | 0.901 | 1.00 | 90.1% | 0.925 | 1.00 | 92.5% | 2.6% |
| Trichloroethene | 0.900 | 1.00 | 90.0% | 0.955 | 1.00 | 95.5% | 5.9% |
| Tetrachloroethene | 0.928 | 1.00 | 92.8% | 0.989 | 1.00 | 98.9% | 6.4% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|-------|
| d4-1,2-Dichloroethane | 96.3% | 92.7% |
| d8-Toluene | 100% | 99.9% |

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

| |
|--------|
| MB0319 |
|--------|

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Lab File ID: 03191005

Lab Sample ID: MB0319

Date Analyzed: 03/19/10

Time Analyzed: 0242

Instrument ID: NT7

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 | LCS0319 | LCS0319 | 03191003 | 0149 |
| 02 | LCSD0319 | LCSD0319 | 03191004 | 0216 |
| 03 | TB031110 | QN31E | 03191006 | 0320 |
| 04 | CB31A031110G | QN31A | 03191008 | 0413 |
| 05 | CB31A031110G | QN31AMS | 03191009 | 0440 |
| 06 | CB31A031110G | QN31AMSD | 03191010 | 0506 |
| 07 | CB1031110GRA | QN31B | 03191011 | 0533 |
| 08 | CB4857031110 | QN31C | 03191012 | 0559 |
| 09 | CB101031110G | QN31D | 03191013 | 0626 |
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

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

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: QN31

Lab File ID: 03191001 BFB Injection Date: 03/19/10

Instrument ID: NT7 BFB Injection Time: 0046

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 8.0 - 40.0% of mass 95 | 14.2 |
| 75 | 30.0 - 66.0% of mass 95 | 42.3 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.3 (0.5)1 |
| 174 | 50.0 - 101.0% of mass 95 | 68.7 |
| 175 | 4.0 - 9.0% of mass 174 | 4.8 (6.9)1 |
| 176 | 93.0 - 101.0% of mass 174 | 65.1 (94.7)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 (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 | CC0319 | CC0319 | 03191002 | 03/19/10 | 0123 |
| 02 | LCS0319 | LCS0319 | 03191003 | 03/19/10 | 0149 |
| 03 | LCSD0319 | LCSD0319 | 03191004 | 03/19/10 | 0216 |
| 04 | MB0319 | MB0319 | 03191005 | 03/19/10 | 0242 |
| 05 | TB031110 | QN31E | 03191006 | 03/19/10 | 0320 |
| 06 | CB31A031110GRAB | QN31A | 03191008 | 03/19/10 | 0413 |
| 07 | CB31A031110GRAB | QN31AMS | 03191009 | 03/19/10 | 0440 |
| 08 | CB31A031110GRAB | QN31AMSD | 03191010 | 03/19/10 | 0506 |
| 09 | CB1031110GRAB | QN31B | 03191011 | 03/19/10 | 0533 |
| 10 | CB4857031110GRAB | QN31C | 03191012 | 03/19/10 | 0559 |
| 11 | CB101031110GRAB | QN31D | 03191013 | 03/19/10 | 0626 |
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03181012

Ical Date: 03/18/10

Instrument ID: NT7

Project Run Date: 03/18/10

| | IS1 (PFB) AREA # | RT # | IS2 (DFB) AREA # | RT # | AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 415601 | 5.32 | 615588 | 5.75 | | |
| UPPER LIMIT | 831202 | 5.82 | 1231176 | 6.25 | | |
| LOWER LIMIT | 207800 | 4.82 | 307794 | 5.25 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 ICV0318 | 409680 | 5.32 | 614179 | 5.75 | | |
| 02 | | | | | | |
| 03 | | | | | | |
| 04 | | | | | | |
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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: QN31

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03181012

Ical Date: 03/18/10

Instrument ID: NT7

Project Run Date: 03/19/10

| | IS1 (PFB) AREA # | RT # | IS2 (DFB) AREA # | RT # | AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 415601 | 5.32 | 615588 | 5.75 | | |
| UPPER LIMIT | 831202 | 5.82 | 1231176 | 6.25 | | |
| LOWER LIMIT | 207800 | 4.82 | 307794 | 5.25 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Sample ID | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 LCS0319 | 451437 | 5.32 | 658660 | 5.75 | | |
| 02 LCSD0319 | 469405 | 5.32 | 652501 | 5.75 | | |
| 03 MB0319 | 428896 | 5.32 | 623454 | 5.75 | | |
| 04 TB031110 | 438256 | 5.32 | 617625 | 5.75 | | |
| 05 CB31A031110G | 425308 | 5.32 | 595229 | 5.75 | | |
| 06 CB31A031110G | 411522 | 5.33 | 609238 | 5.75 | | |
| 07 CB31A031110G | 403760 | 5.33 | 598768 | 5.75 | | |
| 08 CB1031110GRA | 375751 | 5.33 | 545591 | 5.75 | | |
| 09 CB4857031110 | 345623 | 5.32 | 524408 | 5.75 | | |
| 10 CB101031110G | 311686 | 5.33 | 497981 | 5.76 | | |
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| 22 | | | | | | |

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

SIM Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31A

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 04:13

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 102% |
| d8-Toluene | 100% |

NC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191008.d
Report Date: 22-Mar-2010 15:23

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191008.d
Lab Smp Id: QN31A Client Smp ID: CB31A031110GRAB
Inj Date : 19-MAR-2010 04:13
Operator : PC Inst ID: nt7.i
Smp Info : QN31A,10,10,0
Misc Info : 10-6027
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 MASS | 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 | 5.209 | (0.907) | 19100 | 23.7445 | 23.744 |
| * 4 Pentafluorobenzene | 168 | | 5.316 | 5.315 | (1.000) | 425308 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.327 | (1.002) | 157822 | 1024.16 | 1024.2 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 433 | 2.15079 | 2.151(Q) |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 595229 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.901 | 6.903 | (1.201) | 678179 | 1001.74 | 1001.7 |
| 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: 03191008.d
Lab Smp Id: QN31A
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6027

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CB31A031110GRAB
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 425308 | -2.61 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 595229 | -3.84 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.01 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: QN31A
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6027

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB31A031110GRAB
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 | 1024.2 | 102.42 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1001.7 | 100.17 | 60-140 |

Data File: /chem/nt7.1/19HARCH2010.b/03191008.d

Date: 19-HAR-2010 04:13

Client ID: CE316031110GRAB

Sample Info: QN31A,10,10,0

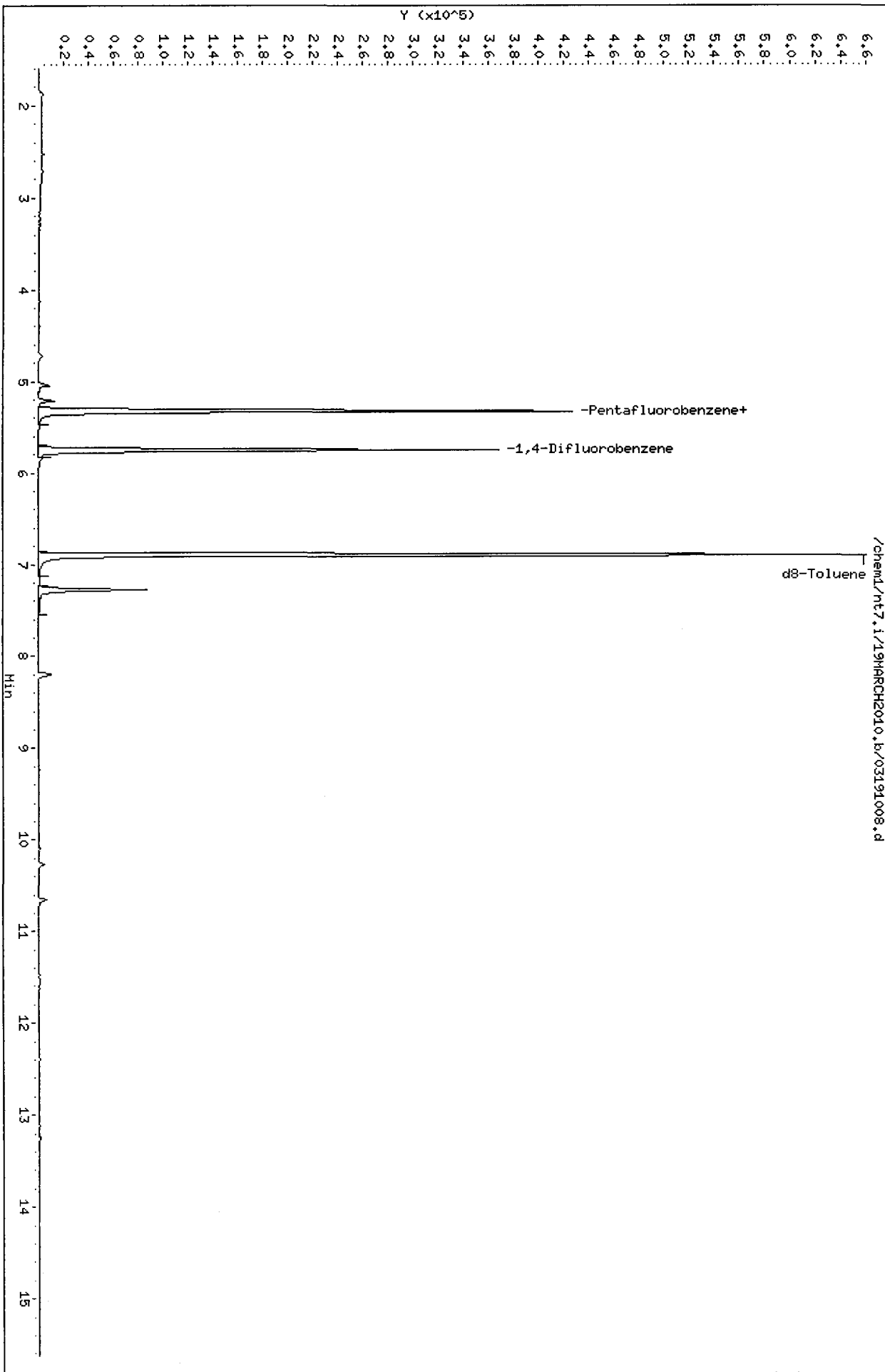
Column phase: RTXVMS

Page 5

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



QN31 : 00332

Date : 19-MAR-2010 04:13

Client ID: CB31A031110GRAB

Instrument: nt7.i

Sample Info: QN31A,10,10,0

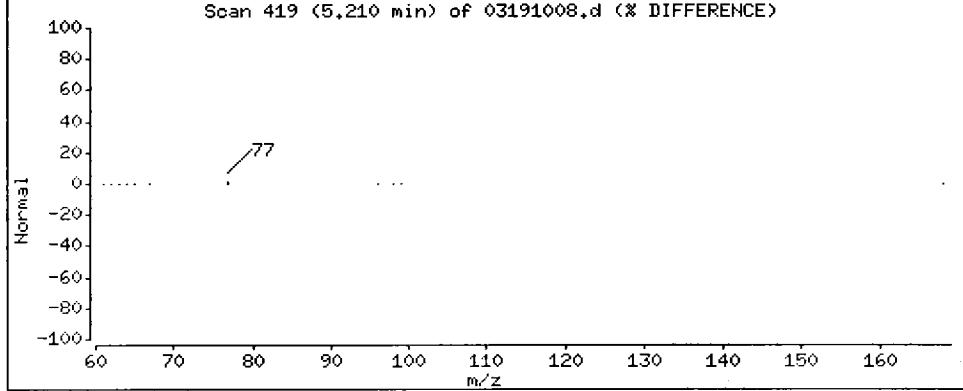
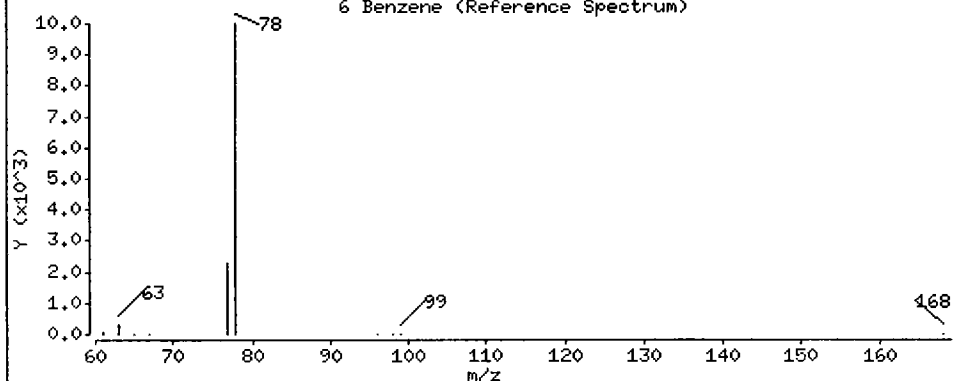
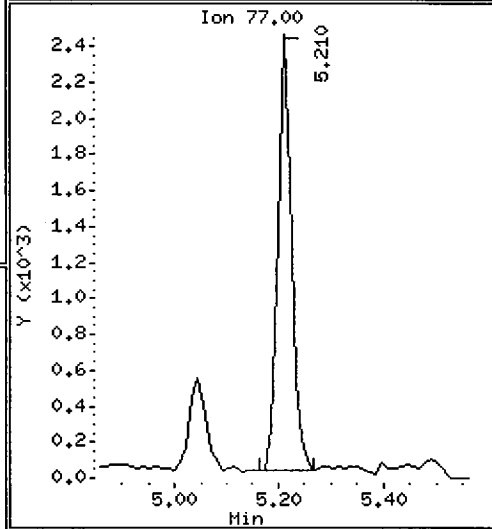
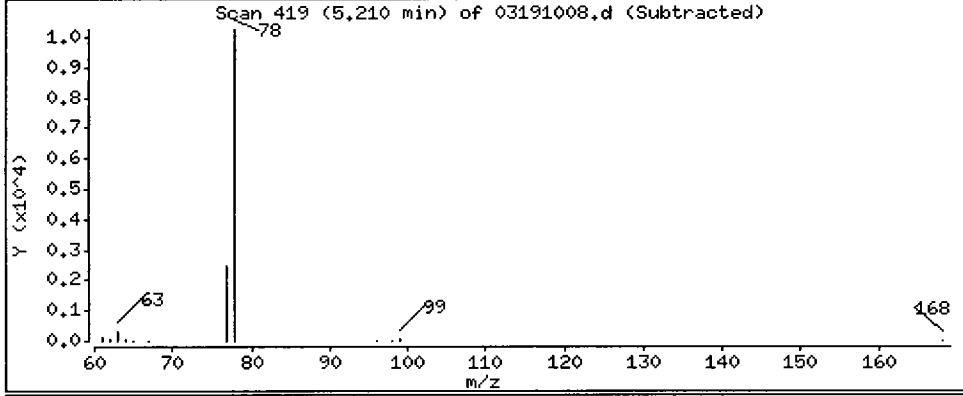
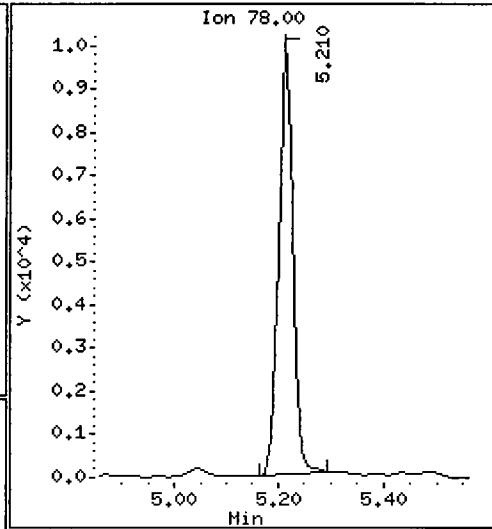
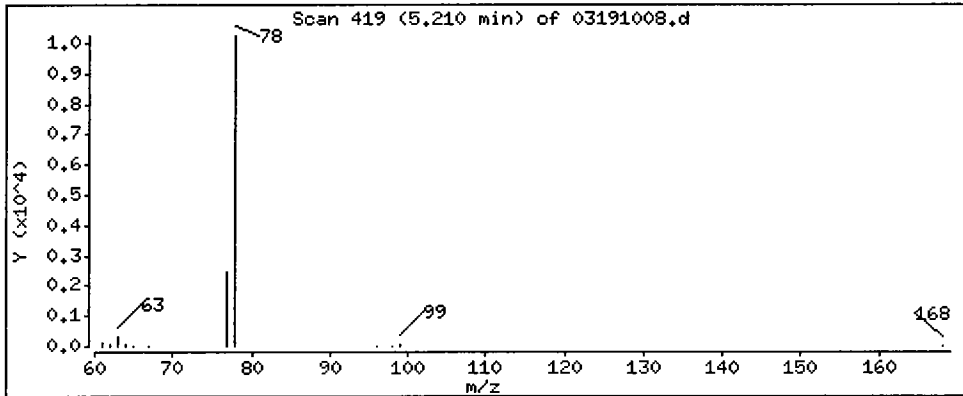
Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

6 Benzene

Concentration: 23,744 ug/L



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31B


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6028

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 05:33

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 106% |
| d8-Toluene | 101% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191011.d
Report Date: 22-Mar-2010 15:23

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191011.d
Lab Smp Id: QN31B Client Smp ID: CB1031110GRAB
Inj Date : 19-MAR-2010 05:33
Operator : PC Inst ID: nt7.i
Smp Info : QN31B,10,10,0
Misc Info : 10-6028
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | | 5.328 | 5.315 | (1.000) | 375751 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.327 | (1.000) | 144580 | 1061.97 | 1062.0 |
| 176 1,2-Dichloroethane | 62 | | 5.387 | 5.386 | (1.011) | 559 | 3.14103 | 3.141(Q) |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 545591 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.901 | 6.903 | (1.201) | 628519 | 1012.86 | 1012.9 |
| 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: 03191011.d
 Lab Smp Id: QN31B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-6028

Calibration Date: 19-MAR-2010
 Calibration Time: 01:23
 Client Smp ID: CB1031110GRAB
 Level: LOW
 Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 375751 | -13.96 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 545591 | -11.86 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.24 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31B
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6028

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB1031110GRAB
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 | 1062.0 | 106.20 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1012.9 | 101.29 | 60-140 |

Data File: /chem1/nt7.i/19MAR2010.b/03191011.d

Date: 19-MAR-2010 05:33

Client ID: CB1031110GRAB

Sample Info: QN31B,10,10,0

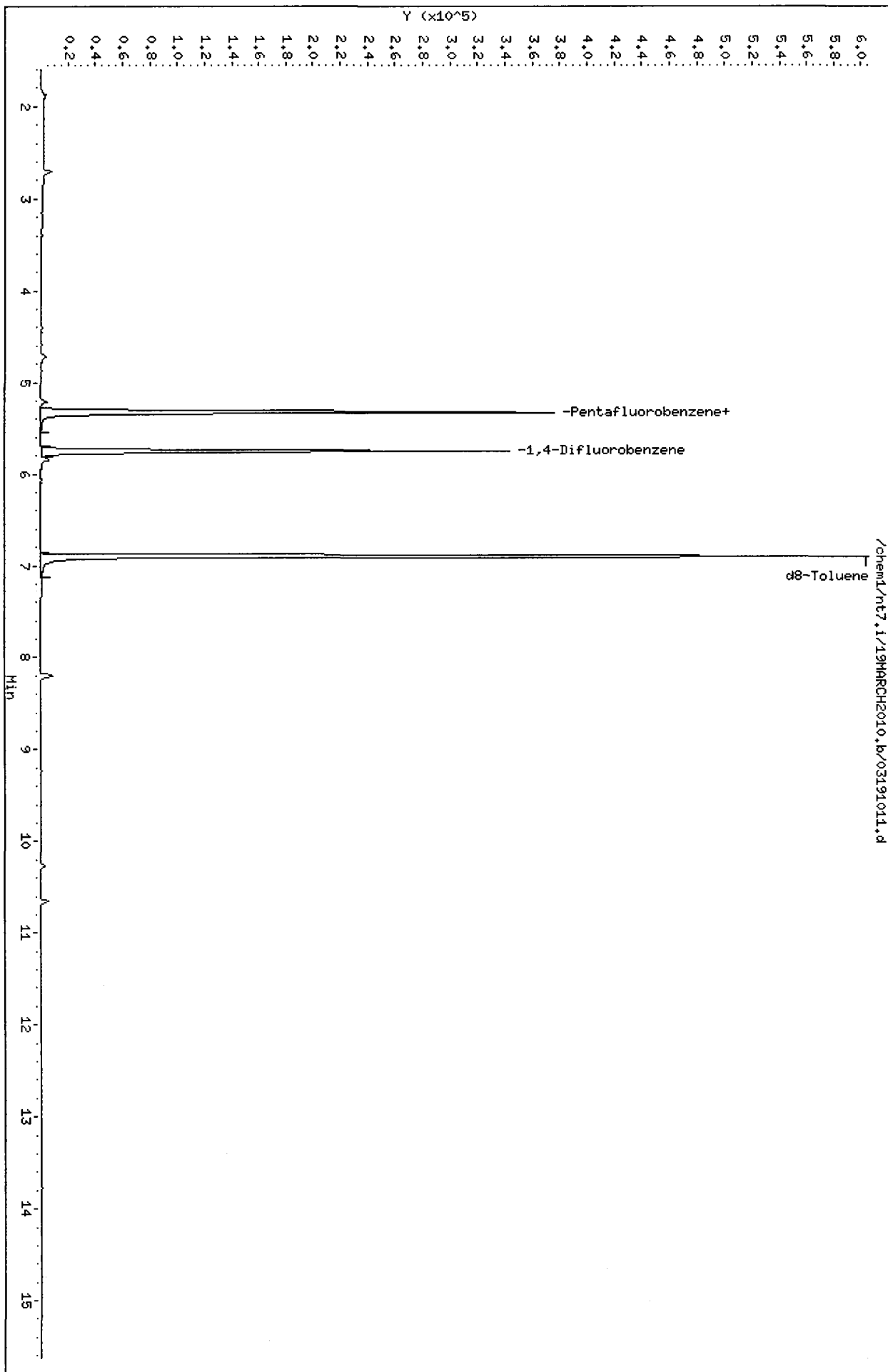
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

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QN31 : 000000

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857031110GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QN31C
LIMS ID: 10-6029
Matrix: Water
Data Release Authorized: *AB*
Reported: 03/22/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT7/PKC
Date Analyzed: 03/19/10 05:59

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 | 111% |
| d8-Toluene | 100% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191012.d
Report Date: 22-Mar-2010 15:23

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191012.d
Lab Smp Id: QN31C Client Smp ID: CB4857031110GRAB
Inj Date : 19-MAR-2010 05:59
Operator : PC Inst ID: nt7.i
Smp Info : QN31C,10,10,0
Misc Info : 10-6029
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.211 | 5.209 | (0.907) | 11317 | 15.9690 | 15.969 |
| * 4 Pentafluorobenzene | 168 | 5.317 | 5.315 | (1.000) | 345623 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.329 | 5.327 | (1.002) | 139515 | 1114.09 | 1114.1 |
| 176 1,2-Dichloroethane | 62 | 5.388 | 5.386 | (1.013) | 564 | 3.44281 | 3.443(Q) |
| 8 Trichloroethene | 130 | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | 5.747 | 5.745 | (1.000) | 524408 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 598537 | 1003.50 | 1003.5 |
| 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: 03191012.d
Lab Smp Id: QN31C
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6029

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CB4857031110GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 345623 | -20.86 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 524408 | -15.28 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.03 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QN31C
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6029

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB4857031110GRAB
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 | 1114.1 | 111.41 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1003.5 | 100.35 | 60-140 |

Data File: /chem1/nt7.1/19MARCH2010.b/03191012.d

Date : 19-MAR-2010 05:59

Client ID: CB485703110GRAB

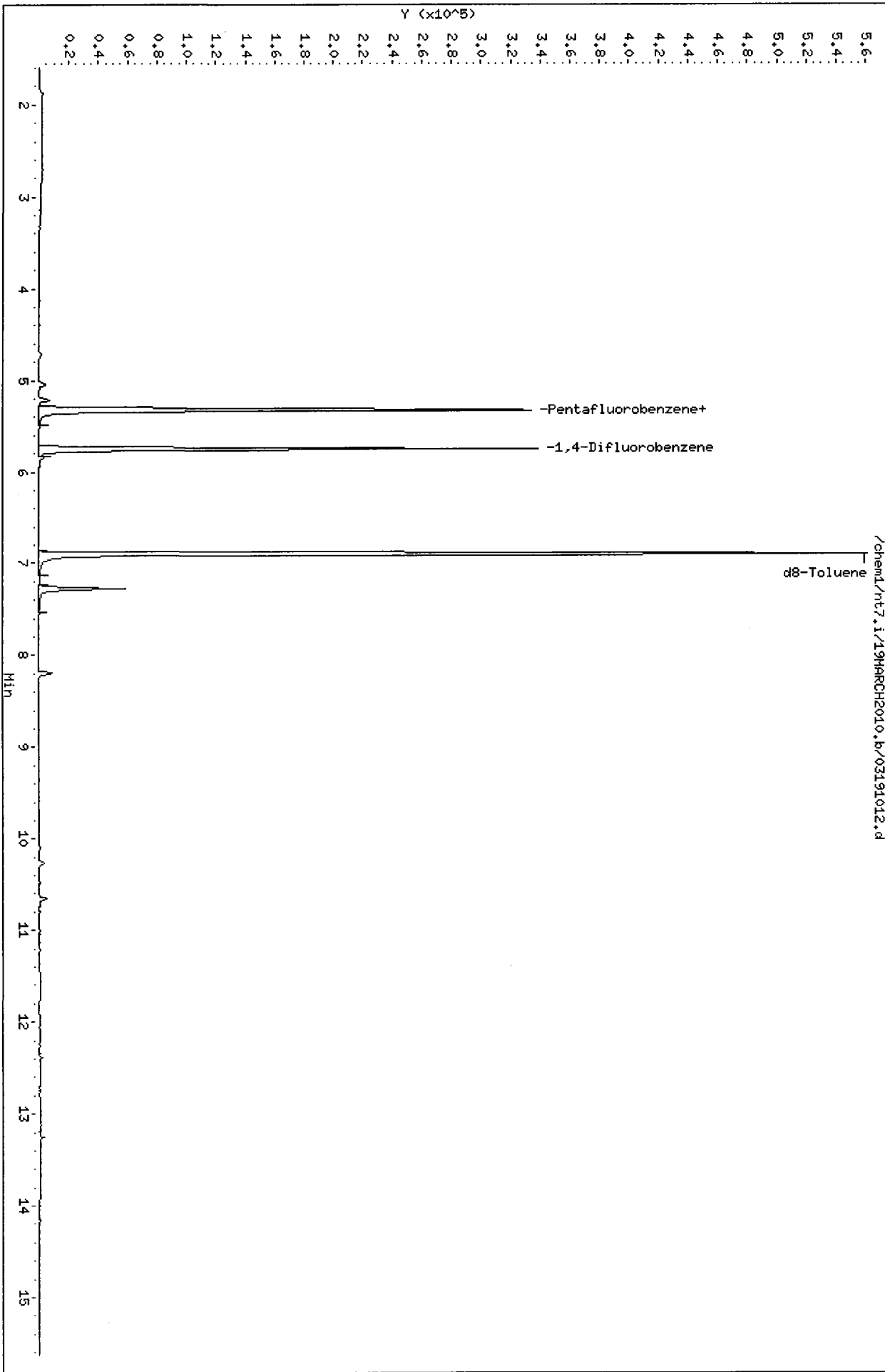
Sample Info: QN31C.10.10.0

Column phase: RTXVMS

Instrument: nt7.1

Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB101031110GRAB
Page 1 of 1 **SAMPLE**

Lab Sample ID: QN31D

QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6030

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 06:26

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 125% |
| d8-Toluene | 101% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191013.d
Report Date: 22-Mar-2010 15:23

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191013.d
Lab Smp Id: QN31D Client Smp ID: CB101031110GRAB
Inj Date : 19-MAR-2010 06:26
Operator : PC Inst ID: nt7.i
Smp Info : QN31D,10,10,0
Misc Info : 10-6030
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.209 | (0.905) | 10763 | 15.9941 | 15.994 |
| * 4 Pentafluorobenzene | 168 | | 5.328 | 5.315 | (1.000) | 311686 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.327 | (1.000) | 141329 | 1251.46 | 1251.5(R) |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.011) | 469 | 3.18060 | 3.181(Q) |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.757 | 5.745 | (1.000) | 497981 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.903 | 6.903 | (1.199) | 569594 | 1005.65 | 1005.7 |
| 10 Tetrachloroethene | 166 | | | | | | | |
| 11 1,1,2,2-Tetrachloroethane | 83 | | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191013.d
Lab Smp Id: QN31D
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6030

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CB101031110GRAB
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 311686 | -28.63 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 497981 | -19.55 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: QN31D
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6030

Client SDG: QN31
Fraction: VOA
Client Smp ID: CB101031110GRAB
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 | 1251.5 | 125.15* | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1005.7 | 100.57 | 60-140 |

Data File: /chem1/nt7.i/19MAR2010.b/03191013.d

Date: 19-MAR-2010 06:26

Client ID: CB1010311106RAB

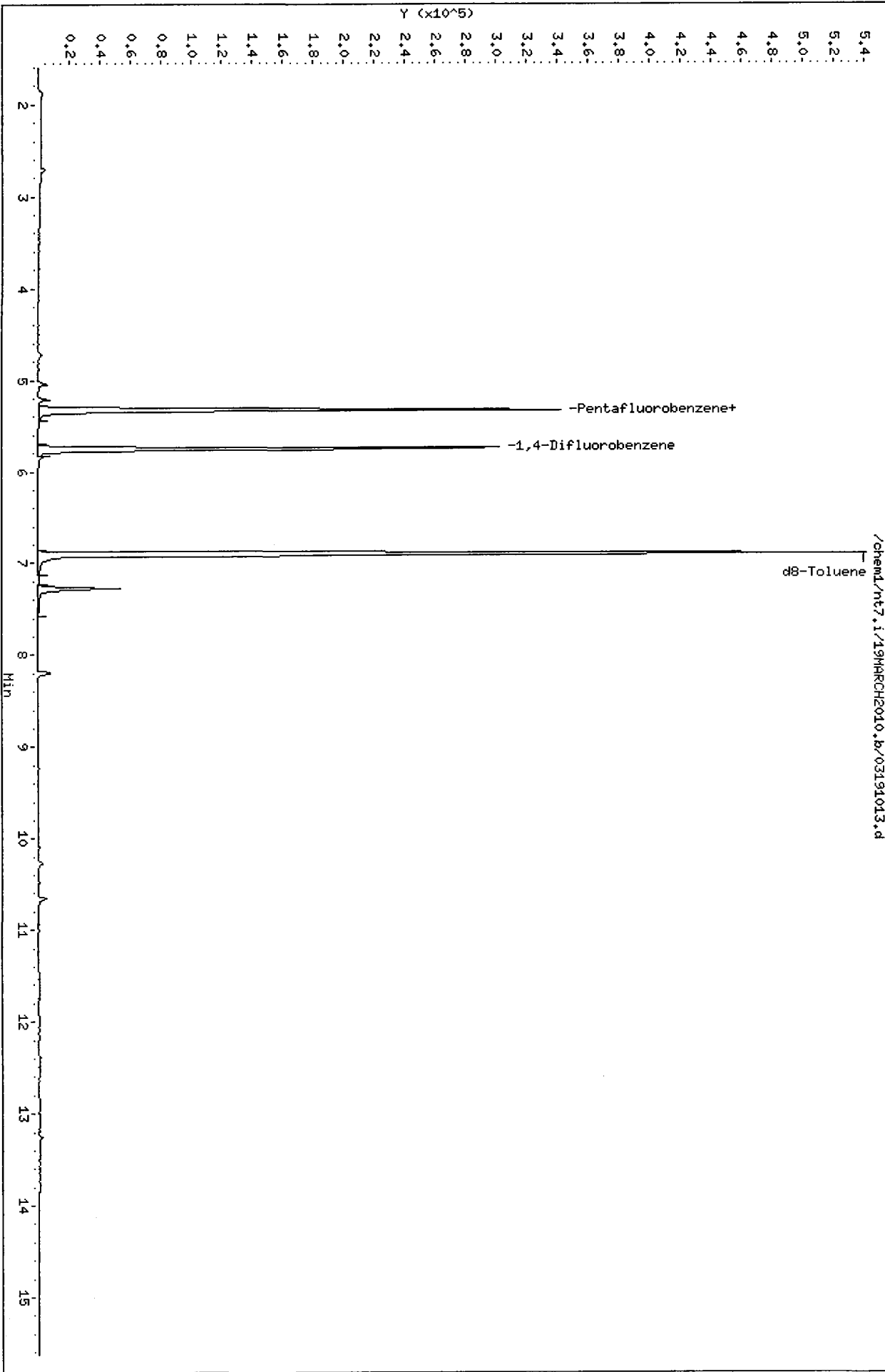
Sample Info: QN31D/10/10/0

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB031110
Page 1 of 1 Trip Blank

Lab Sample ID: QN31E


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6031

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 03/11/10

Reported: 03/22/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 03:20

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|-------|
| d4-1,2-Dichloroethane | 108% |
| d8-Toluene | 99.8% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191006.d
Report Date: 22-Mar-2010 15:30

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191006.d
Lab Smp Id: QN31E Client Smp ID: TB031110
Inj Date : 19-MAR-2010 03:20
Operator : PC Inst ID: nt7.i
Smp Info : QN31E,10,10,0
Misc Info : 10-6031
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.315 | (1.000) | 438256 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.327 | (1.002) | 170833 | 1075.84 | 1075.8 |
| 176 1,2-Dichloroethane | 62 | | | | | | | |
| 8 Trichloroethene | 130 | | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 617625 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.901 | 6.903 | (1.201) | 700860 | 997.706 | 997.71 |
| 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: 03191006.d
 Lab Smp Id: QN31E
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-6031

Calibration Date: 19-MAR-2010
 Calibration Time: 01:23
 Client Smp ID: TB031110
 Level: LOW
 Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 438256 | 0.35 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 617625 | -0.22 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: QN31E
Level: LOW
Data Type: MS DATA
SpikeList File: special.spk
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6031

Client SDG: QN31
Fraction: VOA
Client Smp ID: TB031110
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 | 1075.8 | 107.58 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 997.71 | 99.77 | 60-140 |

Data File: /chem1/nt7.i/19MARCH2010.b/03191006.d

Date : 19-MAR-2010 03:20

Client ID: TB031110

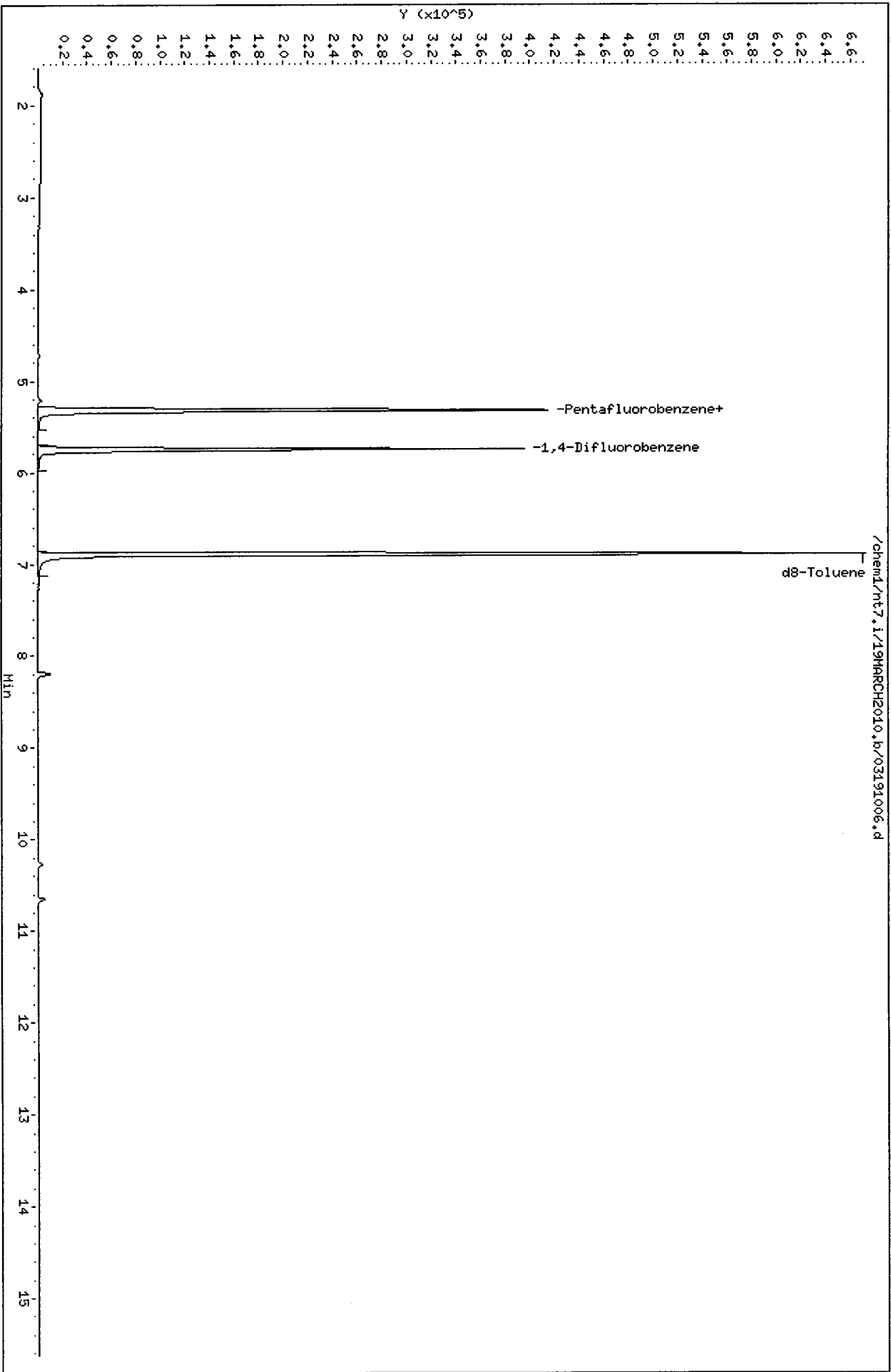
Sample Info: QN31E_10_10_0

Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



SIM Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: QN31
Instrument ID: NT7

Client: FLOYD-SNIDER
Project: LORA LAKES APARTMENTS
Calibration Date: 03/18/10

LAB FILE ID: RF20: 03181008 RF50: 03181007 RF100: 03181006
RF500: 03181012 RF1000: 03181011

| COMPOUND | RF20 | RF50 | RF100 | RF500 | RF1000 |
|---------------------------|-------|------|-------|-------|--------|
| Vinyl Chloride | 0.484 | | 0.508 | 0.544 | 0.538 |
| 1,1-Dichloroethene | 0.425 | | 0.408 | 0.446 | 0.435 |
| cis-1,2-dichloroethene | 0.457 | | 0.456 | 0.498 | 0.496 |
| Benzene | 1.396 | | 1.302 | 1.367 | 1.405 |
| Trichloroethene | 0.356 | | 0.334 | 0.350 | 0.363 |
| Tetrachloroethene | 0.307 | | 0.309 | 0.333 | 0.346 |
| 1,1,2,2-Tetrachloroethane | 0.180 | | 0.197 | 0.224 | 0.245 |
| Trans-1,2-Dichloroethene | 0.466 | | 0.433 | 0.491 | 0.485 |
| 1,2-Dichloroethane | 0.379 | | 0.425 | 0.512 | 0.506 |
| d4-1,2-Dichloroethane | 0.379 | | 0.393 | 0.362 | 0.340 |
| d8-Toluene | 1.141 | | 1.146 | 1.135 | 1.134 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT7

Calibration Date: 03/18/10

LAB FILE ID: RF2000: 03181010 RF4000: 03181009

| COMPOUND | TYPE | RF | CURVE OR R ² | AVE | %RSD |
|---------------------------|-------|-------|----------------------------|-------|------|
| Vinyl Chloride | 0.557 | 0.522 | AVRG | 0.525 | 5.1 |
| 1,1-Dichloroethene | 0.451 | 0.422 | AVRG | 0.431 | 3.8 |
| cis-1,2-dichloroethene | 0.513 | 0.479 | AVRG | 0.483 | 4.8 |
| Benzene | 1.375 | 1.263 | AVRG | 1.351 | 4.2 |
| Trichloroethene | 0.360 | 0.337 | AVRG | 0.350 | 3.4 |
| Tetrachloroethene | 0.339 | 0.320 | AVRG | 0.326 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 0.251 | 0.235 | AVRG | 0.222 | 12.7 |
| Trans-1,2-Dichloroethene | 0.497 | 0.466 | AVRG | 0.473 | 4.9 |
| 1,2-Dichloroethane | 0.532 | 0.490 | AVRG | 0.474 | 12.4 |
| d4-1,2-Dichloroethane | 0.354 | 0.346 | AVRG | 0.362 | 5.7 |
| d8-Toluene | 1.138 | 1.130 | AVRG | 1.137 | 0.5 |

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

FORM VI VOA

QN31:00359

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
 End Cal Date : 18-MAR-2010 06:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Cal Date : 19-Mar-2010 09:31 paul
 Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt7.i/18MARCH2010.b/03181008.d
- Level 2: /chem1/nt7.i/18MARCH2010.b/03181007.d
- Level 3: /chem1/nt7.i/18MARCH2010.b/03181006.d
- Level 4: /chem1/nt7.i/18MARCH2010.b/03181012.d
- Level 5: /chem1/nt7.i/18MARCH2010.b/03181011.d
- Level 6: /chem1/nt7.i/18MARCH2010.b/03181010.d
- Level 7: /chem1/nt7.i/18MARCH2010.b/03181009.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 | RRF | % RSD |
|------------------------------|--------------------|-------------------|--------------------|--------------------|---------------------|---------------------|---------|--------|
| 1 Vinyl Chloride | 0.48376 0.52179 | +++++ | 0.50774 | 0.54359 | 0.53814 | 0.55692 | 0.52532 | 5.069 |
| 2 1,1-Dichloroethene | 0.42537 0.42152 | +++++ | 0.40807 | 0.44646 | 0.43475 | 0.45126 | 0.43124 | 3.754 |
| 175 Trans-1,2-Dichloroethene | 0.46650 0.46660 | +++++ | 0.43332 | 0.49097 | 0.48515 | 0.49691 | 0.47324 | 4.910 |
| 3 cis-1,2-dichloroethene | 0.45730 0.47881 | +++++ | 0.45609 | 0.49779 | 0.49618 | 0.51299 | 0.48319 | 4.804 |
| 6 Benzene | 1.39651 1.26302 | +++++ | 1.30166 | 1.36727 | 1.40479 | 1.37544 | 1.35145 | 4.186 |
| 176 1,2-Dichloroethane | 0.37907 0.49034 | +++++ | 0.42523 | 0.51151 | 0.50624 | 0.53152 | 0.47398 | 12.450 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
 End Cal Date : 18-MAR-2010 06:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Cal Date : 19-Mar-2010 09:31 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 | | | | | | | |
| 8 Trichloroethene | 0.35651 0.33729 | ++++ | 0.33408 | 0.34966 | 0.36312 | 0.36008 | 0.35012 | 3.454 |
| 10 Tetrachloroethene | 0.30707 0.31987 | ++++ | 0.30885 | 0.33278 | 0.34616 | 0.33903 | 0.32563 | 4.973 |
| 11 1,1,2,2-Tetrachloroethane | 0.17951 0.23538 | ++++ | 0.19690 | 0.22438 | 0.24462 | 0.25117 | 0.22199 | 12.714 |
| \$ 5 d4-1,2-Dichloroethane | 0.37943 0.34550 | ++++ | 0.39306 | 0.36247 | 0.33968 | 0.35381 | 0.36232 | 5.664 |
| \$ 9 d8-Toluene | 1.14117 1.12969 | ++++ | 1.14584 | 1.13501 | 1.13444 | 1.13810 | 1.13737 | 0.497 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAR-2010 04:07
End Cal Date : 18-MAR-2010 06:47
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Cal Date : 19-Mar-2010 09:31 paul
Curve Type : Average

Average %RSD Results.

=====
Calculated Average %RSD = 5.67955

Maximum Average %RSD = 5.00000

* Failed Average %RSD Test.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
Batch File: /chem1/nt7.i/18MARCH2010.b
Inst ID: nt7.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|-------------|--------|---------|
| FILENAME: | 03181006 | 03181008 | 03181009 | 03181010 | 03181011 | 03181012 | | | | |
| INJ. DATE: | 18-MAR-2010 | 18-MAR-2010 | 18-MAR-2010 | 18-MAR-2010 | 18-MAR-2010 | 18-MAR-2010 | | | | |
| INJ. TIME: | 04:07 | 05:01 | 05:27 | 05:54 | 06:21 | 06:47 | | | | |
| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
| 1 Vinyl Chloride | 1.554 | 1.553 | 1.550 | 1.551 | 1.554 | 1.553 | 1.554 | 1.341-1.766 | 1.553 | 0.001 |
| 2 1,1-Dichloroethene | 2.519 | 2.519 | 2.520 | 2.519 | 2.519 | 2.520 | 2.519 | 2.307-2.732 | 2.519 | 0.000 |
| 175 Trans-1,2-Dichloroethene | 3.295 | 3.295 | 3.296 | 3.295 | 3.295 | 3.296 | 3.295 | 3.082-3.507 | 3.295 | 0.000 |
| 3 cis-1,2-dichloroethene | 4.446 | 4.446 | 4.447 | 4.446 | 4.446 | 4.447 | 4.446 | 4.234-4.659 | 4.446 | 0.000 |
| 6 Benzene | 5.210 | 5.210 | 5.211 | 5.210 | 5.210 | 5.211 | 5.210 | 4.980-5.440 | 5.210 | 0.000 |
| * 4 Pentafluorobenzene | 5.316 | 5.316 | 5.317 | 5.316 | 5.316 | 5.317 | 5.316 | 5.103-5.528 | 5.316 | 0.000 |
| \$ 5 d4-1,2-Dichloroethane | 5.328 | 5.327 | 5.328 | 5.327 | 5.328 | 5.328 | 5.328 | 5.115-5.540 | 5.328 | 0.000 |
| 176 1,2-Dichloroethane | 5.386 | 5.386 | 5.375 | 5.386 | 5.386 | 5.387 | 5.386 | 5.174-5.599 | 5.385 | 0.005 |
| 8 Trichloroethene | 5.711 | 5.711 | 5.711 | 5.712 | 5.710 | 5.712 | 5.710 | 5.481-5.940 | 5.711 | 0.001 |
| * 7 1,4-Difluorobenzene | 5.746 | 5.745 | 5.745 | 5.747 | 5.745 | 5.746 | 5.745 | 5.515-5.975 | 5.746 | 0.001 |
| \$ 9 d8-Toluene | 6.902 | 6.902 | 6.902 | 6.902 | 6.903 | 6.902 | 6.903 | 6.673-7.133 | 6.902 | 0.000 |
| 10 Tetrachloroethene | 7.259 | 7.259 | 7.258 | 7.259 | 7.260 | 7.258 | 7.260 | 7.030-7.489 | 7.259 | 0.000 |
| 11 1,1,2,2-Tetrachloroethane | 9.446 | 9.458 | 9.445 | 9.446 | 9.447 | 9.445 | 9.447 | 9.217-9.676 | 9.448 | 0.005 |

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181006.d
Report Date: 19-Mar-2010 10:17

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181006.d
Lab Smp Id: 01000318 Client Smp ID: 100 PPT
Inj Date : 18-MAR-2010 04:07
Operator : PC Inst ID: nt7.i
Smp Info : 01000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 04:07 Cal File: 03181006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 24712 | 100.000 | 96.653 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 19861 | 100.000 | 94.627 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 21090 | 100.000 | 91.564 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 22198 | 100.000 | 94.390 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 92044 | 100.000 | 96.316 |
| 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 486706 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 191304 | 1000.00 | 1084.8 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 20696 | 100.000 | 89.713 |
| 8 Trichloroethene | 130 | 5.711 | 5.710 | (0.994) | 23624 | 100.000 | 95.419 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 707128 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 810254 | 1000.00 | 1007.4 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 21840 | 100.000 | 94.849 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.446 | 9.447 | (1.644) | 13923 | 100.000 | 88.694 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Job File ID: 03181006.d
 Job Smp Id: 01000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 100 PPT
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 436713 | 218356 | 873426 | 486706 | 11.45 |
| 7 1,4-Difluorobenzene | 618992 | 309496 | 1237984 | 707128 | 14.24 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenzene | 5.75 | 5.25 | 6.25 | 5.75 | 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: /chem/nt7.i/18MARCH2010.b/03181006.d

Date: 18-MAR-2010 04:07

Client ID: 100 PPT

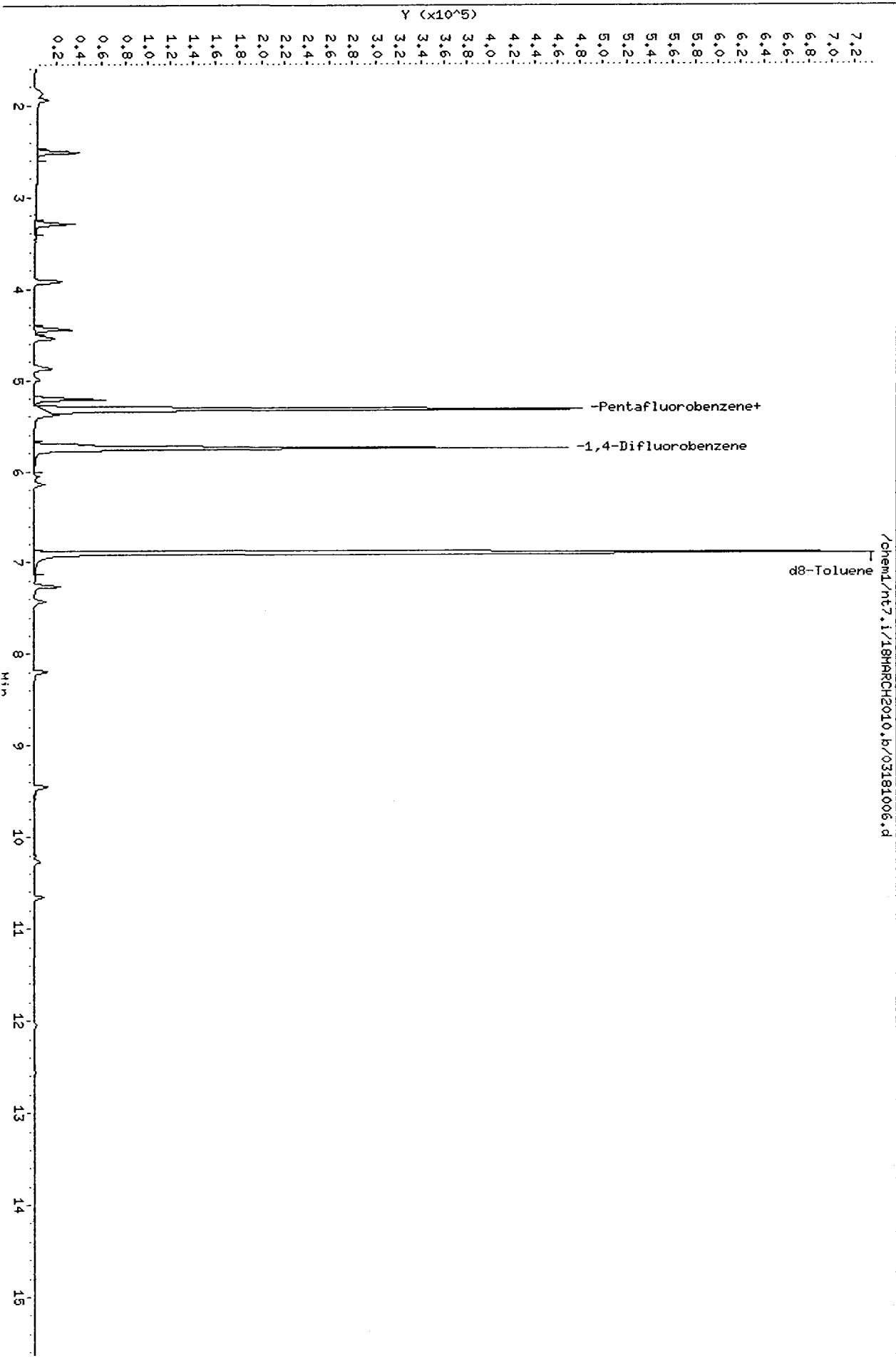
Sample Info: 01000318,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



PK
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181008.d
Report Date: 19-Mar-2010 10:17

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181008.d
Lab Smp Id: 00200318 Client Smp ID: 20 PPT
Inj Date : 18-MAR-2010 05:01
Operator : PC Inst ID: nt7.i
Smp Info : 00200318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:01 Cal File: 03181008.d
Vial bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | | | | | |
|------------------------------|-------|-----|---------|--------|---------|----------|----------------|---------------|
| | | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/L) | ON-COL (ng/L) |
| 1 Vinyl Chloride | 62 | | 1.553 | 1.554 | (0.292) | 4681 | 20.0000 | 18.418 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 4116 | 20.0000 | 19.728 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.295 | 3.295 | (0.620) | 4514 | 20.0000 | 19.715 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 4425 | 20.0000 | 18.928 |
| 6 Benzene | 78 | | 5.210 | 5.210 | (0.907) | 18928 | 20.0000 | 20.667 |
| 4 Pentafluorobenzene | 168 | | 5.316 | 5.316 | (1.000) | 483815 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.327 | 5.328 | (1.002) | 183573 | 1000.00 | 1047.2 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 3668 | 20.0000 | 15.995 |
| 8 Trichloroethene | 130 | | 5.711 | 5.710 | (0.994) | 4832 | 20.0000 | 20.365 |
| 7 1,4-Difluorobenzene | 114 | | 5.745 | 5.745 | (1.000) | 677688 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 773355 | 1000.00 | 1003.3 |
| 10 Tetrachloroethene | 166 | | 7.259 | 7.260 | (1.263) | 4162 | 20.0000 | 18.860 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.458 | 9.447 | (1.646) | 2433 | 20.0000 | 16.172 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181008.d
 Lab Smp Id: 00200318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 20 PPT
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 483815 | 10.79 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 677688 | 9.48 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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/18MARCH2010.b/03181008.d

Date : 18-MAR-2010 05:01

Client ID: 20 PPT

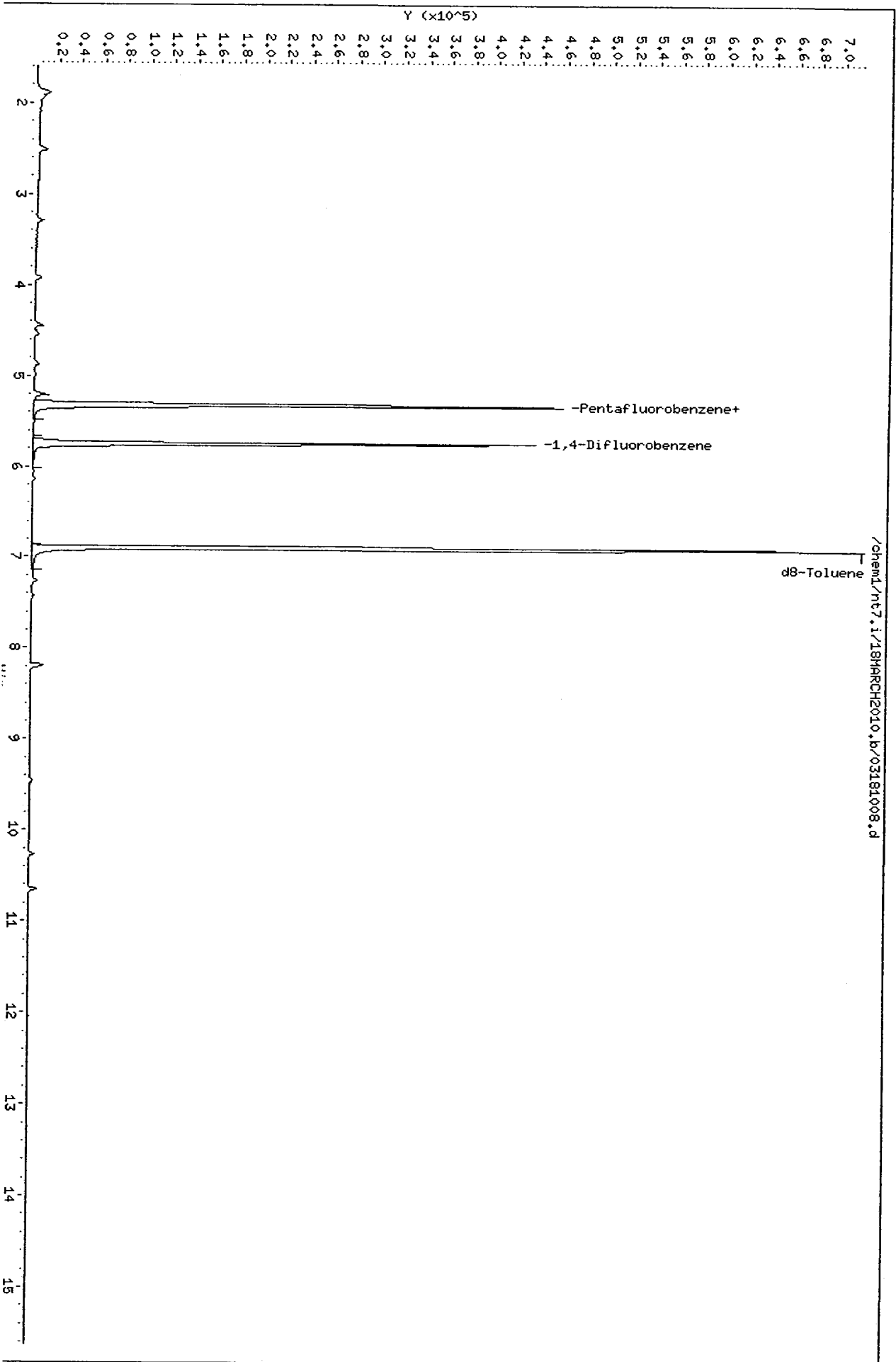
Sample Info: 00200318,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181009.d
Report Date: 19-Mar-2010 10:17

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181009.d
Lab Smp Id: 40000318 Client Smp ID: 4 PPB
Inj Date : 18-MAR-2010 05:27
Operator : PC Inst ID: nt7.i
Smp Info : 40000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:27 Cal File: 03181009.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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) |
| 1 Vinyl Chloride | 62 | | 1.550 | 1.554 | (0.292) | 976919 | 4000.00 | 3973.1 |
| 2 1,1-Dichloroethene | 96 | | 2.520 | 2.519 | (0.474) | 789181 | 4000.00 | 3909.8 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.296 | 3.295 | (0.620) | 873583 | 4000.00 | 3943.9 |
| 3 cis-1,2-dichloroethene | 96 | | 4.447 | 4.446 | (0.836) | 896442 | 4000.00 | 3963.7 |
| 6 Benzene | 78 | | 5.211 | 5.210 | (0.907) | 3489674 | 4000.00 | 3738.3 |
| 4 Pentafluorobenzene | 168 | | 5.317 | 5.316 | (1.000) | 468059 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.328 | (1.002) | 161716 | 1000.00 | 953.58 |
| 176 1,2-Dichloroethane | 62 | | 5.375 | 5.386 | (1.011) | 918031 | 4000.00 | 4138.0 |
| 8 Trichloroethene | 130 | | 5.711 | 5.710 | (0.994) | 931919 | 4000.00 | 3853.4 |
| 7 1,4-Difluorobenzene | 114 | | 5.745 | 5.745 | (1.000) | 690741 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 780321 | 1000.00 | 993.24 |
| 10 Tetrachloroethene | 166 | | 7.258 | 7.260 | (1.263) | 883796 | 4000.00 | 3929.3 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.445 | 9.447 | (1.644) | 650351 | 4000.00 | 4241.2 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181009.d
 Lab Smp Id: 40000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 4 PPB
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 436713 | 218356 | 873426 | 468059 | 7.18 |
| 7 1,4-Difluorobenzene | 618992 | 309496 | 1237984 | 690741 | 11.59 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenzene | 5.75 | 5.25 | 6.25 | 5.75 | 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/18HRCCH2010.b/03181009.d

Date: 18-MAR-2010 05:27

Client ID: 4 PPB

Sample Info: 40000318,10,10,0

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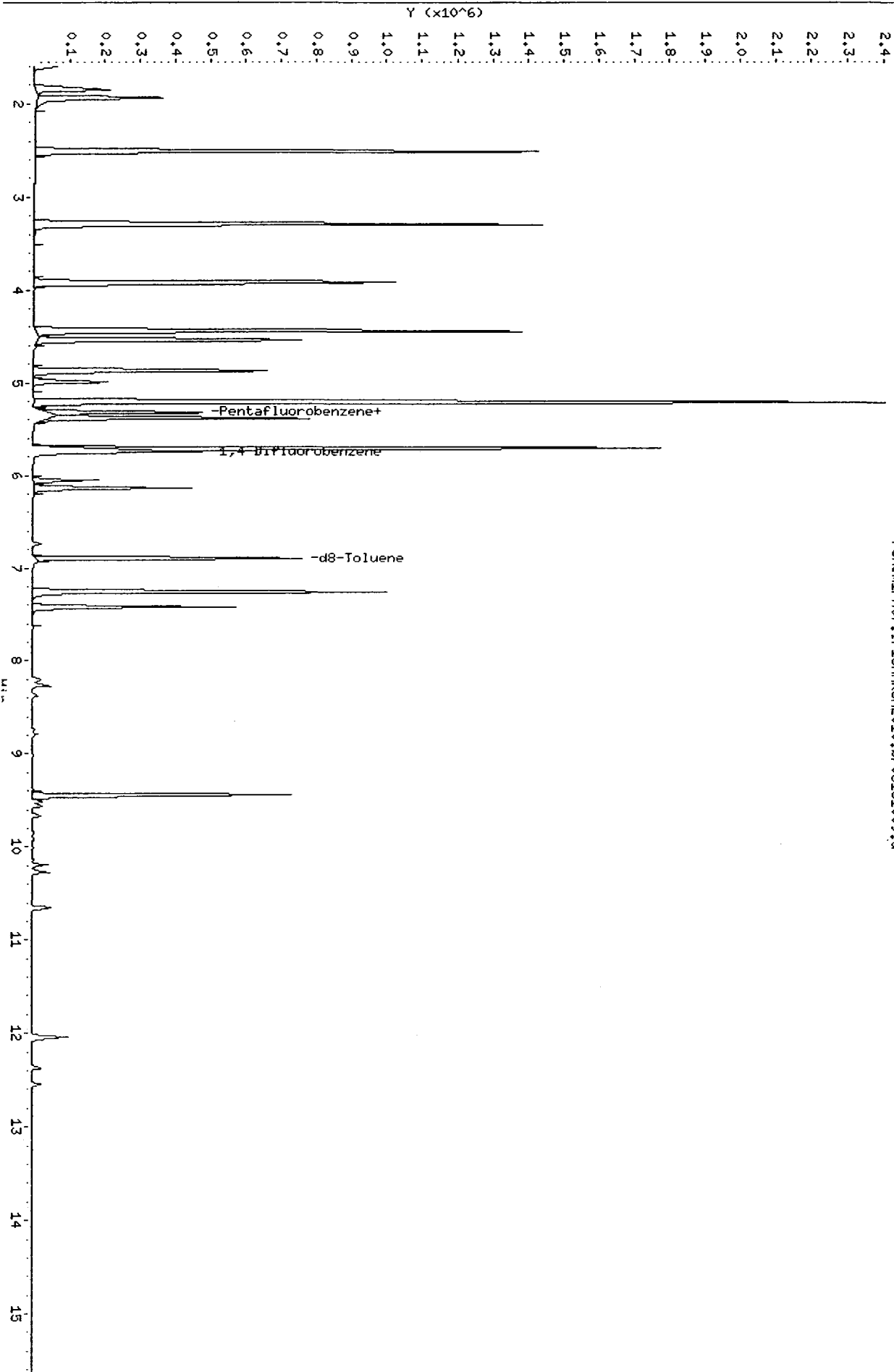
Instrument: nt7.i

Operator: PC

Column diameter: 0.18

Column phase: RTXVHS

/chem1/nt7.i/18HRCCH2010.b/03181009.d



PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181010.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181010.d
Lab Smp Id: 20000318 Client Smp ID: 2 PPB
Inj Date : 18-MAR-2010 05:54
Operator : PC Inst ID: nt7.i
Smp Info : 20000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 05:54 Cal File: 03181010.d
Vials bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000 Compound Sublist: all.sub
Integrator: HP RTE
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

| Name | Value | Description |
|------|----------|--------------------|
| DF | 1.00000 | Dilution Factor |
| Pv | 10.00000 | Purge Volume (mL) |
| Sa | 10.00000 | Sample Amount (mL) |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | AMOUNTS | | | | | | |
|------------------------------|-----------|---------|-------|--------|---------|----------|-----------------|----------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/L) | ON-COL (ng/L) |
| 1 Vinyl Chloride | 62 | | 1.551 | 1.554 | (0.292) | 493762 | 2000.00 | 2120.3 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 400081 | 2000.00 | 2092.8 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.295 | 3.295 | (0.620) | 440559 | 2000.00 | 2100.0 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 454814 | 2000.00 | 2123.3 |
| 6 Benzene | 78 | | 5.210 | 5.210 | (0.907) | 1807019 | 2000.00 | 2035.5 |
| 4 Pentafluorobenzene | 168 | | 5.316 | 5.316 | (1.000) | 443296 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.327 | 5.328 | (1.002) | 156841 | 1000.00 | 976.49 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 471238 | 2000.00 | 2242.8 |
| 8 Trichloroethene | 130 | | 5.712 | 5.710 | (0.994) | 473069 | 2000.00 | 2056.9 |
| 7 1,4-Difluorobenzene | 114 | | 5.747 | 5.745 | (1.000) | 656889 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 747607 | 1000.00 | 1000.6 |
| 10 Tetrachloroethene | 166 | | 7.259 | 7.260 | (1.263) | 445404 | 2000.00 | 2082.3 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.446 | 9.447 | (1.644) | 329981 | 2000.00 | 2262.9 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181010.d
 Lab Smp Id: 20000318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 2 PPB
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 443296 | 1.51 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 656889 | 6.12 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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/18MARCH2010.b/03181010.d

Date: 18-MAR-2010 05:54

Client ID: 2 PPG

Sample Info: 20000318.10.10.0

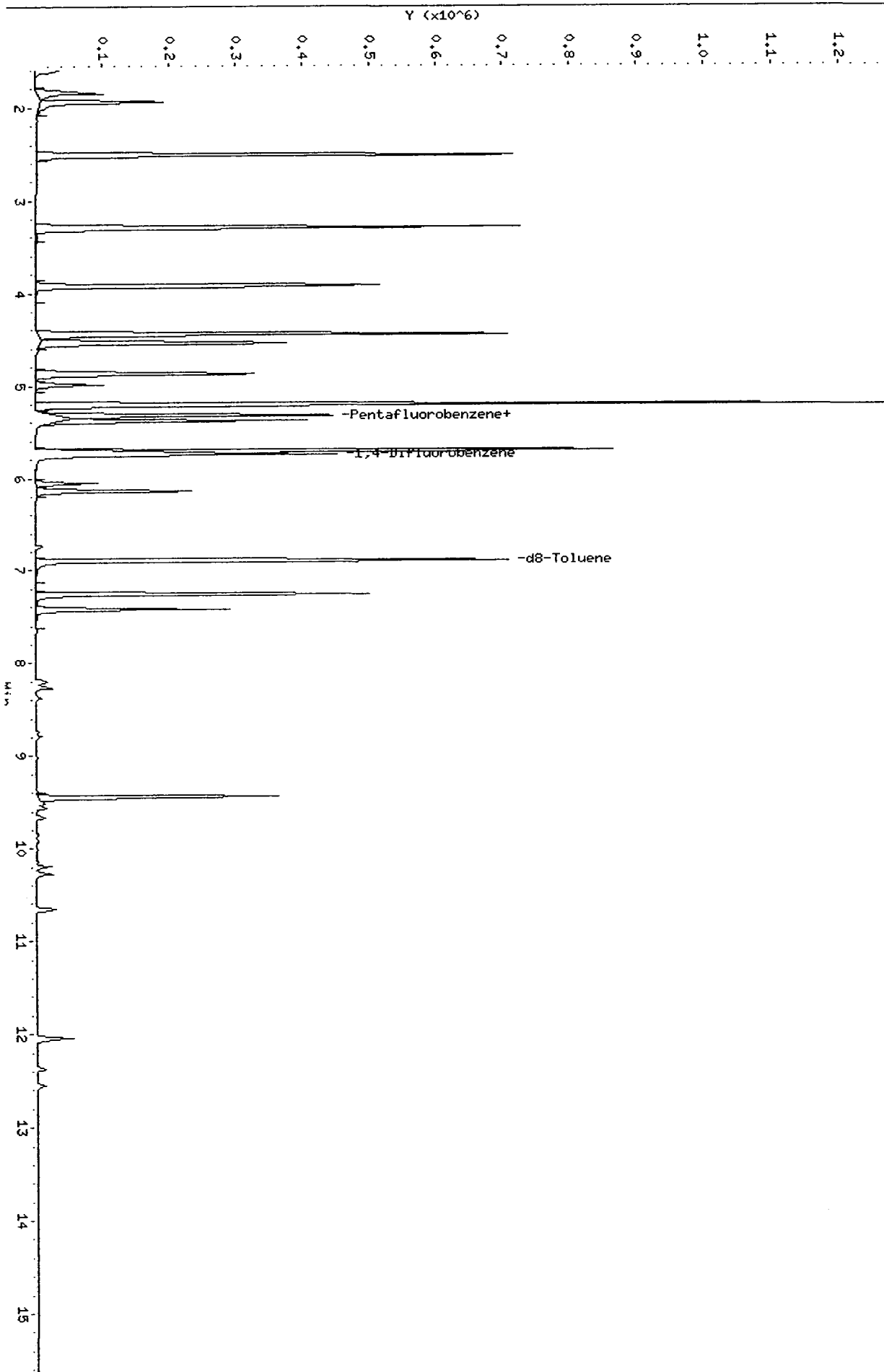
Column phase: RTXVMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18

/chem1/nt7.i/18MARCH2010.b/03181010.d



RS
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Data File: /chem1/nt7.i/18MARCH2010.b/03181011.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181011.d
Lab Smp Id: 10000318 Client Smp ID: 1 PPB
Inj Date : 18-MAR-2010 06:21
Operator : PC Inst ID: nt7.i
Smp Info : 10000318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:21 Cal File: 03181011.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 235013 | 1000.00 | 1024.4 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 189863 | 1000.00 | 1008.2 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 211872 | 1000.00 | 1025.2 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 216688 | 1000.00 | 1026.9 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 869551 | 1000.00 | 1039.5 |
| * 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 436713 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 148341 | 1000.00 | 937.49 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 221082 | 1000.00 | 1068.1 |
| 8 Trichloroethene | 130 | 5.710 | 5.710 | (0.994) | 224768 | 1000.00 | 1037.1 |
| * 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 618992 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.202) | 702212 | 1000.00 | 997.42 |
| 10 Tetrachloroethene | 166 | 7.260 | 7.260 | (1.264) | 214273 | 1000.00 | 1063.1 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.447 | 9.447 | (1.644) | 151420 | 1000.00 | 1101.9 |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03181011.d
Lab Smp Id: 10000318
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
Disc Info: 10-

Calibration Date: 18-MAR-2010
Calibration Time: 06:21
Client Smp ID: 1 PPB
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 436713 | 0.00 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 618992 | 0.00 |

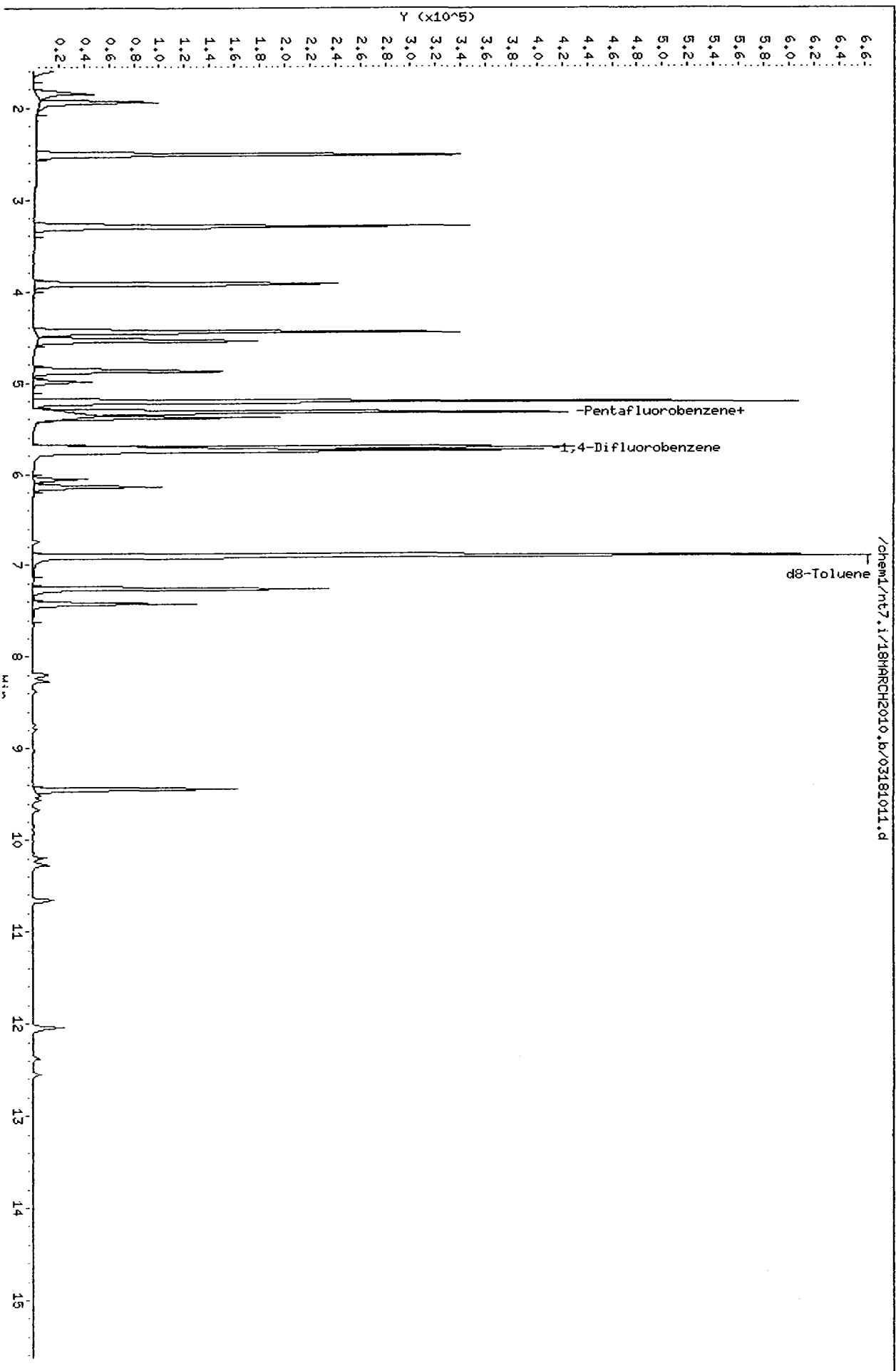
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 0.00 |

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/18MARCH2010.b/03181011.d
Date: 18-MAR-2010 06:21
Client ID: 1 PPB
Sample Infe: 10000318.10,10,0

Column phase: RTXVHS

Instrument: nt7.i
Operator: PC
Column diameter: 0.18



PC
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Data File: /chem1/nt7.i/18MARCH2010.b/03181012.d
Report Date: 19-Mar-2010 10:17

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Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181012.d
 Lab Smp Id: 05000318 Client Smp ID: 500 PPT
 Inj Date : 18-MAR-2010 06:47
 Operator : PC Inst ID: nt7.i
 Smp Info : 05000318,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | | 1.553 | 1.554 | (0.292) | 112959 | 500.000 | 517.39 |
| 2 1,1-Dichloroethene | 96 | | 2.520 | 2.519 | (0.474) | 92775 | 500.000 | 517.65 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.296 | 3.295 | (0.620) | 102023 | 500.000 | 518.73 |
| 3 cis-1,2-dichloroethene | 96 | | 4.447 | 4.446 | (0.836) | 103442 | 500.000 | 515.11 |
| 6 Benzene | 78 | | 5.211 | 5.210 | (0.907) | 420837 | 500.000 | 505.85 |
| 4 Pentafluorobenzene | 168 | | 5.317 | 5.316 | (1.000) | 415601 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | | 5.328 | 5.328 | (1.002) | 150644 | 1000.00 | 1000.4 |
| 176 1,2-Dichloroethane | 62 | | 5.387 | 5.386 | (1.013) | 106291 | 500.000 | 539.58 |
| 8 Trichloroethene | 130 | | 5.712 | 5.710 | (0.994) | 107622 | 500.000 | 499.33 |
| 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 615588 | 1000.00 | |
| 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 698699 | 1000.00 | 997.92 |
| 10 Tetrachloroethene | 166 | | 7.258 | 7.260 | (1.263) | 102427 | 500.000 | 510.98 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.445 | 9.447 | (1.644) | 69063 | 500.000 | 505.38 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

| | |
|---|-------------------------------|
| Instrument ID: nt7.i | Calibration Date: 18-MAR-2010 |
| Lab File ID: 03181012.d | Calibration Time: 06:21 |
| Lab Smp Id: 05000318 | Client Smp ID: 500 PPT |
| Analysis Type: VOA | Level: LOW |
| Quant Type: ISTD | Sample Type: WATER |
| Operator: PC | |
| Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m | |
| Disc Info: 10- | |

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 415601 | -4.83 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 615588 | -0.55 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: /chem1/nt7.i/18MARCH2010.b/03181012.d

Date : 18-MAR-2010 06:47

Client ID: 500 PPT

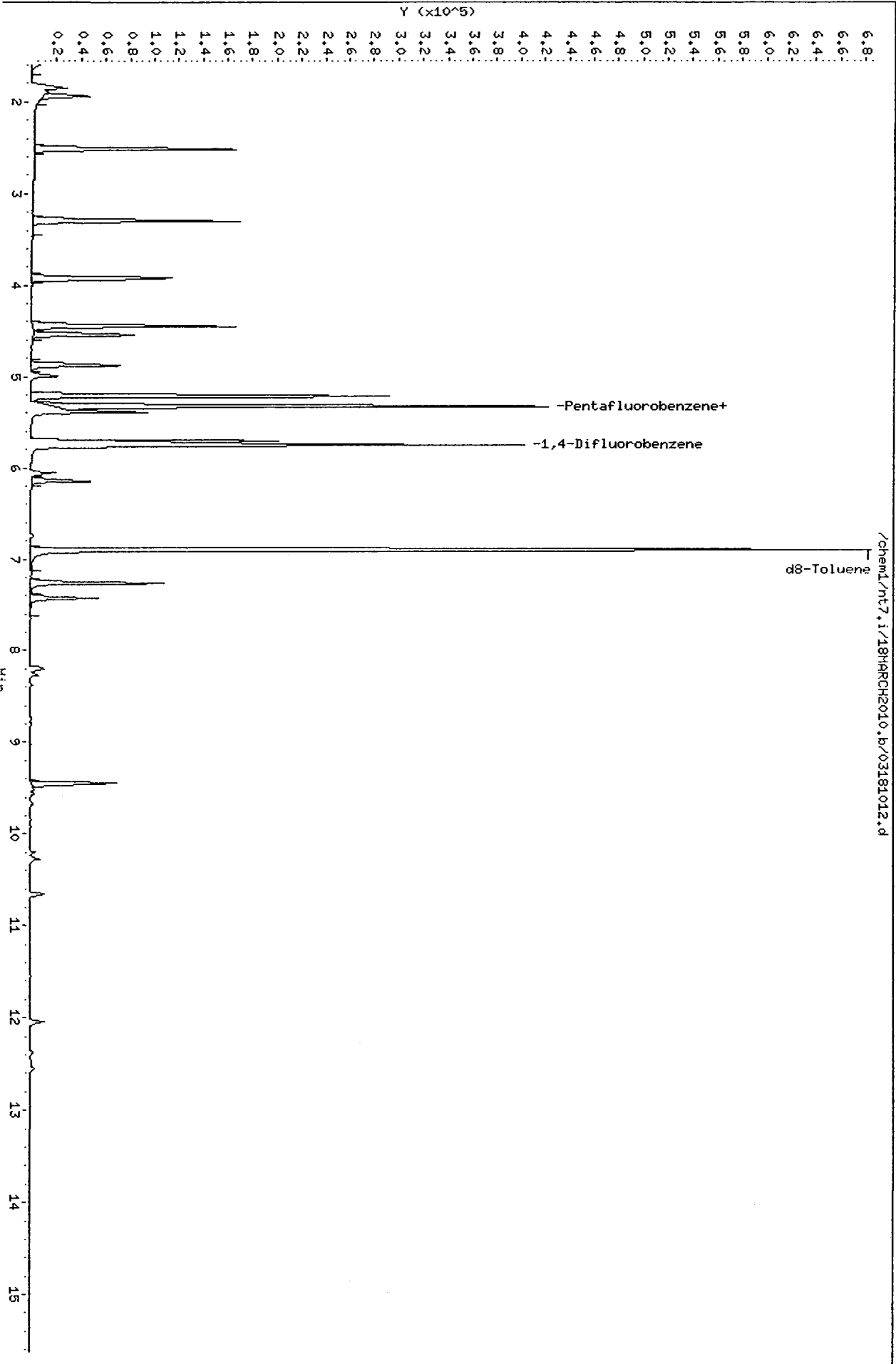
Sample Info: 05000318,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181013.d
Report Date: 19-Mar-2010 10:17

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181013.d
Lab Smp Id: icv0318 Client Smp ID: icv0318
Inj Date : 18-MAR-2010 07:14
Operator : PC Inst ID: nt7.i
Smp Info : icv0318,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Vls bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 217111 | 1008.81 | 1008.8 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.474) | 175819 | 995.184 | 995.18 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 201746 | 1040.58 | 1040.6 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.836) | 210840 | 1065.09 | 1065.1 |
| 6 Benzene | 78 | 5.210 | 5.210 | (0.907) | 859471 | 1035.47 | 1035.5 |
| 4 Pentafluorobenzene | 168 | 5.316 | 5.316 | (1.000) | 409680 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 146516 | 987.058 | 987.06 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.013) | 219876 | 1132.32 | 1132.3 |
| 8 Trichloroethene | 130 | 5.712 | 5.710 | (0.994) | 224489 | 1043.95 | 1043.9 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 614179 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.201) | 699132 | 1000.83 | 1000.8 |
| 10 Tetrachloroethene | 166 | 7.260 | 7.260 | (1.263) | 213067 | 1065.37 | 1065.4 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.447 | 9.447 | (1.644) | 148477 | 1088.99 | 1089.0 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181013.d
 Lab Smp Id: icv0318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Disc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: icv0318
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 409680 | -6.19 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 614179 | -0.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 18MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: icv0318 Client Smp ID: icv0318
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 1008.8 | 100.88 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1132.3 | 113.23 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1040.6 | 104.06 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 995.18 | 99.52 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1065.1 | 106.51 | 76-127 |
| 6 Benzene | 1000.0 | 1035.5 | 103.55 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1043.9 | 104.39 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1065.4 | 106.54 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1089.0 | 108.90 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 987.06 | 98.71 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1000.8 | 100.08 | 60-140 |

Data File: /chem1/nt7.i/18MARCH2010.b/03181013.d

Date : 18-MAR-2010 07:14

Client ID: icv0318

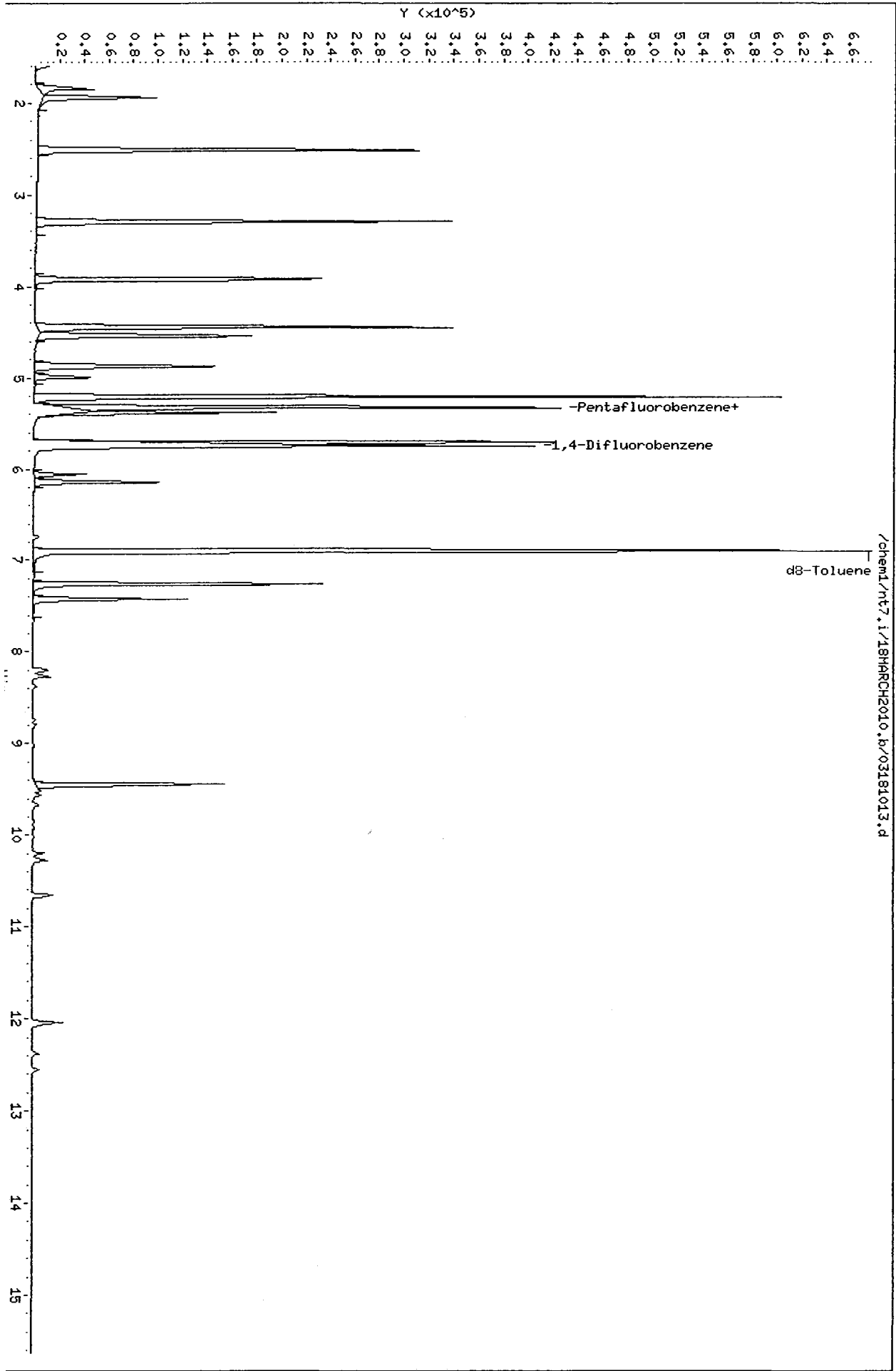
Sample Info: icv0318,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



/chem1/nt7.i/18MARCH2010.b/03181013.d

NOT USED
 IS FAILURE
 Page 1
 KC
 3/19/10

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/18MARCH2010.b/03181007.d
 Lab Smp Id: 00500318 Client Smp ID: 50 PPT
 Inj Date : 18-MAR-2010 04:34
 Operator : PC Inst ID: nt7.i
 Smp Info : 00500318,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Meth Date : 19-Mar-2010 10:16 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 04:34 Cal File: 03181007.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | 1.554 | (0.292) | 11141 | 50.0000 | 100.57 |
| 2 1,1-Dichloroethene | 96 | 2.520 | 2.519 | (0.474) | 9588 | 50.0000 | 105.43 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.295 | (0.620) | 9430 | 50.0000 | 94.492 |
| 3 cis-1,2-dichloroethene | 96 | 4.447 | 4.446 | (0.836) | 10245 | 50.0000 | 100.54 |
| 6 Benzene | 78 | 5.211 | 5.210 | (0.907) | 42374 | 50.0000 | 106.56 |
| 4 Pentafluorobenzene | 168 | 5.317 | 5.316 | (1.000) | 210878 | 1000.00 | |
| 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.328 | (1.002) | 76125 | 1000.00 | 996.32 |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.013) | 10268 | 50.0000 | 102.73 |
| 8 Trichloroethene | 130 | 5.712 | 5.710 | (0.994) | 10972 | 50.0000 | 106.50 |
| 7 1,4-Difluorobenzene | 114 | 5.746 | 5.745 | (1.000) | 294252 | 1000.00 | |
| 9 d8-Toluene | 98 | 6.902 | 6.903 | (1.201) | 334875 | 1000.00 | 1000.6 |
| 10 Tetrachloroethene | 166 | 7.259 | 7.260 | (1.263) | 9990 | 50.0000 | 104.26 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.457 | 9.447 | (1.646) | 6166 | 50.0000 | 94.394 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 03181007.d
 Lab Smp Id: 00500318
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/18MARCH2010.b/sim031810.m
 Disc Info: 10-

Calibration Date: 18-MAR-2010
 Calibration Time: 06:21
 Client Smp ID: 50 PPT
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-----------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 210878 | -51.71 <- |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 294252 | -52.46 <- |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.01 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 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: /chem1/n7.i/18MARCH2010.b/03181007.d

Date : 18-MAR-2010 04:34

Client ID: 50 PPT

Sample Info: 00500318,10,10,0

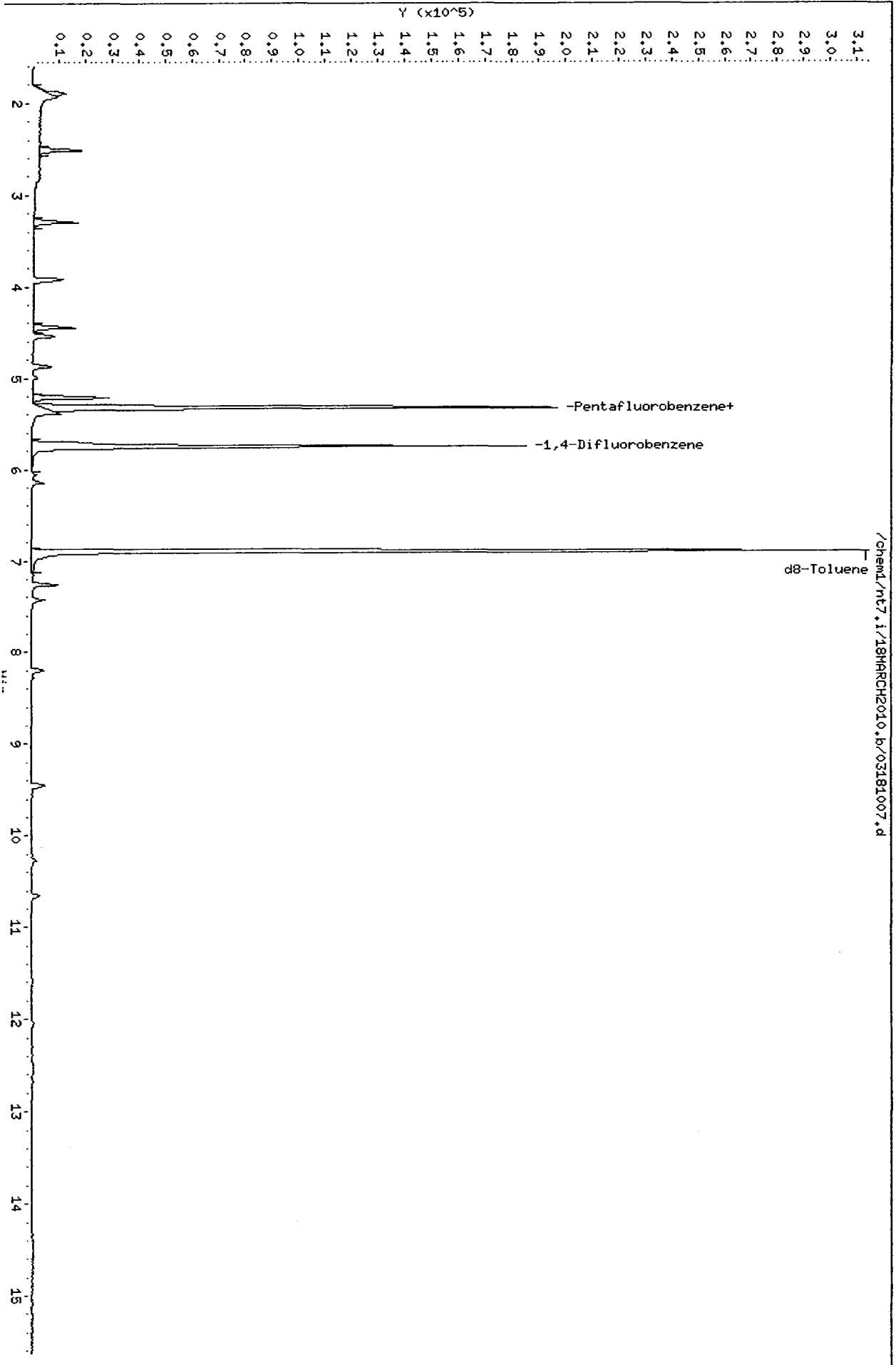
Column phase: RTXVHS

Instrument: n7.i

Operator: PC

Column diameter: 0.18

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN31

Project: LORA LAKES APARTMENTS

Instrument ID: NT7

Cont. Calib. Date: 03/19/10

Init. Calib. Date: 03/18/10

Cont. Calib. Time: 0123

| COMPOUND | CalAmt or ARF | CC Amt 1000 | MIN RRF | CURVE TYPE | %D or Drift |
|---------------------------|------------------|----------------|------------|---------------|----------------|
| Vinyl Chloride | 0.526 | 0.476 | 0.010 | AVRG | -9.5 |
| 1,1-Dichloroethene | 0.431 | 0.391 | 0.010 | AVRG | -9.3 |
| cis-1,2-dichloroethene | 0.483 | 0.438 | 0.010 | AVRG | -9.3 |
| Benzene | 1.351 | 1.211 | 0.010 | AVRG | -10.4 |
| Trichloroethene | 0.350 | 0.314 | 0.010 | AVRG | -10.3 |
| Tetrachloroethene | 0.326 | 0.303 | 0.010 | AVRG | -7.0 |
| 1,1,2,2-Tetrachloroethane | 0.222 | 0.207 | 0.300 | AVRG | -6.8 * |
| Trans-1,2-Dichloroethene | 0.473 | 0.431 | 0.010 | AVRG | -8.9 |
| 1,2-Dichloroethane | 0.474 | 0.450 | 0.010 | AVRG | -5.1 |
| d4-1,2-Dichloroethane | 0.362 | 0.351 | 0.010 | AVRG | -3.0 |
| d8-Toluene | 1.137 | 1.125 | 0.010 | AVRG | -1.0 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

QN31 : 00389

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191002.d
Report Date: 22-Mar-2010 15:23

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191002.d
Lab Smp Id: CC0319 Client Smp ID: CC0319
Inj Date : 19-MAR-2010 01:23
Operator : PC Inst ID: nt7.i
Smp Info : CC0319,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:22 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | | | | | |
|------------------------------|-------|-----|---------|--------|---------|----------|--------------------|-------------------|
| | | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/L) | ON-COL (ng/L) |
| 1 Vinyl Chloride | 62 | | 1.553 | 1.553 | (0.292) | 216795 | 1000.00 | 906.43 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 178145 | 1000.00 | 907.34 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.294 | 3.294 | (0.620) | 196149 | 1000.00 | 910.37 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 199261 | 1000.00 | 905.77 |
| 6 Benzene | 78 | | 5.209 | 5.209 | (0.907) | 804116 | 1000.00 | 895.94 |
| * 4 Pentafluorobenzene | 168 | | 5.315 | 5.315 | (1.000) | 455287 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.327 | 5.327 | (1.002) | 159762 | 1000.00 | 968.48 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 205000 | 1000.00 | 949.96 |
| 8 Trichloroethene | 130 | | 5.711 | 5.711 | (0.994) | 208598 | 1000.00 | 897.12 |
| * 7 1,4-Difluorobenzene | 114 | | 5.745 | 5.745 | (1.000) | 664111 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.903 | 6.903 | (1.202) | 746969 | 1000.00 | 988.91 |
| 10 Tetrachloroethene | 166 | | 7.260 | 7.260 | (1.264) | 201420 | 1000.00 | 931.41 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.447 | 9.447 | (1.644) | 137333 | 1000.00 | 931.53 |

QN31 : 00390

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191002.d
Lab Smp Id: CC0319
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CC0319
Level: LOW
Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 455287 | 4.25 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 664111 | 7.29 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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.

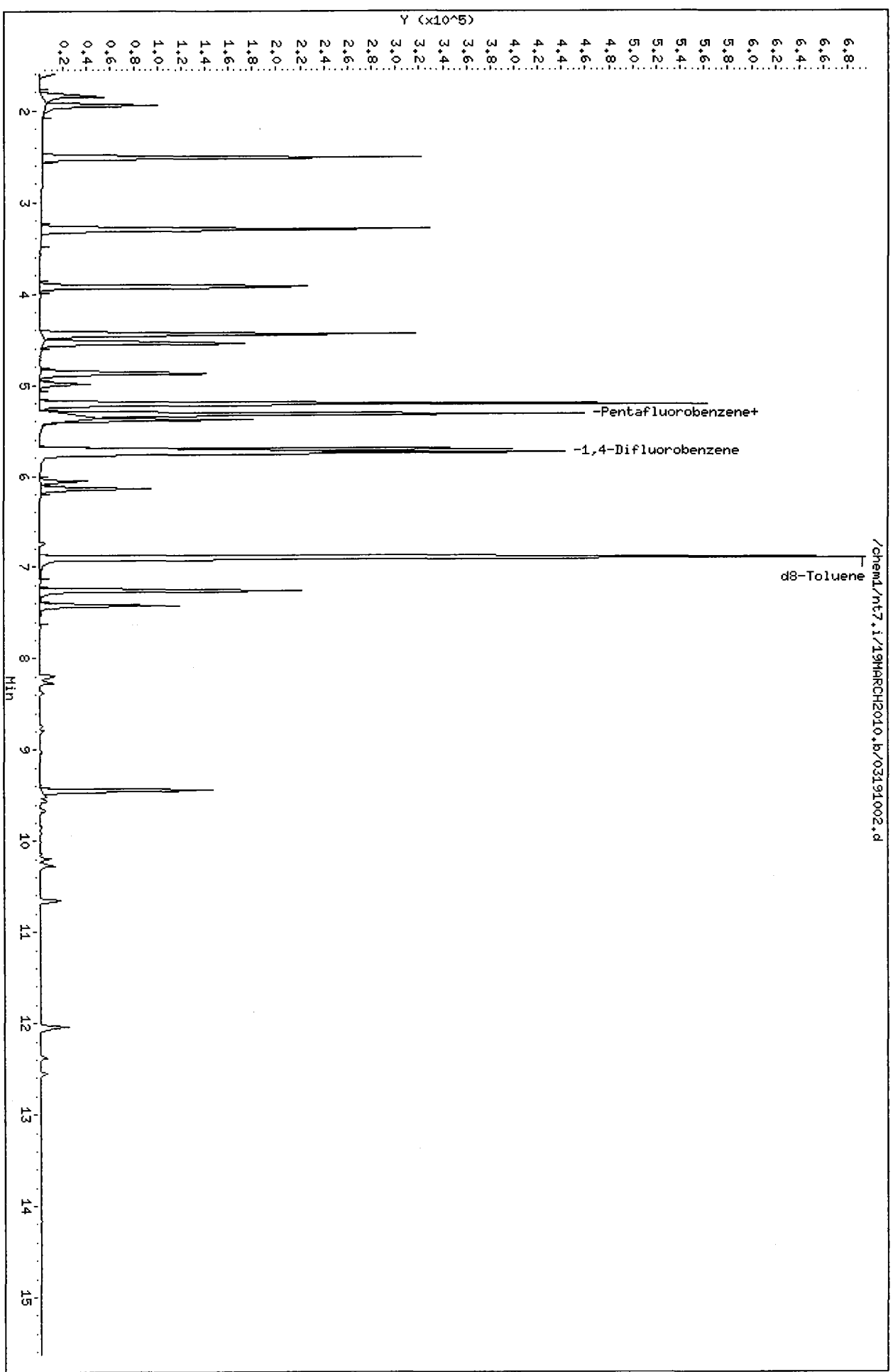
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt7.i Injection Date: 19-MAR-2010 01:23
 Lab File ID: 03191002.d Init. Cal. Date(s): 18-MAR-2010 18-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 04:07 06:47
 Lab Sample ID: CC0319 Quant Type: ISTD
 Method: /chem1/nt7.i/19MARCH2010.b/sim031810.m

| COMPOUND | RRF / AMOUNT | | MIN | | MAX | | CURVE TYPE |
|------------------------------|--------------|---------|--------|-----------|-------------|-------------|------------|
| | RRF | AMOUNT | RF1000 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 1 Vinyl Chloride | 0.52532 | 0.47617 | 0.100 | -9.35657 | 20.00000 | Averaged | |
| 2 1,1-Dichloroethene | 0.43124 | 0.39128 | 0.100 | -9.26582 | 20.00000 | Averaged | |
| 175 Trans-1,2-Dichloroethene | 0.47324 | 0.43082 | 0.100 | -8.96305 | 20.00000 | Averaged | |
| 3 cis-1,2-dichloroethene | 0.48319 | 0.43766 | 0.100 | -9.42347 | 20.00000 | Averaged | |
| 6 Benzene | 1.35145 | 1.21082 | 0.100 | -10.40598 | 20.00000 | Averaged | |
| \$ 5 d4-1,2-Dichloroethane | 0.36232 | 0.35090 | 0.100 | -3.15196 | 20.00000 | Averaged | |
| 176 1,2-Dichloroethane | 0.47398 | 0.45027 | 0.100 | -5.00388 | 20.00000 | Averaged | |
| 8 Trichloroethene | 0.35012 | 0.31410 | 0.100 | -10.28835 | 20.00000 | Averaged | |
| \$ 9 d8-Toluene | 1.13737 | 1.12477 | 0.100 | -1.10865 | 20.00000 | Averaged | |
| 10 Tetrachloroethene | 0.32563 | 0.30329 | 0.100 | -6.85917 | 20.00000 | Averaged | |
| 11 1,1,2,2-Tetrachloroethane | 0.22199 | 0.20679 | 0.100 | -6.84739 | 20.00000 | Averaged | |

Data File: /chem1/nt7.1/19MARCH2010.b/03191002.d
Date: 19-MAR-2010 01:23
Client ID: CC0319
Sample Info: CC0319,10,10.0
Column phase: RTXVMS

Instrument: nt7.1
Operator: PC
Column diameter: 0.18



SIM Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

PC
3/19/10

Data File: /chem1/nt7.i/18MARCH2010.b/03181001.d

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Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

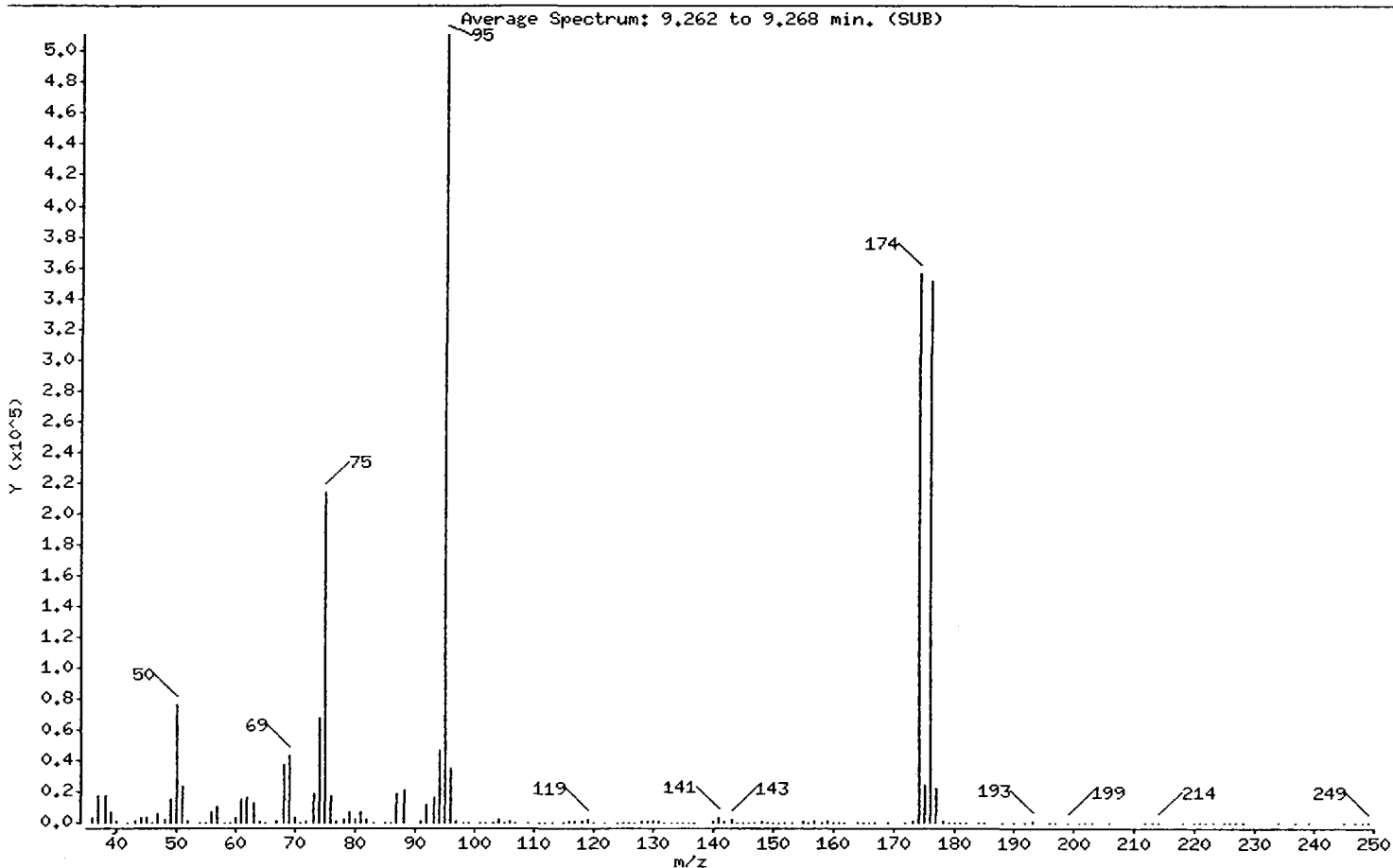
Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 15.00 |
| 75 | 30.00 - 66.00% of mass 95 | 41.84 |
| 96 | 5.00 - 9.00% of mass 95 | 6.87 |
| 173 | Less than 2.00% of mass 174 | 0.23 (0.34) |
| 174 | 50.00 - 101.00% of mass 95 | 69.56 |
| 175 | 4.00 - 9.00% of mass 174 | 4.94 (7.10) |
| 176 | 93.00 - 101.00% of mass 174 | 68.65 (98.70) |
| 177 | 5.00 - 9.00% of mass 176 | 4.38 (6.38) |

Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03181001.d

Spectrum: Average Spectrum: 9.262 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 160

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|------|--------|-----|
| 36.00 | 3271 | 80.00 | 2333 | 130.00 | 1288 | 178.00 | 859 |
| 37.00 | 18080 | 81.00 | 7251 | 131.00 | 870 | 179.00 | 248 |
| 38.00 | 17640 | 82.00 | 1932 | 132.00 | 88 | 180.00 | 77 |
| 39.00 | 6485 | 83.00 | 485 | 133.00 | 190 | 181.00 | 63 |
| 40.00 | 760 | 85.00 | 146 | 134.00 | 197 | 182.00 | 61 |
| 42.00 | 479 | 86.00 | 445 | 135.00 | 489 | 184.00 | 185 |
| 43.00 | 635 | 87.00 | 18224 | 136.00 | 185 | 185.00 | 70 |
| 44.00 | 3064 | 88.00 | 21216 | 137.00 | 229 | 188.00 | 141 |
| 45.00 | 4085 | 91.00 | 750 | 140.00 | 726 | 190.00 | 223 |
| 46.00 | 192 | 92.00 | 11285 | 141.00 | 3175 | 192.00 | 75 |
| 47.00 | 5689 | 93.00 | 16285 | 142.00 | 665 | 193.00 | 895 |
| 48.00 | 2711 | 94.00 | 47400 | 143.00 | 2722 | 196.00 | 174 |
| 49.00 | 14921 | 95.00 | 511040 | 144.00 | 175 | 197.00 | 155 |
| 50.00 | 76672 | 96.00 | 35104 | 145.00 | 550 | 199.00 | 510 |
| 51.00 | 22936 | 97.00 | 1143 | 146.00 | 368 | 201.00 | 54 |
| 52.00 | 1001 | 98.00 | 226 | 147.00 | 353 | 202.00 | 72 |
| 54.00 | 165 | 99.00 | 123 | 148.00 | 1390 | 203.00 | 119 |
| 55.00 | 290 | 101.00 | 119 | 149.00 | 375 | 206.00 | 340 |
| 56.00 | 6704 | 102.00 | 95 | 150.00 | 77 | 212.00 | 242 |
| 57.00 | 10162 | 103.00 | 284 | 151.00 | 266 | 213.00 | 82 |
| 58.00 | 82 | 104.00 | 2356 | 152.00 | 515 | 214.00 | 292 |
| 59.00 | 488 | 105.00 | 238 | 153.00 | 522 | 218.00 | 57 |
| 60.00 | 3987 | 106.00 | 1148 | 155.00 | 1165 | 220.00 | 57 |
| 61.00 | 15800 | 107.00 | 289 | 156.00 | 195 | 221.00 | 67 |
| 62.00 | 16920 | 109.00 | 311 | 157.00 | 833 | 222.00 | 55 |
| 63.00 | 12379 | 111.00 | 472 | 158.00 | 129 | 223.00 | 55 |
| 64.00 | 1418 | 112.00 | 407 | 159.00 | 752 | 225.00 | 110 |
| 65.00 | 345 | 113.00 | 28 | 160.00 | 69 | 226.00 | 152 |
| 67.00 | 673 | 115.00 | 508 | 161.00 | 407 | 227.00 | 61 |
| 68.00 | 37824 | 116.00 | 1431 | 162.00 | 203 | 228.00 | 142 |
| 69.00 | 43080 | 117.00 | 1524 | 164.00 | 197 | 234.00 | 279 |
| 70.00 | 3943 | 118.00 | 927 | 165.00 | 168 | 237.00 | 237 |
| 71.00 | 319 | 119.00 | 2137 | 166.00 | 67 | 239.00 | 68 |
| 72.00 | 1575 | 120.00 | 135 | 167.00 | 140 | 245.00 | 242 |
| 73.00 | 18296 | 122.00 | 171 | 169.00 | 93 | 247.00 | 61 |

Date : 18-MAR-2010 01:35

Client ID: BFB0318

Instrument: nt7.i

Sample Info: BFB0318

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03181001.d

Spectrum: Average Spectrum: 9.262 to 9.268 min. (SUB)

Location of Maximum: 95.00

Number of points: 160

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|------|--------|--------|--------|-----|
| 74.00 | 68536 | 124.00 | 383 | 172.00 | 106 | 248.00 | 131 |
| 75.00 | 213760 | 125.00 | 237 | 173.00 | 1198 | 249.00 | 582 |
| 76.00 | 17832 | 126.00 | 502 | 174.00 | 355456 | | |
| 77.00 | 1420 | 127.00 | 321 | 175.00 | 25232 | | |
| 78.00 | 2052 | 128.00 | 1555 | 176.00 | 350848 | | |
| 79.00 | 7375 | 129.00 | 662 | 177.00 | 22392 | | |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191001.d

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Date : 19-MAR-2010 00:46

Client ID: BFB0319

Instrument: nt7.i

Sample Info: BFB0319

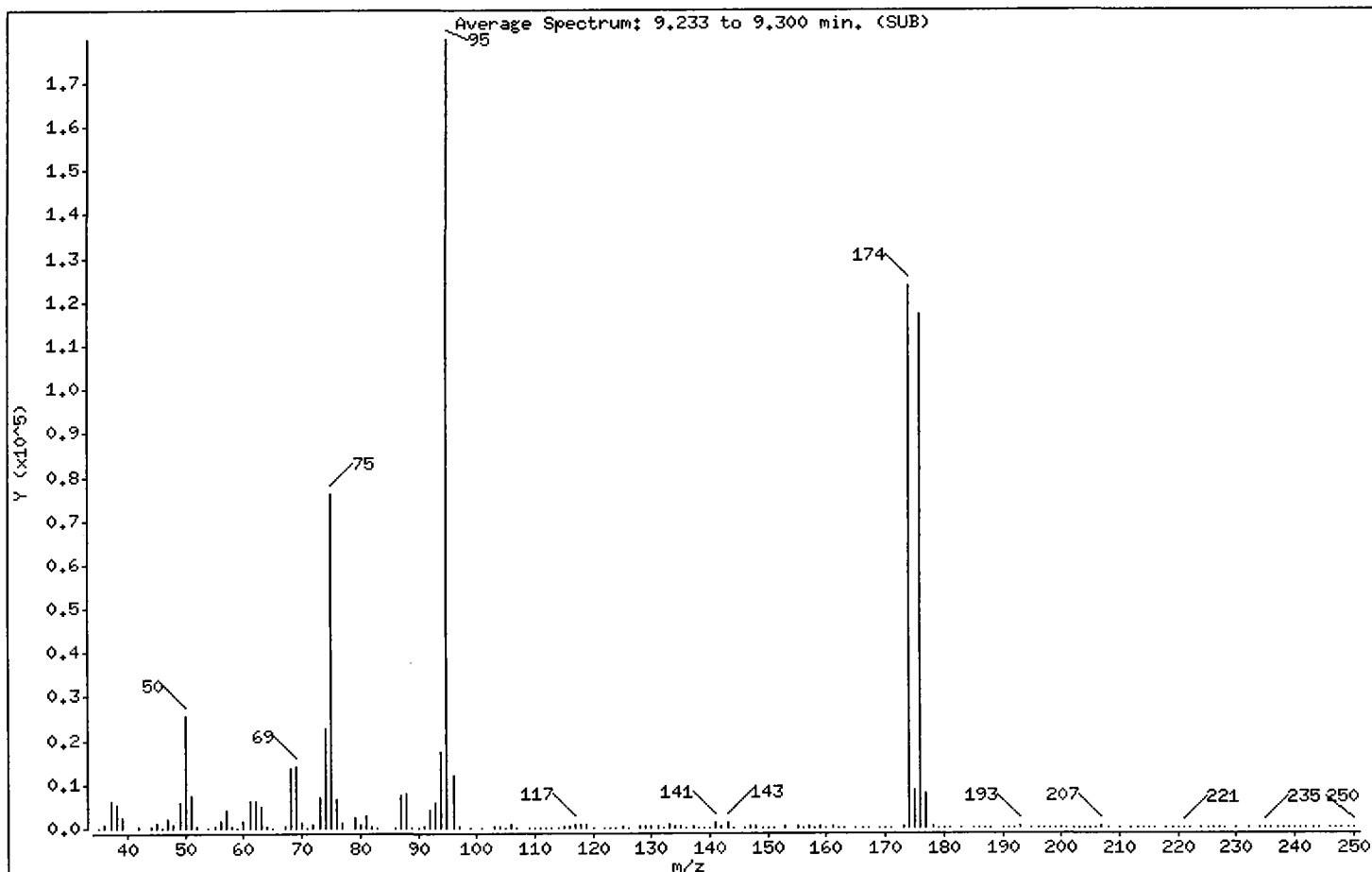
Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 14.25 |
| 75 | 30.00 - 66.00% of mass 95 | 42.35 |
| 96 | 5.00 - 9.00% of mass 95 | 6.76 |
| 173 | Less than 2.00% of mass 174 | 0.34 (0.49) |
| 174 | 50.00 - 101.00% of mass 95 | 68.68 |
| 175 | 4.00 - 9.00% of mass 174 | 4.77 (6.95) |
| 176 | 93.00 - 101.00% of mass 174 | 65.06 (94.74) |
| 177 | 5.00 - 9.00% of mass 176 | 4.44 (6.83) |

Date : 19-MAR-2010 00:46

Client ID: BFB0319

Instrument: nt7.i

Sample Info: BFB0319

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03191001.d

Spectrum: Average Spectrum: 9.233 to 9.300 min. (SUB)

Location of Maximum: 95.00

Number of points: 184

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|--------|--------|-----|
| 35.00 | 59 | 90.00 | 95 | 143.00 | 1135 | 200.00 | 73 |
| 36.00 | 940 | 91.00 | 256 | 144.00 | 173 | 201.00 | 59 |
| 37.00 | 6121 | 92.00 | 4314 | 146.00 | 116 | 202.00 | 54 |
| 38.00 | 5438 | 93.00 | 5614 | 147.00 | 267 | 203.00 | 136 |
| 39.00 | 2403 | 94.00 | 17448 | 148.00 | 421 | 204.00 | 65 |
| 42.00 | 439 | 95.00 | 179904 | 149.00 | 189 | 205.00 | 171 |
| 44.00 | 502 | 96.00 | 12157 | 150.00 | 201 | 206.00 | 79 |
| 45.00 | 1083 | 97.00 | 513 | 151.00 | 163 | 207.00 | 507 |
| 46.00 | 178 | 99.00 | 63 | 153.00 | 221 | 208.00 | 142 |
| 47.00 | 2180 | 101.00 | 64 | 155.00 | 411 | 210.00 | 92 |
| 48.00 | 630 | 103.00 | 233 | 156.00 | 109 | 212.00 | 58 |
| 49.00 | 5586 | 104.00 | 611 | 157.00 | 274 | 213.00 | 99 |
| 50.00 | 25632 | 105.00 | 155 | 158.00 | 125 | 214.00 | 53 |
| 51.00 | 7348 | 106.00 | 648 | 159.00 | 211 | 215.00 | 60 |
| 52.00 | 555 | 107.00 | 152 | 160.00 | 126 | 216.00 | 71 |
| 54.00 | 164 | 109.00 | 141 | 161.00 | 279 | 218.00 | 58 |
| 55.00 | 448 | 110.00 | 190 | 162.00 | 84 | 219.00 | 67 |
| 56.00 | 1605 | 111.00 | 202 | 163.00 | 173 | 220.00 | 96 |
| 57.00 | 3941 | 112.00 | 118 | 165.00 | 132 | 221.00 | 102 |
| 58.00 | 252 | 113.00 | 93 | 166.00 | 175 | 222.00 | 84 |
| 59.00 | 48 | 114.00 | 74 | 167.00 | 87 | 224.00 | 56 |
| 60.00 | 1467 | 115.00 | 397 | 169.00 | 103 | 225.00 | 48 |
| 61.00 | 6290 | 116.00 | 521 | 170.00 | 118 | 226.00 | 48 |
| 62.00 | 6142 | 117.00 | 1023 | 171.00 | 40 | 227.00 | 56 |
| 63.00 | 4812 | 118.00 | 633 | 173.00 | 607 | 228.00 | 51 |
| 64.00 | 463 | 119.00 | 858 | 174.00 | 123576 | 230.00 | 64 |
| 65.00 | 178 | 120.00 | 121 | 175.00 | 8588 | 232.00 | 109 |
| 67.00 | 543 | 122.00 | 103 | 176.00 | 117072 | 234.00 | 76 |
| 68.00 | 13528 | 123.00 | 115 | 177.00 | 7992 | 235.00 | 192 |
| 69.00 | 13994 | 124.00 | 148 | 178.00 | 313 | 236.00 | 75 |
| 70.00 | 1183 | 125.00 | 237 | 179.00 | 145 | 237.00 | 41 |
| 71.00 | 187 | 126.00 | 164 | 180.00 | 105 | 238.00 | 61 |
| 72.00 | 767 | 128.00 | 335 | 181.00 | 126 | 239.00 | 74 |
| 73.00 | 7129 | 129.00 | 359 | 183.00 | 118 | 240.00 | 70 |
| 74.00 | 22832 | 130.00 | 443 | 185.00 | 72 | 241.00 | 60 |

Date : 19-MAR-2010 00:46

Client ID: BFB0319

Instrument: nt7.i

Sample Info: BFB0319

Purge Volume: 5.0

Operator: PC

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03191001.d

Spectrum: Average Spectrum: 9.233 to 9.300 min. (SUB)

Location of Maximum: 95.00

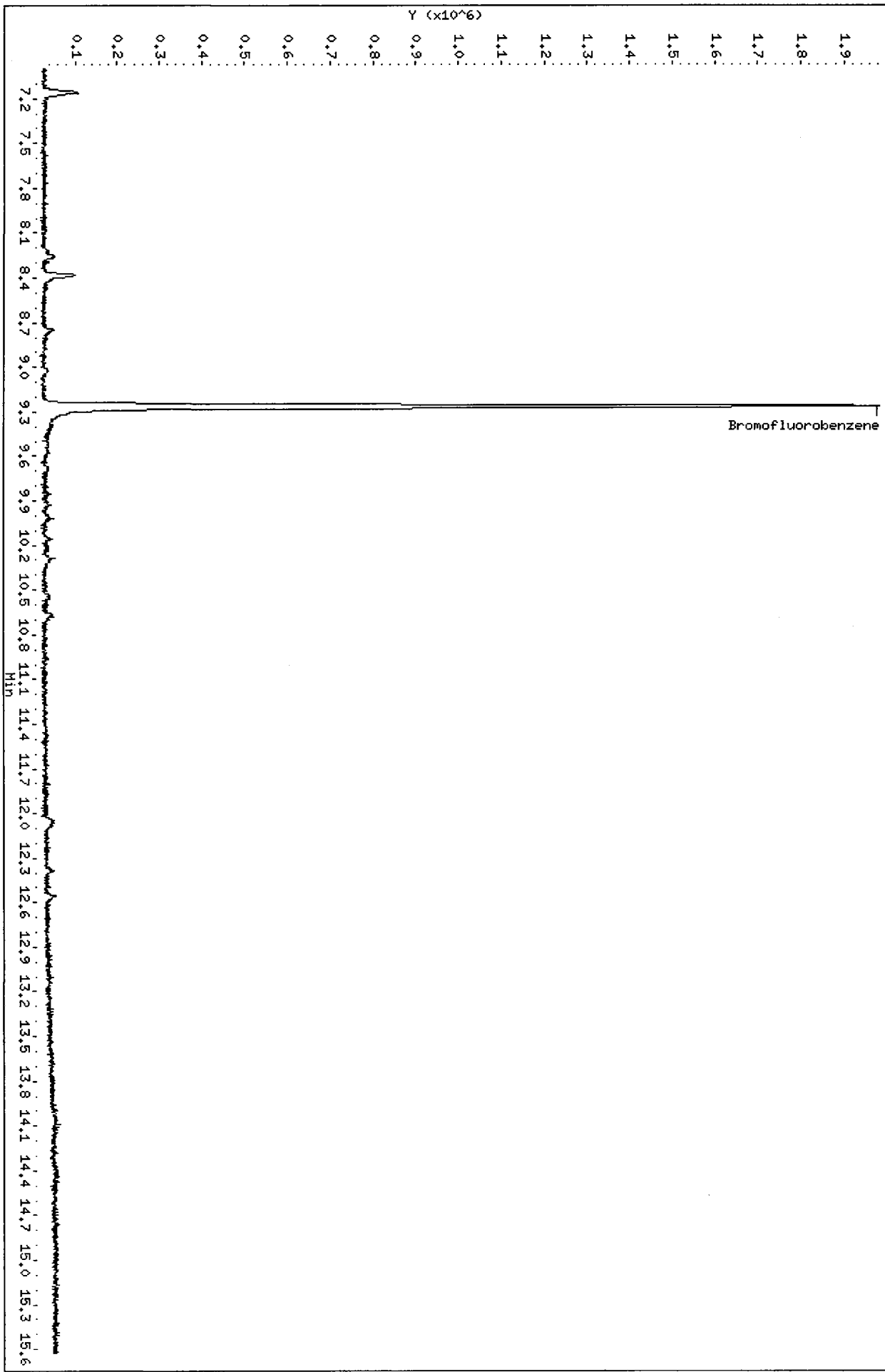
Number of points: 184

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|------|--------|-----|--------|-----|
| 75.00 | 76200 | 131.00 | 391 | 186.00 | 102 | 242.00 | 85 |
| 76.00 | 6696 | 132.00 | 165 | 187.00 | 107 | 243.00 | 68 |
| 77.00 | 1319 | 133.00 | 946 | 188.00 | 75 | 244.00 | 48 |
| 79.00 | 2608 | 134.00 | 249 | 190.00 | 74 | 246.00 | 123 |
| 80.00 | 882 | 135.00 | 209 | 191.00 | 122 | 247.00 | 59 |
| 81.00 | 2696 | 136.00 | 163 | 192.00 | 116 | 248.00 | 79 |
| 82.00 | 608 | 137.00 | 290 | 193.00 | 539 | 249.00 | 169 |
| 83.00 | 17 | 138.00 | 105 | 195.00 | 139 | 250.00 | 25 |
| 86.00 | 159 | 139.00 | 76 | 196.00 | 49 | | |
| 87.00 | 7351 | 140.00 | 145 | 197.00 | 110 | | |
| 88.00 | 7811 | 141.00 | 1135 | 198.00 | 40 | | |
| 89.00 | 109 | 142.00 | 362 | 199.00 | 71 | | |

Data File: /chem1/nt7.i/19MARCH2010.b/03191001.d
Date : 19-MAR-2010 00:46
Client ID: BFB0319
Sample Info: BFB0319
Purge Volume: 5.0
Column phase: RTX502.2

Instrument: nt7.i
Operator: PC
Column diameter: 0.18

/chem1/nt7.i/19MARCH2010.b/03191001.d



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-031910
Page 1 of 1 METHOD BLANK

Lab Sample ID: MB-031910


QC Report No: QN31-Floyd-Snider

LIMS ID: 10-6027

Project: Lora Lakes Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/22/10

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 03/19/10 02:42

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

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

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191005.d
Report Date: 22-Mar-2010 15:23

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191005.d
Lab Smp Id: MB0319 Client Smp ID: MB0319
Inj Date : 19-MAR-2010 02:42
Operator : PC Inst ID: nt7.i
Smp Info : MB0319,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:23 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 5.315 | (1.000) | 428896 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.002) | 164123 | 1056.14 | 1056.1 |
| 176 1,2-Dichloroethane | 62 | | | | | | |
| 8 Trichloroethene | 130 | | | | | | |
| * 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 623454 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.201) | 711949 | 1004.02 | 1004.0 |
| 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: 03191005.d
 Lab Smp Id: MB0319
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-

Calibration Date: 19-MAR-2010
 Calibration Time: 01:23
 Client Smp ID: MB0319
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 428896 | -1.79 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 623454 | 0.72 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.01 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: Client SDG: 19MARCH2010
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0319 Client Smp ID: MB0319
Level: LOW Operator: PC
Data Type: MS DATA SampleType: BLANK
SpikeList File: sim.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1056.1 | 105.61 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1004.0 | 100.40 | 60-140 |

Data File: /chem1/nt7.1/19HARCH2010.b/03191005.d

Date: 19-HAR-2010 02:42

Client ID: HB0319

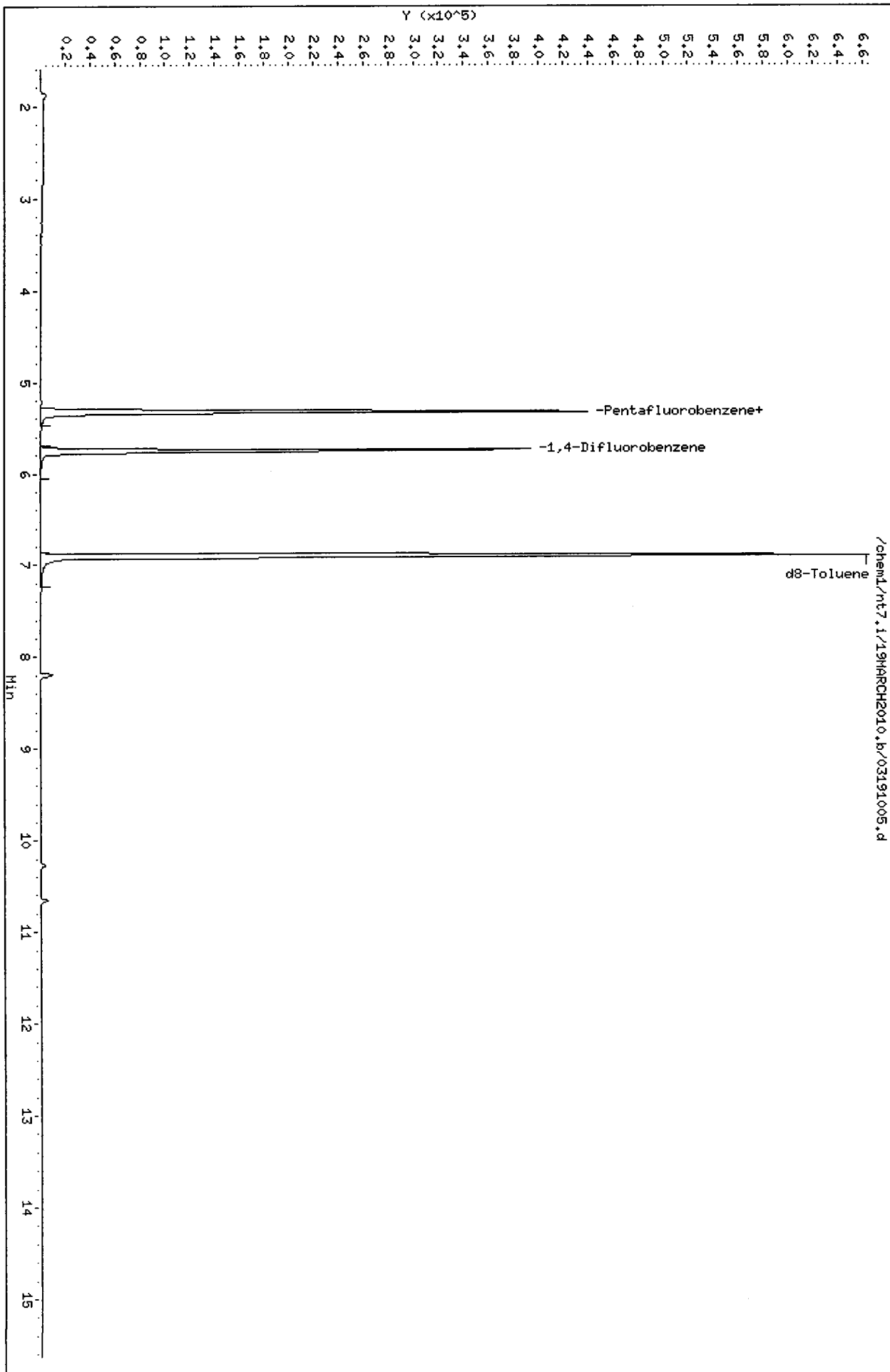
Sample Info: HB0319,10,10,0

Column phase: RTXWMS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



/chem1/nt7.1/19HARCH2010.b/03191005.d

d8-Toluene


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QN31A

LIMS ID: 10-6027

Matrix: Water

Data Release Authorized: 

Reported: 03/22/10

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Date Sampled: 03/11/10

Date Received: 03/11/10

Instrument/Analyst: NT7/PKC

Date Analyzed: 03/19/10 04:40

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|-------|
| d4-1,2-Dichloroethane | 99.2% |
| d8-Toluene | 101% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191009.d
Report Date: 22-Mar-2010 15:23

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191009.d
 Lab Smp Id: QN31AMS Client Smp ID: CB31A031110GRAB MS
 Inj Date : 19-MAR-2010 04:40
 Operator : PC Inst ID: nt7.i
 Smp Info : QN31AMS,10,10,0
 Misc Info : 10-6027
 Comment :
 Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Meth Date : 22-Mar-2010 15:22 paul Quant Type: ISTD
 Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.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 | | 1.553 | 1.553 | (0.292) | 221563 | 1024.89 | 1024.9 |
| 2 1,1-Dichloroethene | 96 | | 2.518 | 2.519 | (0.473) | 182652 | 1029.24 | 1029.2 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.305 | 3.294 | (0.621) | 203333 | 1044.07 | 1044.1 |
| 3 cis-1,2-dichloroethene | 96 | | 4.445 | 4.446 | (0.835) | 208117 | 1046.63 | 1046.6 |
| 6 Benzene | 78 | | 5.209 | 5.209 | (0.907) | 856646 | 1040.44 | 1040.4 |
| * 4 Pentafluorobenzene | 168 | | 5.326 | 5.315 | (1.000) | 411522 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.326 | 5.327 | (1.000) | 147951 | 992.265 | 992.27 |
| 176 1,2-Dichloroethane | 62 | | 5.385 | 5.386 | (1.011) | 217919 | 1117.22 | 1117.2 |
| 8 Trichloroethene | 130 | | 5.711 | 5.711 | (0.994) | 214674 | 1006.41 | 1006.4 |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 609238 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 697990 | 1007.30 | 1007.3 |
| 10 Tetrachloroethene | 166 | | 7.259 | 7.260 | (1.263) | 208085 | 1048.90 | 1048.9 |
| 11 1,1,1,2,2-Tetrachloroethane | 83 | | 9.446 | 9.447 | (1.644) | 146269 | 1081.50 | 1081.5 |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191009.d
Lab Smp Id: QN31AMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6027

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CB31A031110GRAB MS
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 411522 | -5.77 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 609238 | -1.58 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.33 | 0.21 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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-Snyder
 Sample Matrix: LIQUID
 Lab Smp Id: QN31AMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: all.sub
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-6027

Client SDG: QN31
 Fraction: VOA
 Client Smp ID: CB31A031110GRAB 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 | 1024.9 | 102.49 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1117.2 | 111.72 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1044.1 | 104.41 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 1029.2 | 102.92 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1046.6 | 104.66 | 76-127 |
| 6 Benzene | 1000.0 | 1040.4 | 104.04 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1006.4 | 100.64 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1048.9 | 104.89 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1081.5 | 108.15 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 992.27 | 99.23 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1007.3 | 100.73 | 60-140 |

Data File: /chem1/nt7.1/19MARCH2010.b/03191009.d

Date: 19-MAR-2010 04:40

Client ID: CB31A031110GRAB MS

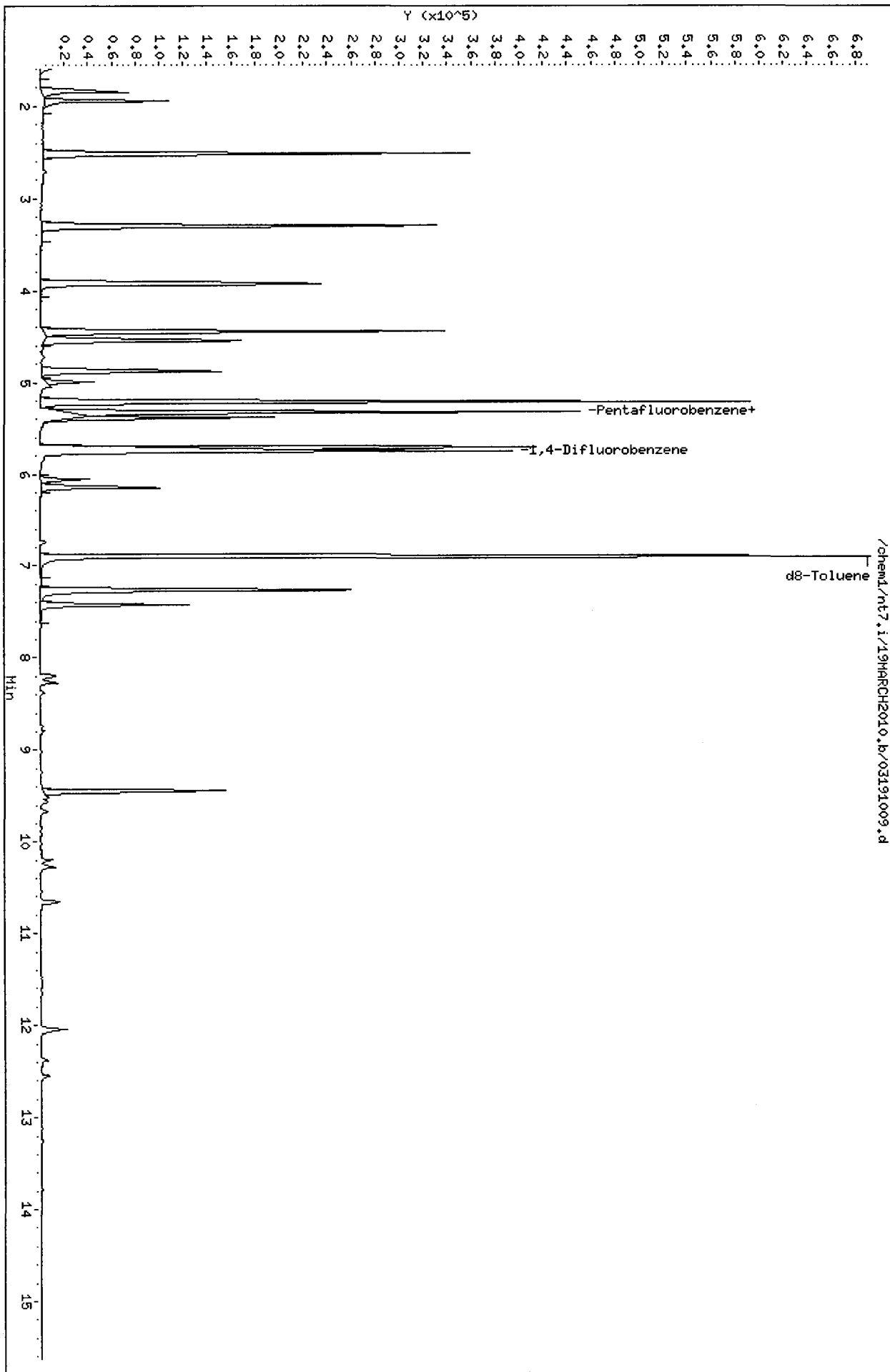
Sample Info: QN31AMS,10,10.0

Column phase: RTXVMS

Instrument: nt7.1


Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A031110GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QN31A
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: 
Reported: 03/22/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Instrument/Analyst: NT7/PKC
Date Analyzed: 03/19/10 05:06

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 $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

| | |
|-----------------------|------|
| d4-1,2-Dichloroethane | 100% |
| d8-Toluene | 101% |

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191010.d
Report Date: 22-Mar-2010 15:23

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191010.d
Lab Smp Id: QN31AMSD Client Smp ID: CB31A031110GRAB MSD
Inj Date : 19-MAR-2010 05:06
Operator : PC Inst ID: nt7.i
Smp Info : QN31AMSD,10,10,0
Misc Info : 10-6027
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:22 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.553 | 1.553 | (0.292) | 225223 | 1061.85 | 1061.8 |
| 2 1,1-Dichloroethene | 96 | 2.519 | 2.519 | (0.473) | 187211 | 1075.20 | 1075.2 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.294 | 3.294 | (0.618) | 207087 | 1083.79✓ | 1083.8 |
| 3 cis-1,2-dichloroethene | 96 | 4.446 | 4.446 | (0.835) | 211484 | 1084.01✓ | 1084.0 |
| 6 Benzene | 78 | 5.210 | 5.209 | (0.907) | 868717 | 1073.55 | 1073.5 |
| * 4 Pentafluorobenzene | 168 | 5.327 | 5.315 | (1.000) | 403760 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.327 | 5.327 | (1.000) | 146612 | 1002.19 | 1002.2 |
| 176 1,2-Dichloroethane | 62 | 5.386 | 5.386 | (1.011) | 223536 | 1168.05✓ | 1168.1 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.994) | 219933 | 1049.09 ✓ | 1049.1 |
| * 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 598768 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.903 | 6.903 | (1.202) | 686270 | 1007.70 | 1007.7 |
| 10 Tetrachloroethene | 166 | 7.260 | 7.260 | (1.264) | 213378 | 1094.38 ✓ | 1094.4 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.447 | 9.447 | (1.644) | 155737 | 1171.64 | 1171.6 |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191010.d
Lab Smp Id: QN31AMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-6027

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: CB31A031110GRAB MSD
Level: LOW
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 436713 | 218356 | 873426 | 403760 | -7.55 |
| 7 1,4-Difluorobenzene | 618992 | 309496 | 1237984 | 598768 | -3.27 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzene | 5.32 | 4.82 | 5.82 | 5.33 | 0.23 |
| 7 1,4-Difluorobenzene | 5.75 | 5.25 | 6.25 | 5.75 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snyder
 Sample Matrix: LIQUID
 Lab Smp Id: QN31AMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: special.spk
 Sublist File: all.sub
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-6027

Client SDG: QN31
 Fraction: VOA
 Client Smp ID: CB31A031110GRAB 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 | 1061.8 | 106.18 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 1168.1 | 116.81 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 1083.8 | 108.38 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 1075.2 | 107.52 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 1084.0 | 108.40 | 76-127 |
| 6 Benzene | 1000.0 | 1073.5 | 107.35 | 75-121 |
| 8 Trichloroethene | 1000.0 | 1049.1 | 104.91 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 1094.4 | 109.44 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1171.6 | 117.16 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 1002.2 | 100.22 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1007.7 | 100.77 | 60-140 |

Data File: /chem1/nt7.i/19MARCH2010.b/03191010.d

Date: 19-MAR-2010 05:06

Client ID: CB31A031110GRAB HSD

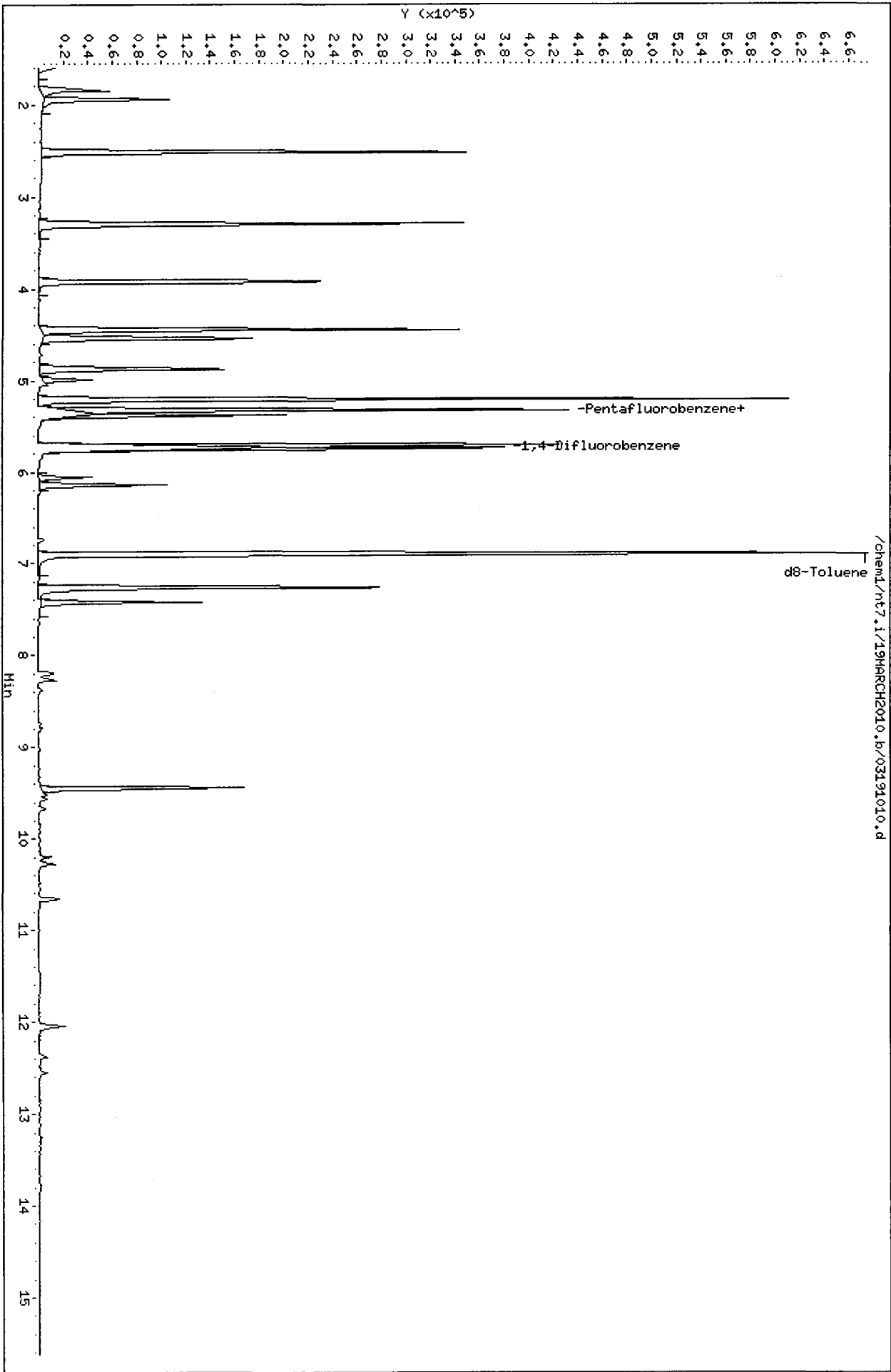
Sample Info: QN31AHS.D,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC

Column diameter: 0.18



PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191003.d
Report Date: 22-Mar-2010 15:23

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/19MARCH2010.b/03191003.d
Lab Smp Id: LCS0319 Client Smp ID: LCS0319
Inj Date : 19-MAR-2010 01:49
Operator : PC Inst ID: nt7.i
Smp Info : LCS0319,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:22 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | 1.553 | (0.292) | 213109 | 898.623 | 898.62 |
| 2 1,1-Dichloroethene | 96 | 2.520 | 2.519 | (0.474) | 174749 | 897.634 | 897.63 |
| 175 Trans-1,2-Dichloroethene | 96 | 3.295 | 3.294 | (0.620) | 192438 | 900.765 | 900.76 |
| 3 cis-1,2-dichloroethene | 96 | 4.447 | 4.446 | (0.836) | 195624 | 896.818 | 896.82 |
| 6 Benzene | 78 | 5.211 | 5.209 | (0.907) | 793624 | 891.568 | 891.57 |
| * 4 Pentafluorobenzene | 168 | 5.316 | 5.315 | (1.000) | 451437 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | 5.328 | 5.327 | (1.002) | 157473 | 962.744 | 962.74 |
| 176 1,2-Dichloroethane | 62 | 5.387 | 5.386 | (1.013) | 201437 | 941.411 | 941.41 |
| 8 Trichloroethene | 130 | 5.711 | 5.711 | (0.994) | 207464 | 899.623 | 899.62 |
| * 7 1,4-Difluorobenzene | 114 | 5.745 | 5.745 | (1.000) | 658660 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | 6.901 | 6.903 | (1.201) | 751292 | 1002.87 | 1002.9 |
| 10 Tetrachloroethene | 166 | 7.258 | 7.260 | (1.263) | 198928 | 927.497 | 927.50 |
| 11 1,1,2,2-Tetrachloroethane | 83 | 9.445 | 9.447 | (1.644) | 131254 | 897.664 | 897.66 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191003.d
Lab Smp Id: LCS0319
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: LCS0319
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 451437 | 3.37 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 658660 | 6.41 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.02 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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: 19MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0319 Client Smp ID: LCS0319
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 898.62 | 89.86 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 941.41 | 94.14 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 900.76 | 90.08 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 897.63 | 89.76 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 896.82 | 89.68 | 76-127 |
| 6 Benzene | 1000.0 | 891.57 | 89.16 | 75-121 |
| 8 Trichloroethene | 1000.0 | 899.62 | 89.96 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 927.50 | 92.75 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 897.66 | 89.77 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 962.74 | 96.27 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 1002.9 | 100.29 | 60-140 |

Data File: /chem1/nt7.i/19MAR2010.b/03191003.d

Date : 19-MAR-2010 01:49

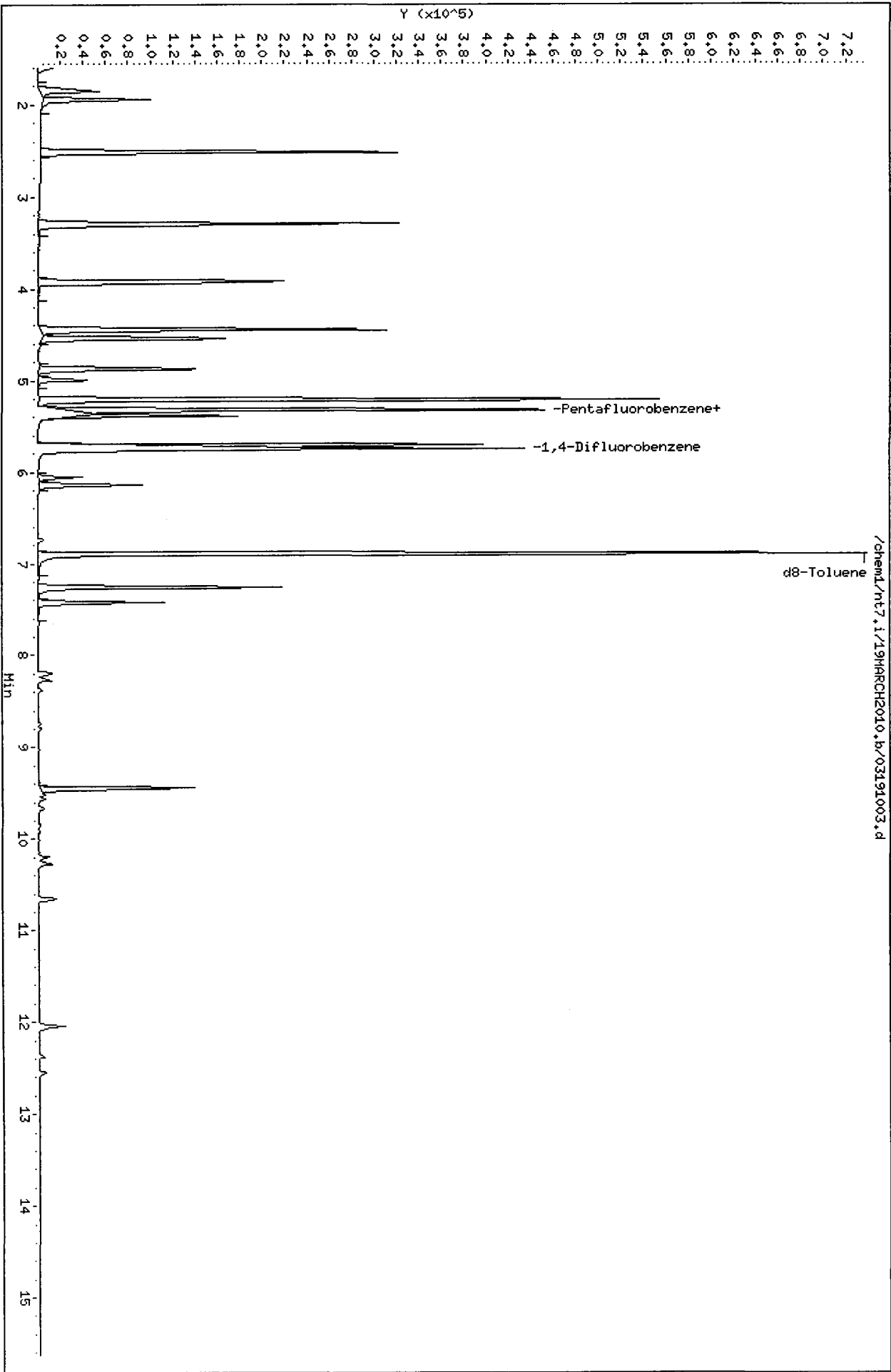
Client ID: LCS0319

Sample Info: LCS0319,10,10,0

Column phase: RTXVHS

Instrument: nt7.i

Operator: PC
Column diameter: 0.18



02500 : 15ND

PC
3/22/10

Data File: /chem1/nt7.i/19MARCH2010.b/03191004.d
Report Date: 22-Mar-2010 15:23

Page 1

Analytical Resources, Inc.

SW8260C SIM
Data file : /chem1/nt7.i/19MARCH2010.b/03191004.d
Lab Smp Id: LCSD0319 Client Smp ID: LCSD0319
Inj Date : 19-MAR-2010 02:16
Operator : PC Inst ID: nt7.i
Smp Info : LCSD0319,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt7.i/19MARCH2010.b/sim031810.m
Meth Date : 22-Mar-2010 15:22 paul Quant Type: ISTD
Cal Date : 18-MAR-2010 06:47 Cal File: 03181012.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 | | 1.551 | 1.553 | (0.292) | 225917 | 916.167 | 916.17 |
| 2 1,1-Dichloroethene | 96 | | 2.519 | 2.519 | (0.474) | 185261 | 915.205 | 915.20 |
| 175 Trans-1,2-Dichloroethene | 96 | | 3.294 | 3.294 | (0.620) | 205488 | 925.030 | 925.03 |
| 3 cis-1,2-dichloroethene | 96 | | 4.446 | 4.446 | (0.836) | 209526 | 923.780 | 923.78 |
| 6 Benzene | 78 | | 5.210 | 5.209 | (0.907) | 846880 | 960.376 | 960.38 |
| * 4 Pentafluorobenzene | 168 | | 5.315 | 5.315 | (1.000) | 469405 | 1000.00 | |
| \$ 5 d4-1,2-Dichloroethane | 65 | | 5.327 | 5.327 | (1.002) | 157692 | 927.183 | 927.18 |
| 176 1,2-Dichloroethane | 62 | | 5.386 | 5.386 | (1.013) | 220589 | 991.456 | 991.46 |
| 8 Trichloroethene | 130 | | 5.711 | 5.711 | (0.994) | 218086 | 954.612 | 954.61 |
| * 7 1,4-Difluorobenzene | 114 | | 5.746 | 5.745 | (1.000) | 652501 | 1000.00 | |
| \$ 9 d8-Toluene | 98 | | 6.902 | 6.903 | (1.201) | 741124 | 998.633 | 998.63 |
| 10 Tetrachloroethene | 166 | | 7.259 | 7.260 | (1.263) | 210114 | 988.901 | 988.90 |
| 11 1,1,2,2-Tetrachloroethane | 83 | | 9.446 | 9.447 | (1.644) | 156540 | 1080.70 | 1080.7 |

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 03191004.d
Lab Smp Id: LCSD0319
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
Misc Info: 10-

Calibration Date: 19-MAR-2010
Calibration Time: 01:23
Client Smp ID: LCSD0319
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 436713 | 218356 | 873426 | 469405 | 7.49 |
| 7 1,4-Difluorobenze | 618992 | 309496 | 1237984 | 652501 | 5.41 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Pentafluorobenzen | 5.32 | 4.82 | 5.82 | 5.32 | 0.00 |
| 7 1,4-Difluorobenze | 5.75 | 5.25 | 6.25 | 5.75 | 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

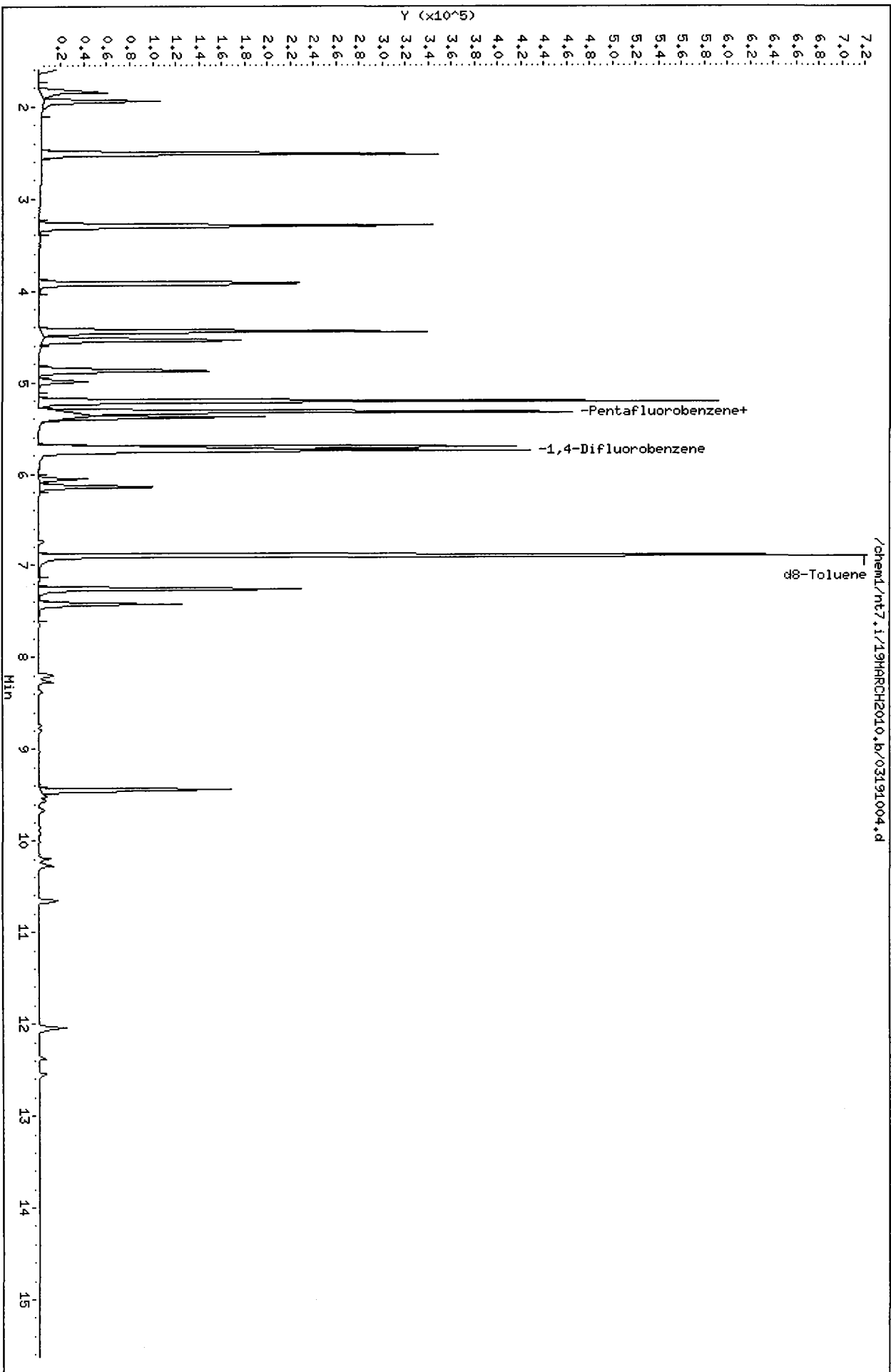
Client Name: Client SDG: 19MARCH2010
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCSD0319 Client Smp ID: LCSD0319
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /chem1/nt7.i/19MARCH2010.b/sim031810.m
 Misc Info: 10-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 1 Vinyl Chloride | 1000.0 | 916.17 | 91.62 | 76-120 |
| 176 1,2-Dichloroethane | 1000.0 | 991.46 | 99.15 | 70-130 |
| 175 Trans-1,2-Dichloro | 1000.0 | 925.03 | 92.50 | 70-130 |
| 2 1,1-Dichloroethene | 1000.0 | 915.20 | 91.52 | 79-126 |
| 3 cis-1,2-dichloroet | 1000.0 | 923.78 | 92.38 | 76-127 |
| 6 Benzene | 1000.0 | 960.38 | 96.04 | 75-121 |
| 8 Trichloroethene | 1000.0 | 954.61 | 95.46 | 79-120 |
| 10 Tetrachloroethene | 1000.0 | 988.90 | 98.89 | 75-123 |
| 11 1,1,2,2-Tetrachlor | 1000.0 | 1080.7 | 108.07 | 72-129 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 5 d4-1,2-Dichloroeth | 1000.0 | 927.18 | 92.72 | 76-119 |
| \$ 9 d8-Toluene | 1000.0 | 998.63 | 99.86 | 60-140 |

Data File: /chem1/nt7.1/19HARCH2010.b/03191004.d
Date : 19-HAR-2010 02:16
Client ID: LCSD0319
Sample Info: LCSD0319,10,10,0
Column phase: RTXVMS

Instrument: nt7.1
Operator: PC
Column diameter: 0.18



SIM Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 3/18/10 Analysis: SIM VOA Analyst: PC
 GC Program: VC Column No: 850322 Column Type: RETURNS
 Instrument Tune (.U or .CT.): 03/18/10/1 EM Voltage: 1835
 Calibration File: 03/18/10/1 Curve Date: 3/18/10

| IS/SS | Ical/Ccal | LCS/ICV |
|---------------|---------------|---------------|
| <u>vwb2/2</u> | <u>vwb2/4</u> | <u>vwb1/2</u> |
| | | |
| | | |
| | | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.1/18MARCH2010.b

| Time | Filename | LabID | ClientID | Vial# | pH | DF |
|------|----------|------------|----------|---------|----------|----------------------|
| 1 | 0135 | 01181001.d | BFB0318 | BFB0318 | | 1 |
| 2 | 0211 | 03191002.d | 40000318 | | 1 5.32 | 540461 5.75 754756 |
| 3 | 0238 | 03181003.d | 20000318 | | 1 5.32 | 537992 5.75 752079 |
| 4 | 0304 | 03181004.d | 10000318 | | 1 5.32 | 509267 5.75 701409 |
| 5 | 0331 | 03181005.d | 5000318 | | 1 5.32 | 485648 5.75 709951 |
| 6 | 0407 | 03181006.d | 01000318 | 100 PPT | 1 5.32 | 486706 5.75 707128 |
| 7 | 0434 | 03181007.d | 00500318 | 50 PPT | 1 5.32 | 210878 5.75 294252 |
| 8 | 0501 | 03181008.d | 00200318 | 20 PPT | 1 5.32 | 483815 5.75 677688 |
| 9 | 0527 | 03181009.d | 40000318 | 4 PPB | 1 5.32 | 468059 5.75 690741 |
| 10 | 0554 | 03181010.d | 20000318 | 2 PPB | 1 5.32 | 443206 5.75 656889 |
| 11 | 0621 | 03181011.d | 10000318 | 1 PPB | 1 5.32 | 436713 5.75 618992 |
| 12 | 0647 | 03181012.d | 05000318 | 500 PPT | 1 5.32 | 415601 5.75 615588 |
| 13 | 0714 | 03181013.d | 1000318 | 1000318 | 1 5.32 | 409680 5.75 614179 |

[Handwritten signature]
 PC 3/22/10

Maintenance / Comments 50 ppt point misinjected - poor IS delivery

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM SCAL Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

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: 3/18/10 Analysis Start Date: _____

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? **YES** / NO / NA LCS / LCSD Recovery In Control? **YES** / NO

Internal Standard Meets Criteria? **YES** / NO / NA Surrogate Recovery In Control? **YES** / NO

Special Analysis Criteria Met? **YES** / NO / NA

ICal acceptable? **YES** / NO; Q flag applied? YES / **NO** / NA

CCal acceptable? **YES** / NO; Q flag applied? YES / **NO** / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

*50 point not used due to mechanical failure - IS not delivered properly.
1,2 dichloro ethane added to SIM method.*

Additional Details on Reverse: Yes / No

Analyst Signature: Paul Egan Date: 3/19/10

Reviewer's Signature: [Signature] Date: 3/19/10



VOA Analyst Notes / Corrective Action Log

ARI Project ID: QNS1 Client ID: Floyd Snider

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): SIM 8260C

Instrument: NT-3 NT-5 (NT-7) NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/18/10 Analysis Start Date: 3/19/10

pH ≤ 2.0 (YES) NO / NA Method Blank In Control? (YES) NO

BFB Tune Meets Criteria? (YES) NO / NA LCS / LCSD Recovery In Control? (YES) NO

Internal Standard Meets Criteria? (YES) NO / NA Surrogate Recovery In Control? (YES) NO

Special Analysis Criteria Met? (YES) NO / NA *1,2 dichloroethane added*

ICal acceptable? (YES) / NO; Q flag applied? YES / (NO) / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / (NO) / NA

Bubbles/Headspace: (None) SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

MNL not yet performed on 1,2 dichloroethane, RL set at curve low point.

Additional Details on Reverse: Yes / No

Analyst Signature: Paul Englund Date: 3/22/10

Reviewer's Signature: [Signature] Date: 3/2/10

TPHD Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MB-031510 | 88.4% | 0 |
| LCS-031510 | 90.2% | 0 |
| CB31A031110GRAB | 83.9% | 0 |
| CB31A031110GRAB MS | 83.1% | 0 |
| CB31A031110GRAB MSD | 78.9% | 0 |
| CB1031110GRAB | 83.9% | 0 |
| CB4857031110GRAB | 80.4% | 0 |
| CB101031110GRAB | 83.5% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(51-120)

(41-121)

Prep Method: SW3510C
Log Number Range: 10-6027 to 10-6030

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

Sample ID: CB31A031110GRAB
 MS/MSD

Lab Sample ID: QN31A
 LIMS ID: 10-6027
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
 Project: Lora Lakes Apartments
 POS-LLA
 Date Sampled: 03/11/10
 Date Received: 03/11/10

Date Extracted MS/MSD: 03/15/10
 Date Analyzed MS: 03/16/10 15:18
 MSD: 03/16/10 15:35
 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 | 0.30 | 2.38 | 3.00 | 69.3% | 2.39 | 3.00 | 69.7% | 0.4% |

TPHD Surrogate Recovery

| | MS | MSD |
|-------------|-------|-------|
| o-Terphenyl | 83.1% | 78.9% |

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-031510
LAB CONTROL

Lab Sample ID: LCS-031510
LIMS ID: 10-6027
Matrix: Water
Data Release Authorized: *B*
Reported: 03/19/10

QC Report No: QN31-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 03/11/10
Date Received: 03/11/10

Date Extracted: 03/15/10
Date Analyzed: 03/16/10 16:45
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 | 2.47 | 3.00 | 82.3% |

TPHD Surrogate Recovery

| | |
|-------------|-------|
| o-Terphenyl | 90.2% |
|-------------|-------|

Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QN31MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QN31

Project No.: LORA LAKE APTS.

Date Extracted: 03/15/10

Matrix: LIQUID

Date Analyzed : 03/16/10

Instrument ID : FID3A

Time Analyzed : 1702

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | CB31A031110G | QN31A | 03/16/10 |
| 02 | CB31A031110G | QN31AMS | 03/16/10 |
| 03 | CB31A031110G | QN31AMSD | 03/16/10 |
| 04 | CB1031110GRA | QN31B | 03/16/10 |
| 05 | CB4857031110 | QN31C | 03/16/10 |
| 06 | CB101031110G | QN31D | 03/16/10 |
| 07 | QN31LCSW1 | QN31LCSW1 | 03/16/10 |
| 08 | | | |
| 09 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QN31

Project: LORA LAKE APTS.

Instrument ID: FID3A

GC Column: ZB1-HT

Run Date: 03/16/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|--------------|----------|-------------|-------|-------------|--|
| | | | TERPH: 4.93 | | TRIAC: 6.79 | |
| CLIENT | LAB | DATE | TIME | TERPH | TRIAC | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT # | RT # | |
| 01 | RT | 03/16/10 | 1334 | 4.93 | 6.79 | |
| 02 | IB | 03/16/10 | 1351 | 4.93 | 6.79 | |
| 03 | DIESEL#1 | 03/16/10 | 1408 | 4.93 | 6.78 | |
| 04 | MOIL#1 | 03/16/10 | 1426 | 4.93 | 6.79 | |
| 05 | CB31A031110G | 03/16/10 | 1500 | 4.93 | 6.79 | |
| 06 | CB31A031110G | 03/16/10 | 1518 | 4.93 | 6.79 | |
| 07 | CB31A031110G | 03/16/10 | 1535 | 4.93 | 6.79 | |
| 08 | CB1031110GRA | 03/16/10 | 1552 | 4.93 | 6.79 | |
| 09 | CB4857031110 | 03/16/10 | 1610 | 4.93 | 6.79 | |
| 10 | CB101031110G | 03/16/10 | 1627 | 4.93 | 6.79 | |
| 11 | QN31LCSW1 | 03/16/10 | 1645 | 4.93 | 6.79 | |
| 12 | QN31MBW1 | 03/16/10 | 1702 | 4.93 | 6.79 | |
| 13 | DIESEL#2 | 03/16/10 | 1720 | 4.93 | 6.79 | |
| 14 | MOIL#2 | 03/16/10 | 1737 | 4.93 | 6.79 | |

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.: QN31

Project: LORA LAKE APTS.

Instrument ID: FID3A

GC Column: ZB1-HT

Run Date: 02/24/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|----------------|------|
| | | | TERPH: 4.93 | | TRIAIC: 6.79 | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRIAIC RT # | |
| ===== | | | | | | |
| 01 | RT | RT | 02/24/10 | 1756 | 4.93 | 6.79 |
| 02 | IB | IB | 02/24/10 | 1814 | 4.93 | 6.79 |
| 03 | MOIL 100 | MOIL 100 | 02/24/10 | 2048 | 4.93 | 6.78 |
| 04 | MOIL 250 | MOIL 250 | 02/24/10 | 2105 | 4.93 | 6.79 |
| 05 | MOIL 500 | MOIL 500 | 02/24/10 | 2122 | 4.93 | 6.79 |
| 06 | MOIL 1000 | MOIL 1000 | 02/24/10 | 2139 | 4.93 | 6.80 |
| 07 | MOIL 2500 | MOIL 2500 | 02/24/10 | 2156 | 4.94 | 6.81 |
| 08 | MOIL 5000 | MOIL 5000 | 02/24/10 | 2213 | 4.93 | 6.83 |
| 09 | MOIL ICV | MOIL ICV | 02/24/10 | 2230 | 4.93 | 6.79 |

TERPH = o-terph
TRIAIC = 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.: QN31

Project: LORA LAKE APTS.

Instrument ID: FID3A

GC Column: ZB1-HT

Run Date: 03/01/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|-------------|-------------|-------------|-------|--------------|------|
| | | | TERPH: 4.93 | | TRIAIC: 6.78 | |
| CLIENT | LAB | DATE | TIME | TERPH | TRIAIC | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT # | RT # | |
| ===== | | | | | | |
| 01 | RT | RT | 03/01/10 | 1620 | 4.93 | 6.78 |
| 02 | IB | IB | 03/01/10 | 1637 | 4.93 | 6.79 |
| 03 | DIESEL 50 | DIESEL 50 | 03/01/10 | 1655 | 4.93 | 6.78 |
| 04 | DIESEL 100 | DIESEL 100 | 03/01/10 | 1712 | 4.93 | 6.78 |
| 05 | DIESEL 250 | DIESEL 250 | 03/01/10 | 1730 | 4.93 | 6.78 |
| 06 | DIESEL 500 | DIESEL 500 | 03/01/10 | 1747 | 4.94 | 6.78 |
| 07 | DIESEL 1000 | DIESEL 1000 | 03/01/10 | 1804 | 4.94 | 6.78 |
| 08 | | DIESEL 2500 | 03/01/10 | 1822 | 4.96 | 6.78 |

QC LIMITS

TERPH = o-terph
TRIAIC = Triacon Surr

(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

TPHD Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Matrix: Water

QC Report No: QN31-Floyd-Snider

Project: Lora Lakes Apartments

POS-LLA

Data Release Authorized: *AS*

Reported: 03/19/10

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|----------------------|-----------------|---------------|--------|-------------|------|----------|
| MB-031510 10-6027 | Method Blank | 03/15/10 | 03/16/10 | 1.00 | Diesel | 0.25 | < 0.25 U |
| | HC ID: --- | | FID3A | 1.0 | Motor Oil | 0.50 | < 0.50 U |
| | | | | | o-Terphenyl | | 88.4% |
| QN31A 10-6027 | CB31A031110GRAB | 03/15/10 | 03/16/10 | 1.00 | Diesel | 0.25 | 0.30 |
| | HC ID: DRO/MOTOR OIL | | FID3A | 1.0 | Motor Oil | 0.50 | 1.3 |
| | | | | | o-Terphenyl | | 83.9% |
| QN31B 10-6028 | CB1031110GRAB | 03/15/10 | 03/16/10 | 1.00 | Diesel | 0.25 | < 0.25 U |
| | HC ID: --- | | FID3A | 1.0 | Motor Oil | 0.50 | < 0.50 U |
| | | | | | o-Terphenyl | | 83.9% |
| QN31C 10-6029 | CB4857031110GRAB | 03/15/10 | 03/16/10 | 1.00 | Diesel | 0.25 | < 0.25 U |
| | HC ID: MOTOR OIL | | FID3A | 1.0 | Motor Oil | 0.50 | 0.77 |
| | | | | | o-Terphenyl | | 80.4% |
| QN31D 10-6030 | CB101031110GRAB | 03/15/10 | 03/16/10 | 1.00 | Diesel | 0.25 | < 0.25 U |
| | HC ID: MOTOR OIL | | FID3A | 1.0 | Motor Oil | 0.50 | 0.79 |
| | | | | | o-Terphenyl | | 83.5% |

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.

Analytical Resources Inc.
TPH Quantitation Report

ms 3/18/10

Data file: /chem3/fid3a.i/20100316.b/0316a006.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31A
Client ID: CB31A031110GRAB
Injection: 16-MAR-2010 15:00
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.467 | 0.008 | 10805 | 12910 | GAS (Tol-C12) | 346401 | 13 |
| C8 | 1.833 | 0.004 | 2034 | 1945 | DIESEL (C12-C24) | 4430096 | 149 |
| C10 | 3.050 | 0.004 | 3539 | 2957 | M.OIL (C24-C38) | 14950933 | 666 |
| C12 | 3.629 | 0.000 | 4157 | 1897 | AK-102 (C10-C25) | 5107746 | 153 |
| C14 | 4.084 | 0.003 | 11894 | 17114 | AK-103 (C25-C36) | 13244946 | 1483 |
| C16 | 4.476 | 0.000 | 28452 | 20845 | OR.DIES (C10-C28) | 10334928 | 490 |
| C18 | 4.828 | -0.001 | 49966 | 38288 | OR.MOIL (C28-C40) | 10145322 | 900 |
| C20 | 5.150 | 0.001 | 62810 | 59778 | JET-A (C10-C18) | 916970 | 58 |
| C22 | 5.468 | 0.000 | 81568 | 36934 | | | |
| C24 | 5.801 | -0.001 | 131015 | 47172 | STODDARD (C8-C12) | 288892 | 10 |
| C25 | 5.969 | -0.001 | 173722 | 174440 | | | |
| C26 | 6.134 | -0.002 | 158795 | 57789 | | | |
| C28 | 6.466 | 0.002 | 185359 | 218413 | | | |
| C32 | 7.086 | 0.000 | 166232 | 211323 | | | |
| C34 | 7.373 | 0.001 | 139258 | 130168 | | | |
| Filter Peak | 7.613 | 0.012 | 364513 | 412699 | | | |
| C36 | 7.647 | 0.002 | 106247 | 142605 | CREOSOT (C8-C22) | 2682879 | 419 |
| C38 | 7.905 | -0.001 | 87239 | 89636 | | | |
| C40 | 8.156 | 0.003 | 72533 | 54990 | BUNKERC (C10-C38) | 19537393 | 2260 |

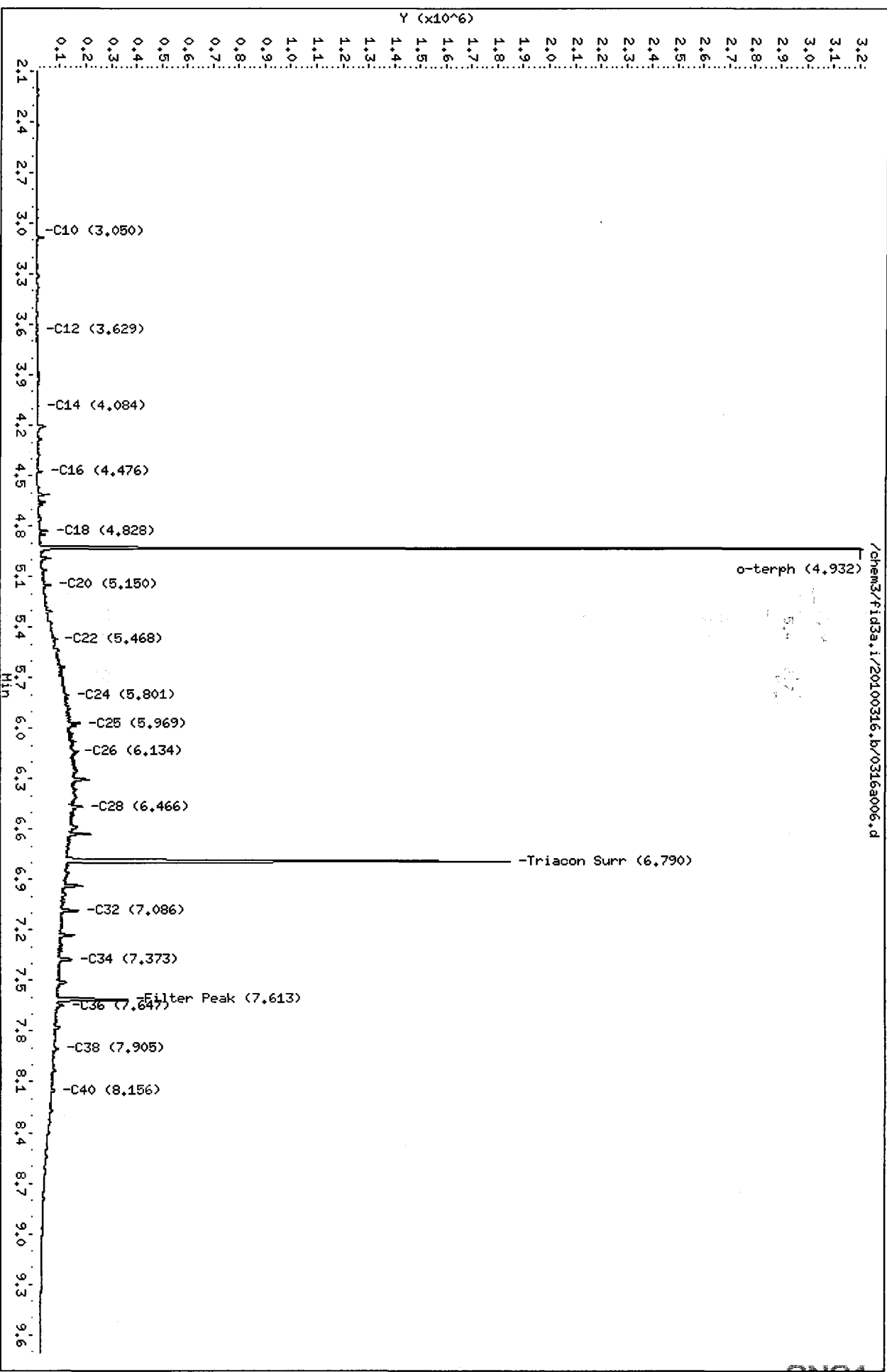
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1459272 | 37.8 | 83.9 |
| Triacontane | 1355272 | 38.6 | 85.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a006.d
Date: 16-Mar-2010 15:00
Client ID: C831A031110CRAB
Sample Info: QN31A
Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



0316A006.D

MS 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a009.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31B
Client ID: CB1031110GRAB
Injection: 16-MAR-2010 15:52
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.468 | 0.010 | 8332 | 11171 | GAS (Tol-C12) | 250852 | 9 |
| C8 | 1.828 | -0.002 | 1742 | 239 | DIESEL (C12-C24) | 481850 | 16 |
| C10 | 3.047 | 0.001 | 2818 | 2163 | M.OIL (C24-C38) | 1201014 | 54 |
| C12 | 3.630 | 0.001 | 1833 | 626 | AK-102 (C10-C25) | 590315 | 18 |
| C14 | 4.078 | -0.003 | 1972 | 117 | AK-103 (C25-C36) | 1044679 | 117 |
| C16 | 4.479 | 0.003 | 5296 | 4706 | OR.DIES (C10-C28) | 861352 | 41 |
| C18 | 4.828 | -0.001 | 6380 | 5892 | OR.MOIL (C28-C40) | 1062015 | 94 |
| C20 | 5.152 | 0.003 | 6092 | 6997 | JET-A (C10-C18) | 329806 | 21 |
| C22 | 5.470 | 0.002 | 5718 | 3763 | | | |
| C24 | 5.801 | -0.001 | 7601 | 7619 | STODDARD (C8-C12) | 192556 | 7 |
| C25 | 5.969 | 0.000 | 22421 | 19542 | | | |
| C26 | 6.136 | 0.000 | 10172 | 11197 | | | |
| C28 | 6.463 | -0.001 | 10564 | 13676 | | | |
| C32 | 7.085 | 0.000 | 11341 | 17088 | | | |
| C34 | 7.376 | 0.004 | 18896 | 24506 | | | |
| Filter Peak | 7.611 | 0.010 | 336976 | 289196 | | | |
| C36 | 7.646 | 0.001 | 9562 | 3410 | CREOSOT (C8-C22) | 564938 | 88 |
| C38 | 7.906 | 0.000 | 9347 | 2612 | | | |
| C40 | 8.157 | 0.004 | 13402 | 11392 | BUNKERC (C10-C38) | 1767105 | 204 |

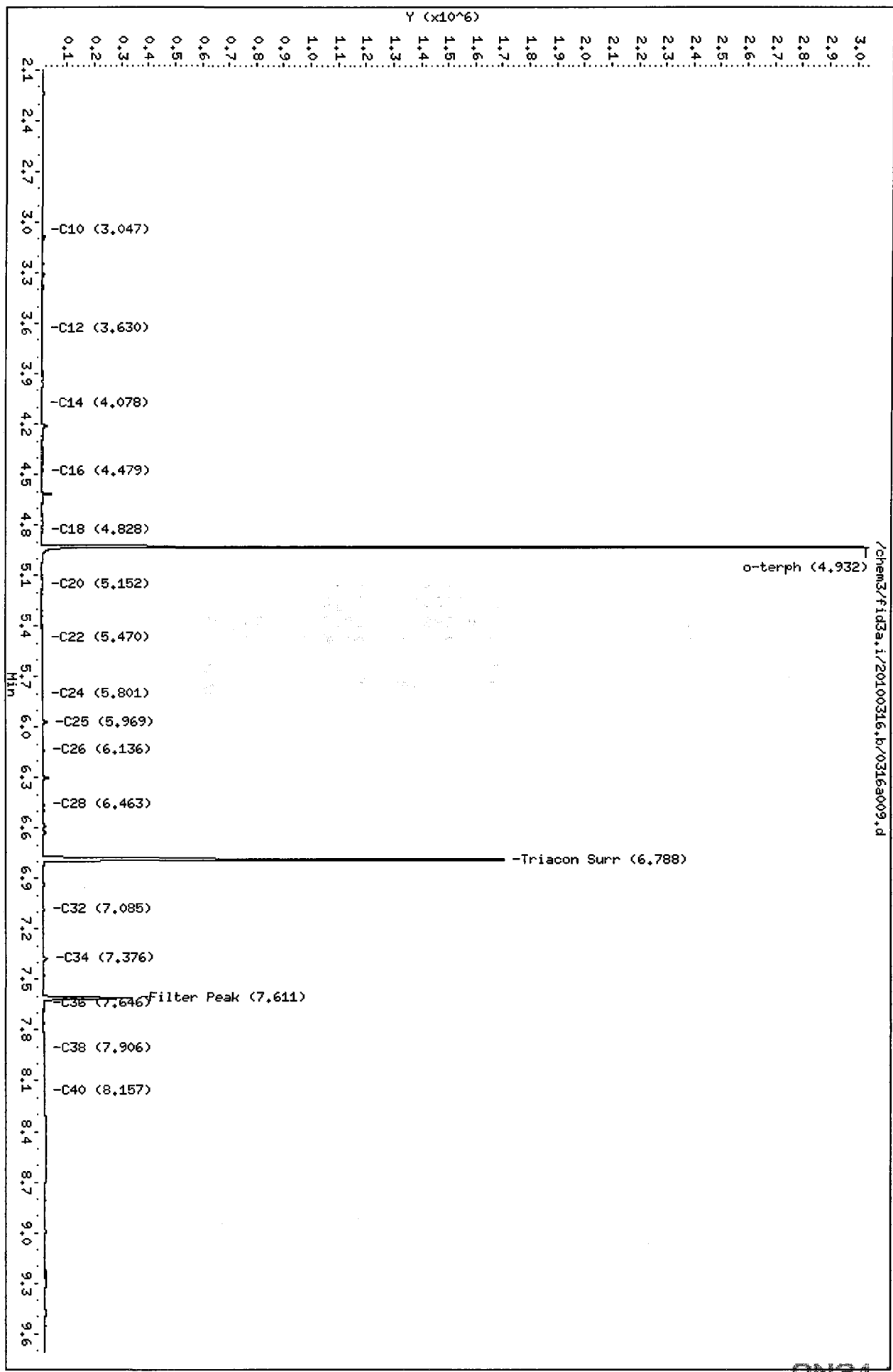
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1458546 | 37.7 | 83.9 |
| Triacotane | 1305169 | 37.2 | 82.6 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a009.d
 Date: 16-MAR-2010 15:52
 Client ID: CE1031110GRAB
 Sample Info: QN31B
 Column phase: ZB1-HT

Instrument: fid3a.i
 Operator: ms
 Column diameter: 0.25



0316 . 00443

Analytical Resources Inc.
TPH Quantitation Report

ms 3/11 9/10

Data file: /chem3/fid3a.i/20100316.b/0316a010.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31C
Client ID: CB4857031110GRAB
Injection: 16-MAR-2010 16:10
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.467 | 0.009 | 8139 | 10655 | GAS (Tol-C12) | 281724 | 10 |
| C8 | 1.832 | 0.002 | 1902 | 625 | DIESEL (C12-C24) | 2883505 | 97 |
| C10 | 3.047 | 0.001 | 2623 | 2156 | M.OIL (C24-C38) | 8652244 | 386 |
| C12 | 3.632 | 0.003 | 2640 | 2604 | AK-102 (C10-C25) | 3297616 | 99 |
| C14 | 4.085 | 0.003 | 9147 | 9358 | AK-103 (C25-C36) | 7669036 | 859 |
| C16 | 4.476 | 0.000 | 24990 | 16372 | OR.DIES (C10-C28) | 6287312 | 298 |
| C18 | 4.828 | -0.001 | 42144 | 30942 | OR.MOIL (C28-C40) | 5921586 | 525 |
| C20 | 5.149 | 0.000 | 49042 | 48808 | JET-A (C10-C18) | 714375 | 45 |
| C22 | 5.469 | 0.001 | 56803 | 49590 | | | |
| C24 | 5.803 | 0.002 | 75451 | 77055 | STODDARD (C8-C12) | 213158 | 8 |
| C25 | 5.970 | 0.000 | 98334 | 86040 | | | |
| C26 | 6.135 | -0.002 | 96933 | 91593 | | | |
| C28 | 6.466 | 0.002 | 102737 | 65776 | | | |
| C32 | 7.083 | -0.002 | 89918 | 120477 | | | |
| C34 | 7.374 | 0.003 | 89059 | 125685 | | | |
| Filter Peak | 7.611 | 0.009 | 373282 | 372179 | | | |
| C36 | 7.646 | 0.000 | 62681 | 67522 | CREOSOT (C8-C22) | 1894918 | 296 |
| C38 | 7.905 | -0.001 | 49636 | 52154 | | | |
| C40 | 8.154 | 0.001 | 42835 | 32291 | BUNKERC (C10-C38) | 11639397 | 1347 |

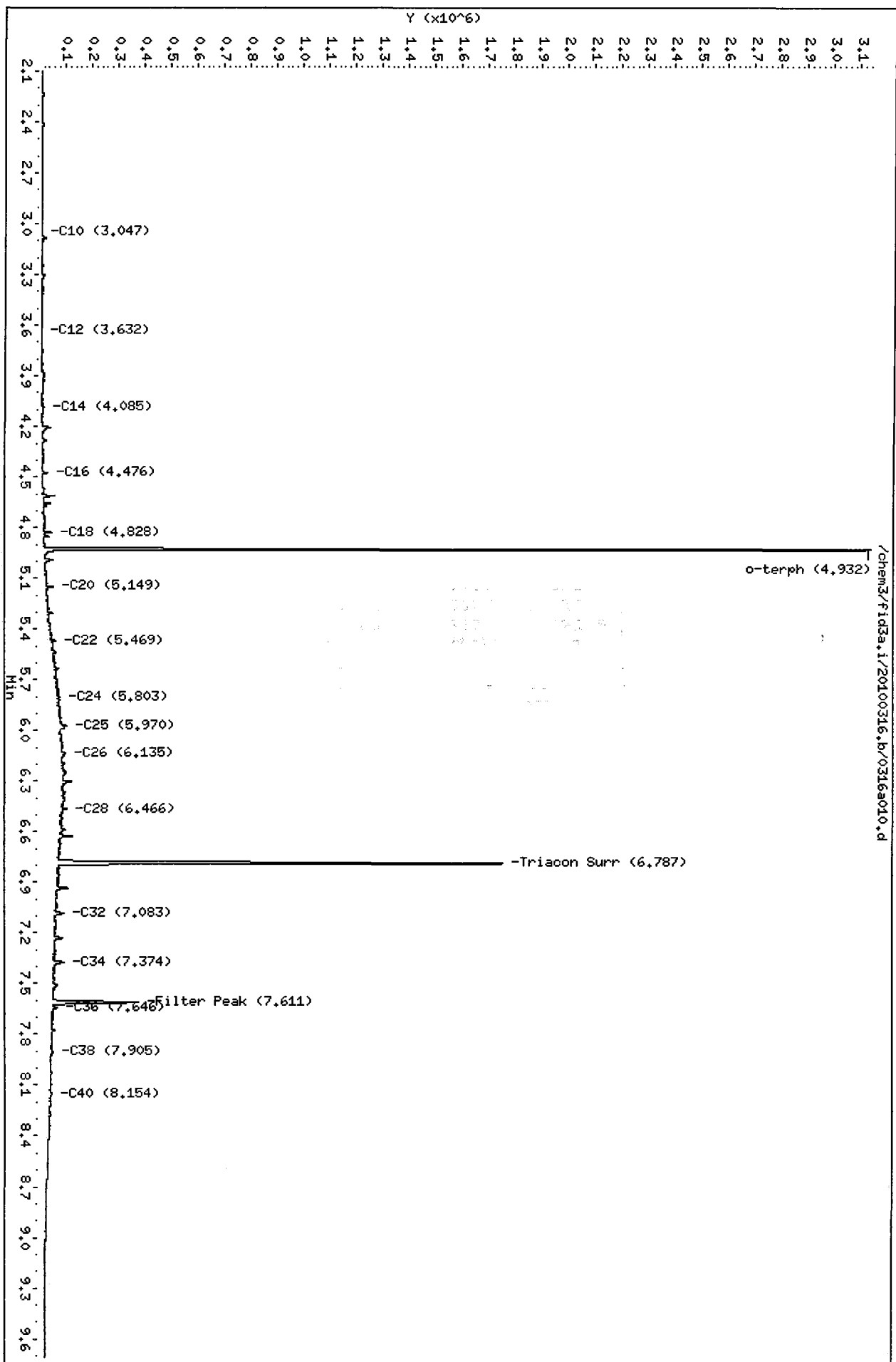
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1397368 | 36.2 | 80.4 |
| Triacontane | 1280237 | 36.4 | 81.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a010.d
 Date: 16-Mar-2010 16:10
 Client ID: CB4857031110GR08
 Sample Info: QN31C
 Column phase: ZB1-HT

Instrument: fid3a.i
 Operator: ms
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

M 311 8110

Data file: /chem3/fid3a.i/20100316.b/0316a011.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31D
Client ID: CB101031110GRAB
Injection: 16-MAR-2010 16:27
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.468 | 0.009 | 8642 | 11608 | GAS (Tol-C12) | 304169 | 11 |
| C8 | 1.828 | -0.001 | 2107 | 575 | DIESEL (C12-C24) | 2934335 | 99 |
| C10 | 3.048 | 0.002 | 2895 | 2208 | M.OIL (C24-C38) | 8835185 | 394 |
| C12 | 3.631 | 0.002 | 2656 | 1320 | AK-102 (C10-C25) | 3311129 | 99 |
| C14 | 4.086 | 0.004 | 9477 | 10447 | AK-103 (C25-C36) | 7884559 | 883 |
| C16 | 4.477 | 0.001 | 24998 | 17040 | OR.DIES (C10-C28) | 6407636 | 304 |
| C18 | 4.829 | 0.000 | 42287 | 31062 | OR.MOIL (C28-C40) | 6077834 | 539 |
| C20 | 5.150 | 0.001 | 51146 | 46530 | JET-A (C10-C18) | 726204 | 46 |
| C22 | 5.470 | 0.002 | 54364 | 60280 | | | |
| C24 | 5.802 | 0.000 | 78258 | 67726 | STODDARD (C8-C12) | 235475 | 9 |
| C25 | 5.968 | -0.002 | 95714 | 61571 | | | |
| C26 | 6.136 | -0.001 | 97409 | 70662 | | | |
| C28 | 6.461 | -0.003 | 109230 | 135808 | | | |
| C32 | 7.084 | -0.001 | 97629 | 134919 | | | |
| C34 | 7.374 | 0.002 | 83724 | 126527 | | | |
| Filter Peak | 7.611 | 0.009 | 314693 | 332379 | | | |
| C36 | 7.646 | 0.000 | 62697 | 62072 | CREOSOT (C8-C22) | 1939430 | 303 |
| C38 | 7.905 | -0.001 | 51243 | 79341 | | | |
| C40 | 8.154 | 0.001 | 47566 | 80334 | BUNKERC (C10-C38) | 11877604 | 1374 |

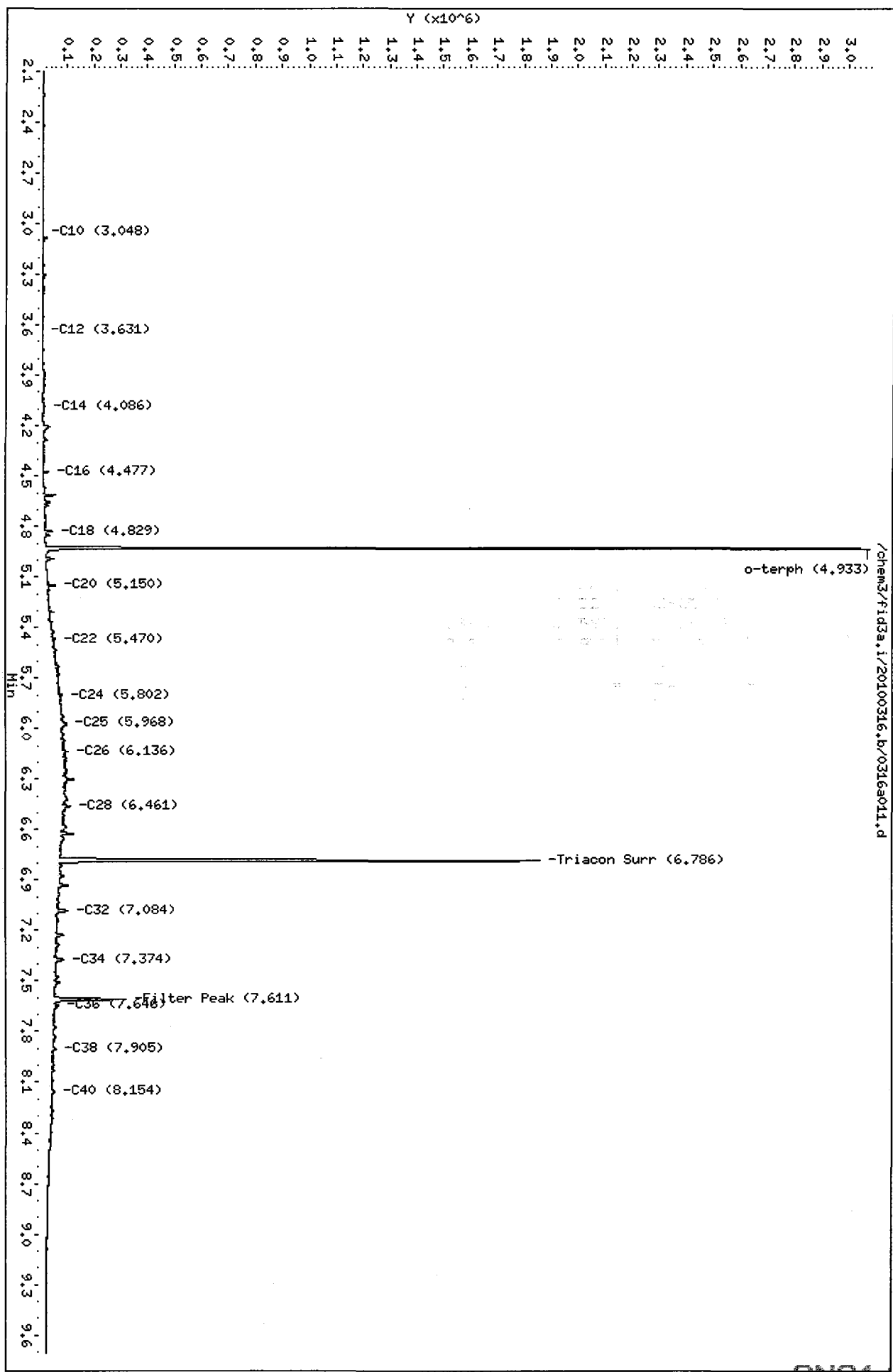
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1452027 | 37.6 | 83.5 |
| Triacontane | 1354411 | 38.6 | 85.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a011.d
 Date: 16-MAR-2010 16:27
 Client ID: CB1010311106RAB
 Sample Info: QN31D
 Column phase: ZB1-HT

Instrument: fid3a.i
 Operator: ms
 Column diameter: 0.25



/chem3/fid3a.i/20100316.b/0316a011.d

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 03/11/10

ARI Job: QN31
Project: Lora Lakes Apartments
POS-LLA

| ARI ID | Client ID | Samp Amt | Final Vol | Prep Date |
|--------------------|------------------|-------------|--------------|--------------|
| 10-6027-031510MB1 | Method Blank | 500 mL | 1.00 mL | 03/15/10 |
| 10-6027-031510LCS1 | Lab Control | 500 mL | 1.00 mL | 03/15/10 |
| 10-6027-QN31A | CB31A031110GRAB | 500 mL | 1.00 mL | 03/15/10 |
| 10-6027-QN31AMS | CB31A031110GRAB | 500 mL | 1.00 mL | 03/15/10 |
| 10-6027-QN31AMSD | CB31A031110GRAB | 500 mL | 1.00 mL | 03/15/10 |
| 10-6028-QN31B | CB1031110GRAB | 500 mL | 1.00 mL | 03/15/10 |
| 10-6029-QN31C | CB4857031110GRAB | 500 mL | 1.00 mL | 03/15/10 |
| 10-6030-QN31D | CB101031110GRAB | 500 mL | 1.00 mL | 03/15/10 |

TPHD Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID3A.I

Project: LORA LAKE APTS.

Calibration Date: 01-MAR-2010

SDG No.: QN31

| Diesel Range | RF1 50 | RF2 100 | RF3 250 | RF4 500 | RF5 1000 | RF6 2500 | Ave RF | %RSD |
|--------------|-----------|------------|------------|------------|-------------|-------------|--------|------|
| WA Diesel | 33908 | 30423 | 28632 | 29582 | 27925 | 28210 | 29780 | 7.5 |
| AK Diesel | 38446 | 34293 | 32133 | 33102 | 31204 | 31499 | 33446 | 8.1 |
| OR Diesel | 39603 | 34981 | 32522 | 33421 | 31468 | 31748 | 33957 | 9.0 |
| o-Terph | 41201 | 38487 | 37824 | 38895 | 37333 | 38093 | 38639 | 3.5 |

<- Indicates %RSD outside limits

Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.628-5.800)
 AK Diesel C10-C25 (3.044-5.968)
 OR Diesel C10-C28 (3.044-6.463)

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0301a007.d | 01-MAR-2010 16:55 |
| 0301a008.d | 01-MAR-2010 17:12 |
| 0301a009.d | 01-MAR-2010 17:30 |
| 0301a010.d | 01-MAR-2010 17:47 |
| 0301a011.d | 01-MAR-2010 18:04 |
| 0301a012.d | 01-MAR-2010 18:22 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2009 14:16
 End Cal Date : 01-MAR-2010 18:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem3/fid3a.i/20100301.b/ftphfid3a.m
 Cal Date : 03-Mar-2010 13:24 marys
 Curve Type : Average

Calibration File Names:

- Level 1: /chem3/fid3a.i/20100301.b/0301a005.d
- Level 2: /chem3/fid3a.i/20100301.b/0301a007.d
- Level 3: /chem3/fid3a.i/20100301.b/0301a008.d
- Level 4: /chem3/fid3a.i/20100301.b/0301a009.d
- Level 5: /chem3/fid3a.i/20100301.b/0301a010.d
- Level 6: /chem3/fid3a.i/20100301.b/0301a011.d
- Level 7: /chem3/fid3a.i/20100301.b/0301a012.d
- Level 8: /chem3/fid3a.i/20100224.b/0224a047.d
- Level 9: /chem3/fid3a.i/20100224.b/0224a048.d
- Level 10: /chem3/fid3a.i/20100224.b/0224a049.d
- Level 11: /chem3/fid3a.i/20100224.b/0224a050.d
- Level 12: /chem3/fid3a.i/20100224.b/0224a051.d
- Level 13: /chem3/fid3a.i/20100224.b/0224a052.d

| Compound | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | RRF | % RSD |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | |
| | 0.000e+00 | | | | | | | |
| | Level 13 | | | | | | | |
| 1 Toluene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | | | | | | ++++ | ++++ |
| 2 C8 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | | | | | | ++++ | ++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2009 14:16
 End Cal Date : 01-MAR-2010 18:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem3/fid3a.i/20100301.b/ftphfid3a.m
 Cal Date : 03-Mar-2010 13:24 marys
 Curve Type : Average

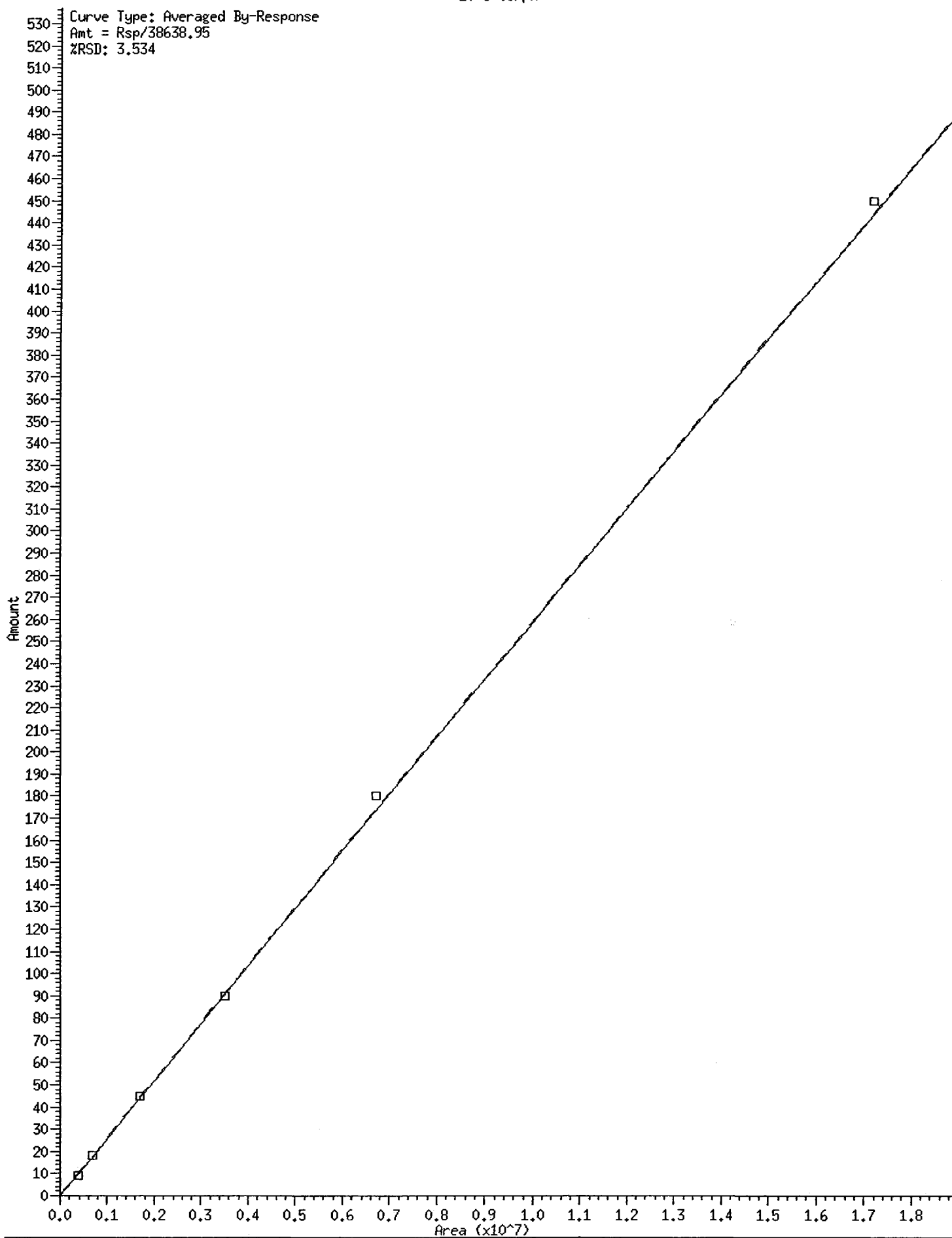
| Compound | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | RRF | % RSD |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | 0.000e+00 | | |
| | Level 7 | Level 8 | Level 9 | Level 10 | Level 11 | Level 12 | | |
| | 0.000e+00 | | | | | | | |
| | Level 13 | | | | | | | |
| 45 ak 103 | ++++ | 3362 | 1337 | 710 | 391 | 163 | | |
| | 0.00180 | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | | | | | | 994 | 126.045 <- |
| 46 azdiesel | ++++ | 0.08000 | 0.08000 | 0.02000 | 0.01000 | 0.00600 | | |
| | 0.00480 | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | | | | | | 0.03347 | 108.881 <- |
| \$ 20 o-terph | ++++ | 41201 | 38487 | 37824 | 38895 | 37333 | | |
| | 38093 | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | | | | | | 38639 | 3.534 |
| \$ 21 Triacon Surr | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | |
| | ++++ | 34547 | 35939 | 36233 | 37327 | 33871 | | |
| | 32867 | | | | | | 35131 | 4.719 |

* 20 o-terph

Curve Type: Averaged By-Response

Amt = Rsp/38638.95

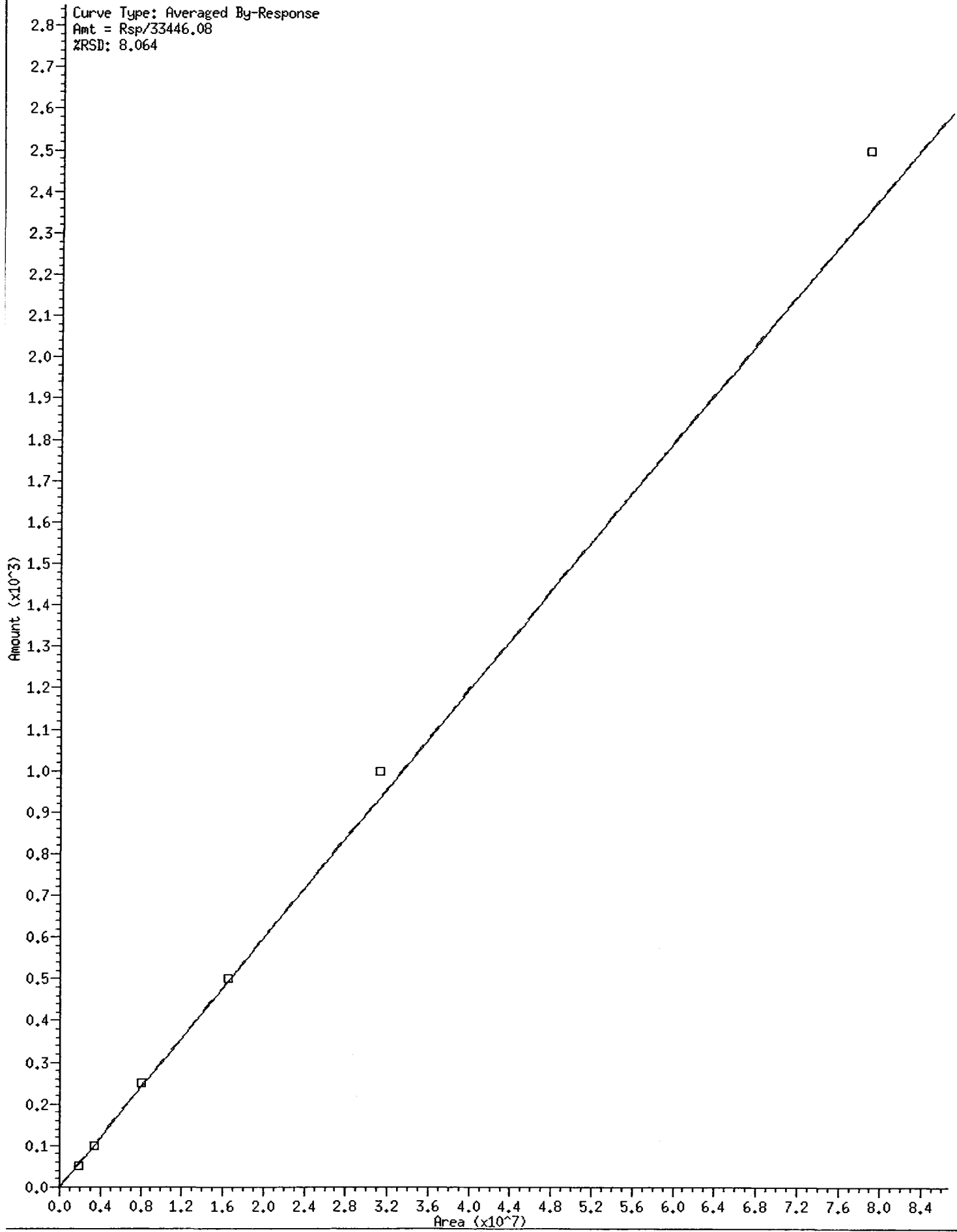
%RSD: 3.534



QN31 : 00453

24 AK Dies 102

Curve Type: Averaged By-Response
Amt = Rsp/33446.08
%RSD: 8.064

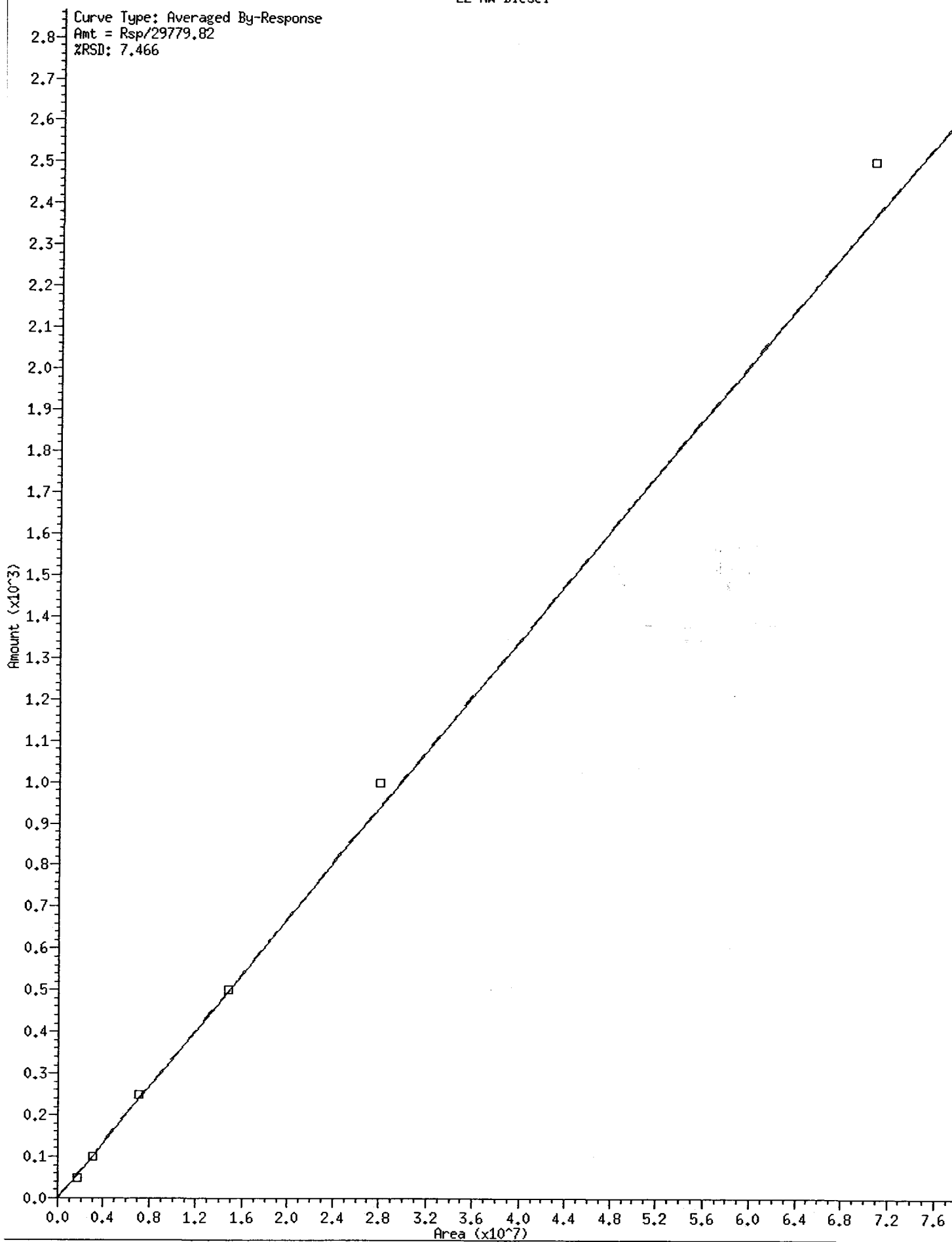


22 NW Diesel

Curve Type: Averaged By-Response

Amt = Rsp/29779.82

ZRSD: 7.466



8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ARI

SDG No.: 20100301

Project: DIESEL CURVE

Instrument ID: FID3A

GC Column: ZB1-HT

Run Date: 03/01/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|---------------|
| | | TERPH: 4.93 | TRIAC: 6.78 | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRIAC RT # |
| 01 RT | RT | 03/01/10 | 1620 | 4.93 | 6.78 |
| 02 IB | IB | 03/01/10 | 1637 | 4.93 | 6.79 |
| 03 DIESEL 50 | DIESEL 50 | 03/01/10 | 1655 | 4.93 | 6.78 |
| 04 DIESEL 100 | DIESEL 100 | 03/01/10 | 1712 | 4.93 | 6.78 |
| 05 DIESEL 250 | DIESEL 250 | 03/01/10 | 1730 | 4.93 | 6.78 |
| 06 DIESEL 500 | DIESEL 500 | 03/01/10 | 1747 | 4.94 | 6.78 |
| 07 DIESEL 1000 | DIESEL 1000 | 03/01/10 | 1804 | 4.94 | 6.78 |
| 08 | DIESEL 2500 | 03/01/10 | 1822 | 4.96 | 6.78 |

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a005.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: RT
Client ID: RT
Injection: 01-MAR-2010 16:20
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|-------|---------|--------|-------------------|------------|------|
| Toluene | 1.450 | 0.000 | 835375 | 689111 | GAS (Tol-C12) | 2215453 | 71 |
| C8 | 1.823 | 0.000 | 316809 | 431756 | DIESEL (C12-C24) | 2735795 | 92 |
| C10 | 3.044 | 0.000 | 942798 | 435389 | M.OIL (C24-C38) | 3597362 | 160 |
| C12 | 3.628 | 0.000 | 1067042 | 422469 | AK-102 (C10-C25) | 3641002 | 109 |
| C14 | 4.081 | 0.000 | 1013546 | 427628 | AK-103 (C25-C36) | 3099025 | 347 |
| C16 | 4.476 | 0.000 | 945040 | 422496 | OR.DIES (C10-C28) | 5199165 | 247 |
| C18 | 4.828 | 0.000 | 956977 | 436315 | OR.MOIL (C28-C40) | 2567952 | 228 |
| C20 | 5.149 | 0.000 | 906469 | 441133 | JET-A (C10-C18) | 2261330 | 143 |
| C22 | 5.468 | 0.000 | 782999 | 442869 | | | |
| C24 | 5.800 | 0.000 | 699853 | 450038 | STODDARD (C8-C12) | 1483278 | 54 |
| C25 | 5.968 | 0.000 | 944856 | 621974 | | | |
| C26 | 6.133 | 0.000 | 725211 | 454472 | | | |
| C28 | 6.463 | 0.000 | 651551 | 453990 | | | |
| C32 | 7.082 | 0.000 | 610208 | 466586 | | | |
| C34 | 7.368 | 0.000 | 593791 | 465718 | | | |
| Filter Peak | 9.041 | 0.000 | 10302 | 1440 | | | |
| C36 | 7.641 | 0.000 | 555499 | 480690 | CREOSOT (C8-C22) | 3754366 | 587 |
| C38 | 7.902 | 0.000 | 497204 | 440350 | | | |
| C40 | 8.149 | 0.000 | 475999 | 420523 | BUNKERC (C10-C38) | 7234538 | 837 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1701138 | 44.0 | 97.8 |
| Triacontane | 1570957 | 44.7 | 99.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

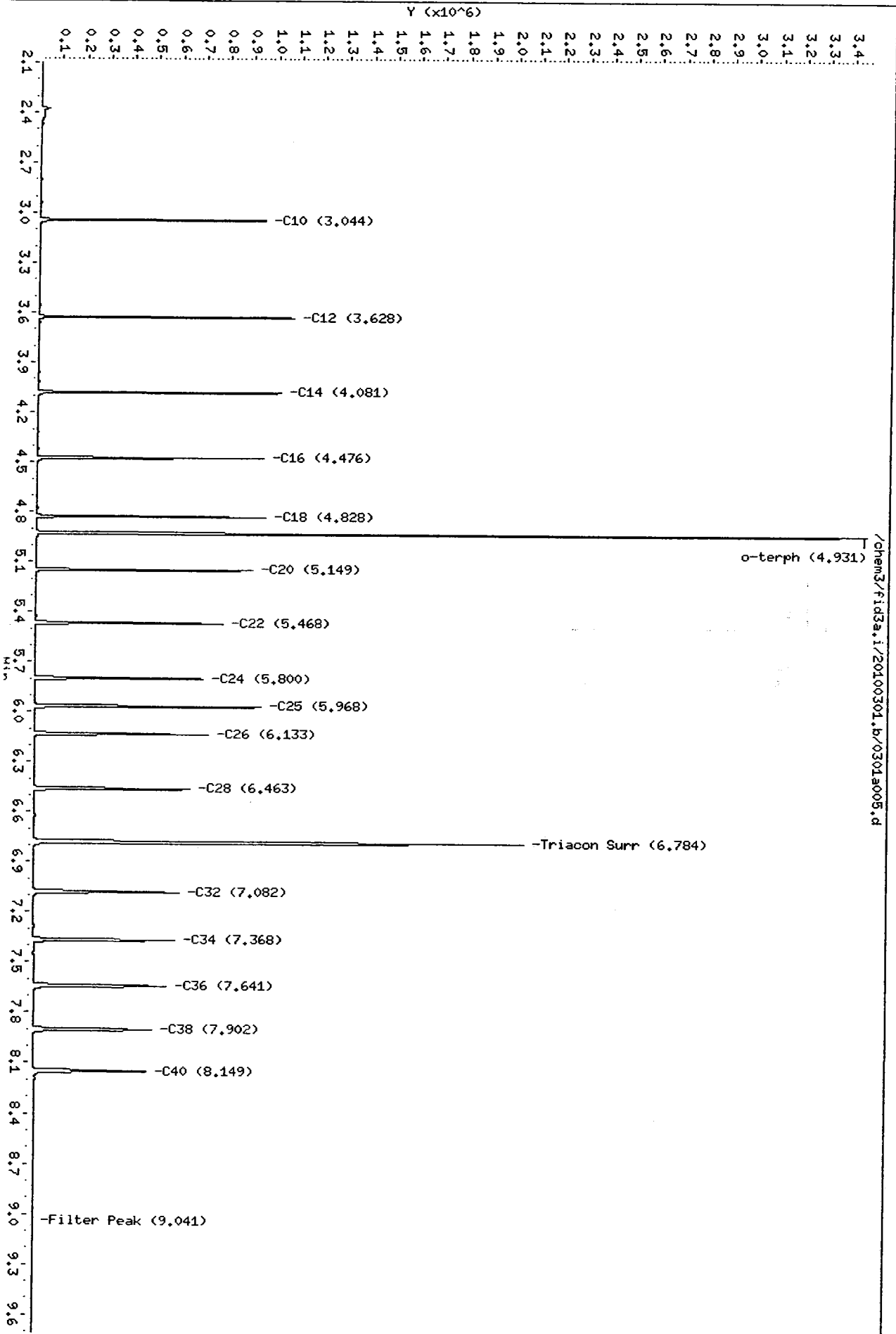
Data File: /chem3/fid3a.i/20100301.b/0301a005.d
Date: 01-MAR-2010 16:20

Client ID: RT
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Ms 3/31/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a006.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: IB
Client ID: IB
Injection: 01-MAR-2010 16:37
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|------|-------------------|------------|------|
| Toluene | 1.451 | 0.000 | 3445 | 1081 | GAS (Tol-C12) | 161861 | 5 |
| C8 | 1.821 | -0.002 | 1592 | 126 | DIESEL (C12-C24) | 65524 | 2 |
| C10 | 3.043 | -0.001 | 2588 | 2083 | M.OIL (C24-C38) | 236186 | 11 |
| C12 | 3.627 | -0.001 | 597 | 106 | AK-102 (C10-C25) | 99039 | 3 |
| C14 | 4.080 | -0.001 | 481 | 47 | AK-103 (C25-C36) | 169270 | 19 |
| C16 | 4.476 | 0.001 | 495 | 122 | OR.DIES (C10-C28) | 127006 | 6 |
| C18 | 4.827 | -0.001 | 525 | 224 | OR.MOIL (C28-C40) | 293559 | 26 |
| C20 | 5.150 | 0.000 | 606 | 174 | JET-A (C10-C18) | 66270 | 4 |
| C22 | 5.469 | 0.001 | 550 | 109 | | | |
| C24 | 5.799 | -0.001 | 652 | 89 | STODDARD (C8-C12) | 110853 | 4 |
| C25 | 5.968 | 0.000 | 694 | 176 | | | |
| C26 | 6.134 | 0.000 | 746 | 131 | | | |
| C28 | 6.461 | -0.002 | 1667 | 1175 | | | |
| C32 | 7.084 | 0.002 | 5042 | 7651 | | | |
| C34 | 7.368 | 0.000 | 2421 | 193 | | | |
| Filter Peak | 9.043 | 0.001 | 9328 | 931 | | | |
| C36 | 7.641 | 0.000 | 3345 | 265 | CREOSOT (C8-C22) | 165183 | 26 |
| C38 | 7.901 | -0.001 | 4879 | 680 | | | |
| C40 | 8.143 | -0.007 | 6757 | 538 | BUNKERC (C10-C38) | 332959 | 39 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

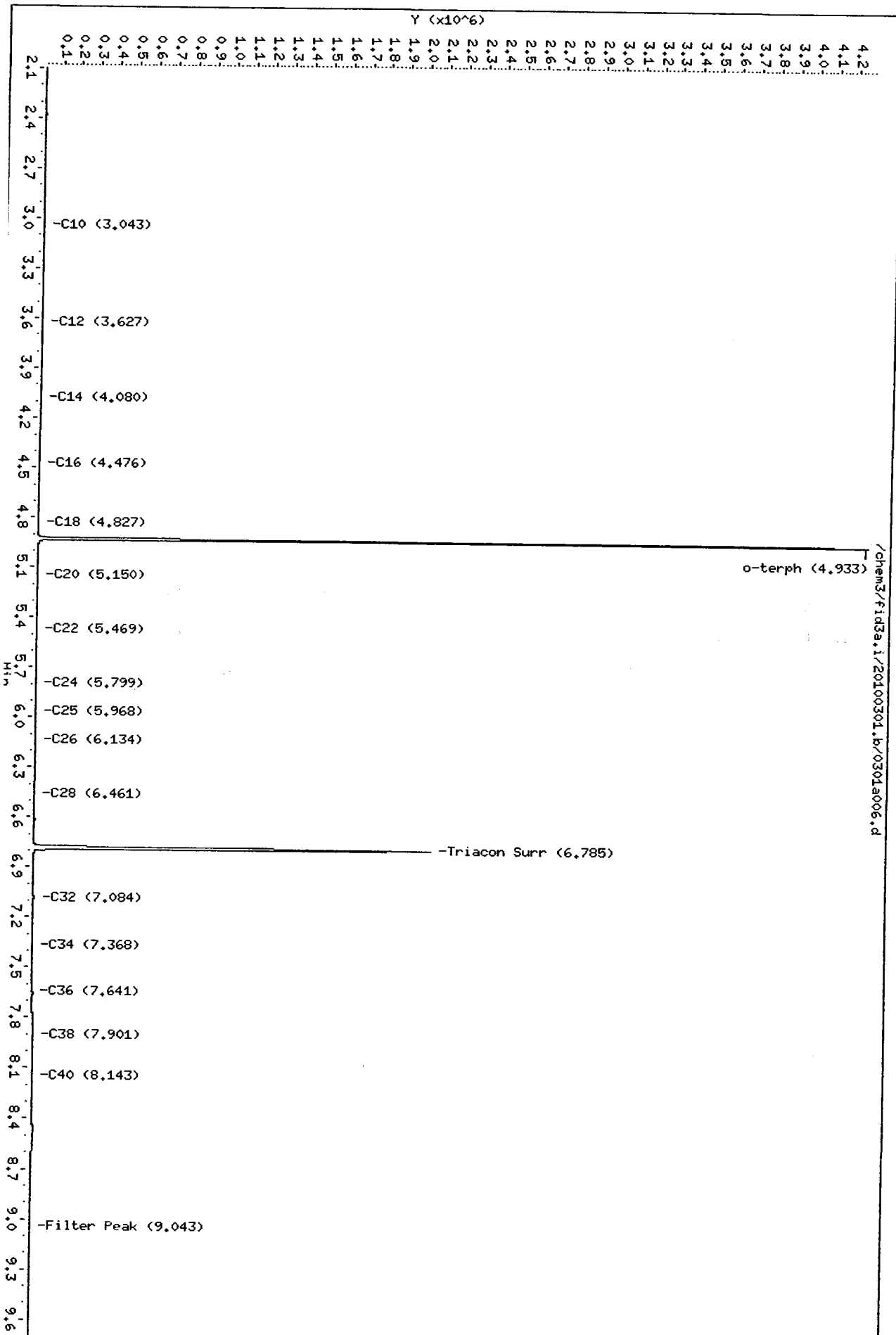
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2189983 | 56.7 | 126.0 |
| Triacontane | 1619903 | 46.1 | 102.5 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a006.d
Date: 01-MAR-2010 16:37
Client ID: IB
Sample Info: IB

Column Phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



MS 3/31/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a007.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 01-MAR-2010 16:55
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.460 | 0.010 | 10292 | 13248 | GAS (Tol-C12) | 434070 | 14 |
| C8 | 1.815 | -0.007 | 2139 | 619 | DIESEL (C12-C24) | 1695375 | 57 |
| C10 | 3.045 | 0.001 | 11484 | 6392 | M.OIL (C24-C38) | 316818 | 14 |
| C12 | 3.626 | -0.001 | 25529 | 17533 | AK-102 (C10-C25) | 1922275 | 57 |
| C14 | 4.080 | -0.001 | 44845 | 26926 | AK-103 (C25-C36) | 236779 | 27 |
| C16 | 4.474 | -0.001 | 82418 | 52237 | OR.DIES (C10-C28) | 1980163 | 94 |
| C18 | 4.828 | 0.000 | 75120 | 45652 | OR.MOIL (C28-C40) | 343591 | 30 |
| C20 | 5.149 | 0.000 | 43470 | 29095 | JET-A (C10-C18) | 1386140 | 87 |
| C22 | 5.468 | -0.001 | 17003 | 14460 | | | |
| C24 | 5.800 | 0.000 | 5409 | 5974 | STODDARD (C8-C12) | 368948 | 13 |
| C25 | 5.968 | 0.000 | 2944 | 2283 | | | |
| C26 | 6.133 | 0.000 | 1977 | 274 | | | |
| C28 | 6.463 | 0.000 | 1687 | 398 | | | |
| C32 | 7.088 | 0.007 | 3606 | 2783 | | | |
| C34 | 7.367 | -0.001 | 3064 | 792 | | | |
| Filter Peak | 9.040 | -0.001 | 10001 | 1997 | | | |
| C36 | 7.640 | -0.001 | 3840 | 459 | CREOSOT (C8-C22) | 1991358 | 311 |
| C38 | 7.903 | 0.002 | 4999 | 598 | | | |
| C40 | 8.152 | -0.003 | 7127 | 4413 | BUNKERC (C10-C38) | 2230605 | 258 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

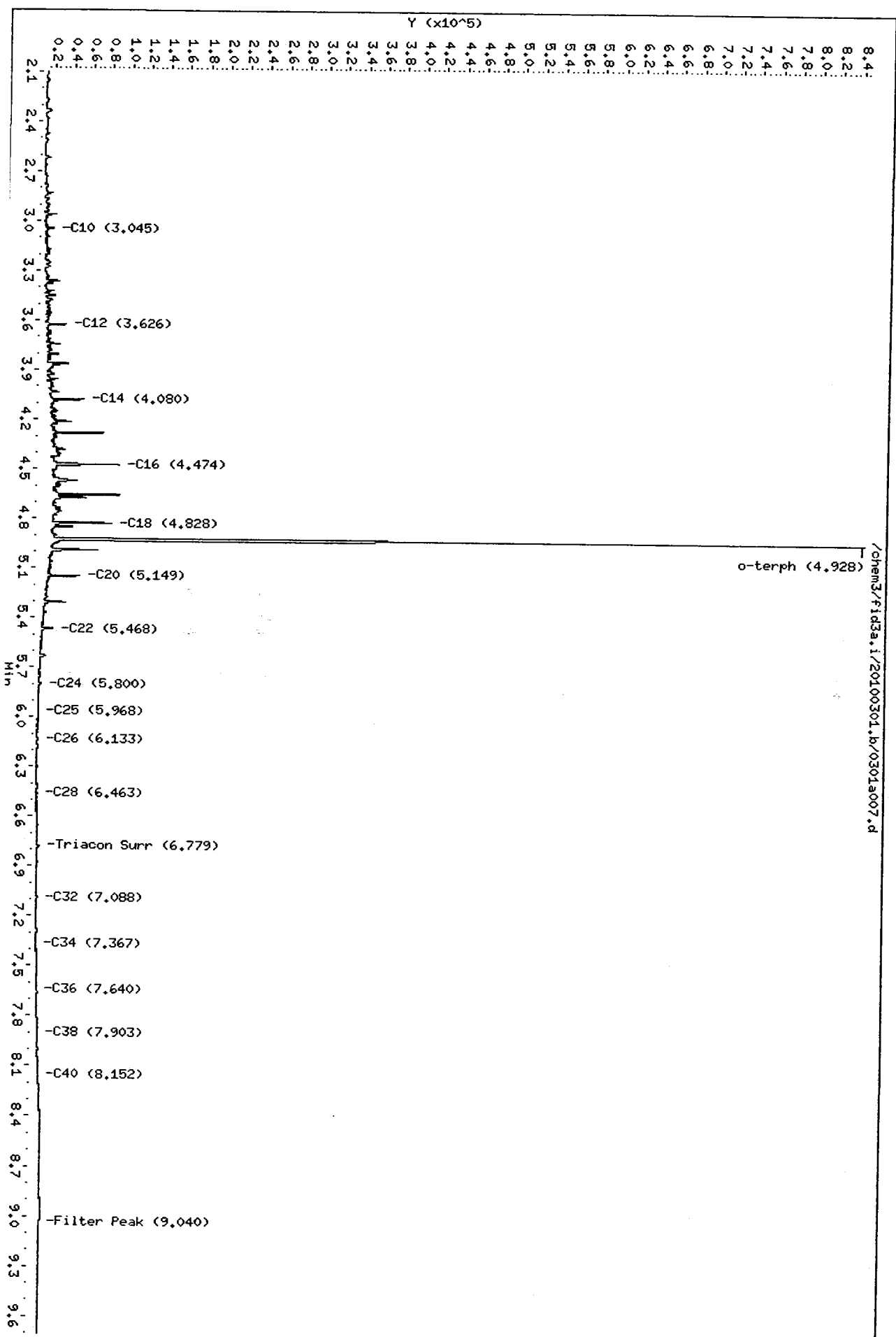
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 370811 | 9.6 | 21.3 |
| Triacontane | 4005 | 0.1 | 0.3 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a007.d
Date: 01-MAR-2010 16:55
Client ID: DIESEL 50
Sample Info: DIESEL 50

Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Ms 3/3/10

Data file: /chem3/fid3a.i/20100301.b/0301a008.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 01-MAR-2010 17:12
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.460 | 0.010 | 11207 | 13661 | GAS (Tol-C12) | 634611 | 20 |
| C8 | 1.829 | 0.006 | 3445 | 3207 | DIESEL (C12-C24) | 3042294 | 102 |
| C10 | 3.045 | 0.000 | 18849 | 10512 | M.OIL (C24-C38) | 319454 | 14 |
| C12 | 3.627 | -0.001 | 45412 | 32414 | AK-102 (C10-C25) | 3429252 | 103 |
| C14 | 4.081 | 0.000 | 81567 | 51758 | AK-103 (C25-C36) | 239276 | 27 |
| C16 | 4.475 | 0.000 | 153901 | 103524 | OR.DIES (C10-C28) | 3498067 | 166 |
| C18 | 4.828 | 0.000 | 142213 | 82171 | OR.MOIL (C28-C40) | 326481 | 29 |
| C20 | 5.148 | -0.001 | 79087 | 53056 | JET-A (C10-C18) | 2499041 | 158 |
| C22 | 5.467 | -0.002 | 33123 | 26981 | | | |
| C24 | 5.799 | -0.001 | 9356 | 8637 | STODDARD (C8-C12) | 568247 | 21 |
| C25 | 5.966 | -0.002 | 4716 | 5068 | | | |
| C26 | 6.133 | -0.001 | 2599 | 3438 | | | |
| C28 | 6.464 | 0.002 | 1645 | 262 | | | |
| C32 | 7.087 | 0.005 | 3350 | 2351 | | | |
| C34 | 7.368 | 0.000 | 2919 | 521 | | | |
| Filter Peak | 9.043 | 0.001 | 8969 | 1969 | | | |
| C36 | 7.642 | 0.001 | 3688 | 367 | CREOSOT (C8-C22) | 3489238 | 546 |
| C38 | 7.903 | 0.001 | 4813 | 1248 | | | |
| C40 | 8.151 | 0.002 | 6910 | 3888 | BUNKERC (C10-C38) | 3737880 | 432 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 692773 | 17.9 | 39.8 |
| Triacontane | 6924 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a008.d

Date : 01-MAR-2010 17:12

Client ID: DIESEL 100

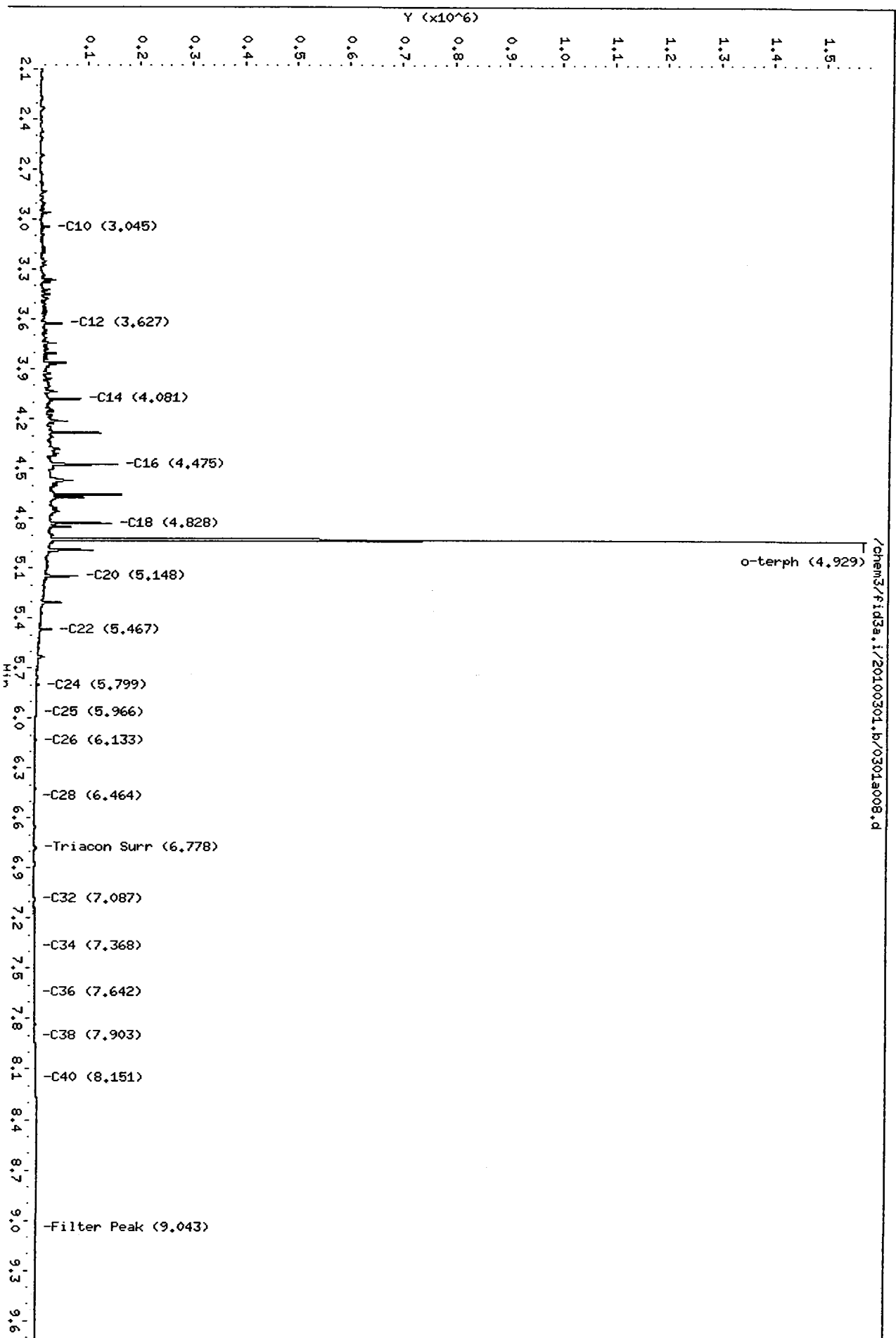
Sample Info: DIESEL 100

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Ms 3/3/10

Data file: /chem3/fid3a.i/20100301.b/0301a009.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 250
Client ID: DIESEL 250
Injection: 01-MAR-2010 17:30
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.445 | -0.005 | 4049 | 323 | GAS (Tol-C12) | 1273473 | 41 |
| C8 | 1.833 | 0.010 | 5498 | 6808 | DIESEL (C12-C24) | 7157993 | 240 |
| C10 | 3.046 | 0.002 | 44273 | 23114 | M.OIL (C24-C38) | 350261 | 16 |
| C12 | 3.627 | -0.001 | 112546 | 76743 | AK-102 (C10-C25) | 8033359 | 240 |
| C14 | 4.081 | 0.000 | 202027 | 116103 | AK-103 (C25-C36) | 262868 | 29 |
| C16 | 4.476 | 0.000 | 358170 | 236610 | OR.DIES (C10-C28) | 8130419 | 386 |
| C18 | 4.829 | 0.001 | 334168 | 199746 | OR.MOIL (C28-C40) | 316119 | 28 |
| C20 | 5.150 | 0.000 | 194652 | 121009 | JET-A (C10-C18) | 5857128 | 370 |
| C22 | 5.468 | 0.000 | 79921 | 65871 | | | |
| C24 | 5.800 | 0.000 | 23537 | 19592 | STODDARD (C8-C12) | 1185735 | 43 |
| C25 | 5.967 | -0.001 | 10627 | 11790 | | | |
| C26 | 6.134 | 0.001 | 4986 | 5600 | | | |
| C28 | 6.462 | -0.001 | 2012 | 476 | | | |
| C32 | 7.087 | 0.005 | 3262 | 3678 | | | |
| C34 | 7.368 | -0.001 | 2872 | 734 | | | |
| Filter Peak | 9.042 | 0.001 | 8473 | 846 | | | |
| C36 | 7.644 | 0.002 | 3657 | 1012 | CREOSOT (C8-C22) | 8074467 | 1262 |
| C38 | 7.902 | 0.000 | 4719 | 564 | | | |
| C40 | 8.151 | 0.002 | 6663 | 1583 | BUNKERC (C10-C38) | 8361712 | 967 |

Range Times: NW Diesel (3.678 - 5.850) NW Gas (1.400 - 3.678) NW M.Oil (5.850 - 7.952)
AK102 (2.994 - 5.918) AK103 (5.918 - 7.691) Jet A (2.994 - 4.878)

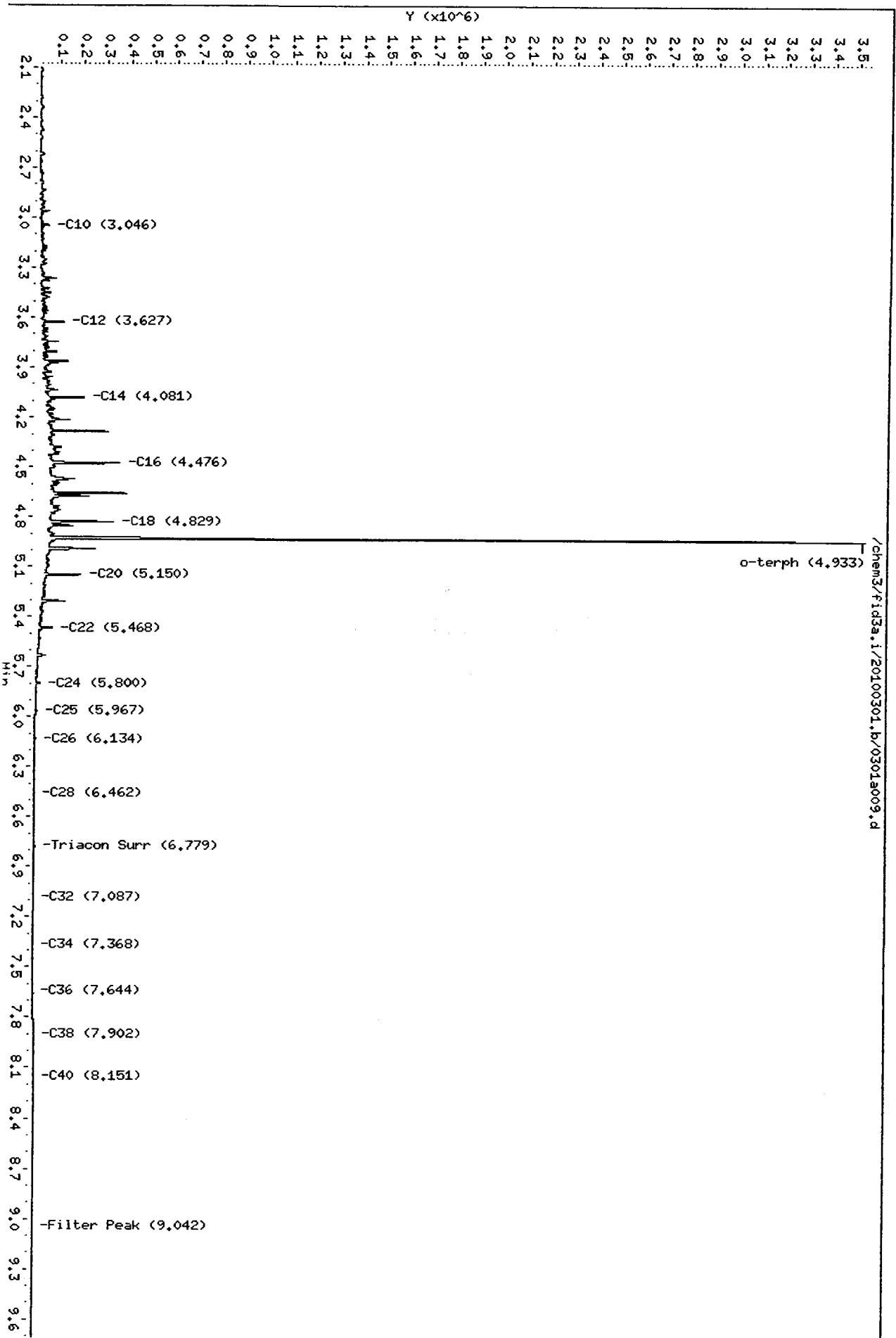
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1702067 | 44.1 | 97.9 |
| Triacontane | 6952 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a009.d
Date: 01-MAR-2010 17:30
Client ID: DIESEL 250
Sample Info: DIESEL 250

Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



00466 : 1EN3

M 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a010.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 500
Client ID: DIESEL 500
Injection: 01-MAR-2010 17:47
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.446 | -0.004 | 4525 | 1703 | GAS (Tol-C12) | 2419057 | 77 |
| C8 | 1.808 | -0.015 | 2334 | 416 | DIESEL (C12-C24) | 14791054 | 497 |
| C10 | 3.046 | 0.002 | 88961 | 46044 | M.OIL (C24-C38) | 446938 | 20 |
| C12 | 3.628 | 0.000 | 234962 | 161497 | AK-102 (C10-C25) | 16551236 | 495 |
| C14 | 4.082 | 0.001 | 431072 | 251354 | AK-103 (C25-C36) | 334306 | 37 |
| C16 | 4.476 | 0.001 | 745243 | 456147 | OR.DIES (C10-C28) | 16710650 | 792 |
| C18 | 4.830 | 0.001 | 668230 | 449294 | OR.MOIL (C28-C40) | 326301 | 29 |
| C20 | 5.150 | 0.001 | 422873 | 253374 | JET-A (C10-C18) | 12109610 | 764 |
| C22 | 5.469 | 0.000 | 167107 | 123228 | | | |
| C24 | 5.799 | -0.001 | 45715 | 42772 | STODDARD (C8-C12) | 2304412 | 83 |
| C25 | 5.967 | -0.001 | 20728 | 21392 | | | |
| C26 | 6.134 | 0.001 | 9146 | 9428 | | | |
| C28 | 6.462 | 0.000 | 2595 | 258 | | | |
| C32 | 7.086 | 0.004 | 3694 | 3394 | | | |
| C34 | 7.368 | 0.000 | 2956 | 294 | | | |
| Filter Peak | 9.040 | -0.001 | 8474 | 1353 | | | |
| C36 | 7.640 | -0.001 | 3632 | 434 | CREOSOT (C8-C22) | 16559626 | 2589 |
| C38 | 7.902 | 0.000 | 4711 | 753 | | | |
| C40 | 8.151 | 0.002 | 6530 | 1930 | BUNKERC (C10-C38) | 16951423 | 1961 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3500576 | 90.6 | 201.3 |
| Triacontane | 6696 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a010.d

Date: 01-MAR-2010 17:47

Client ID: DIESEL 500

Sample Info: DIESEL 500

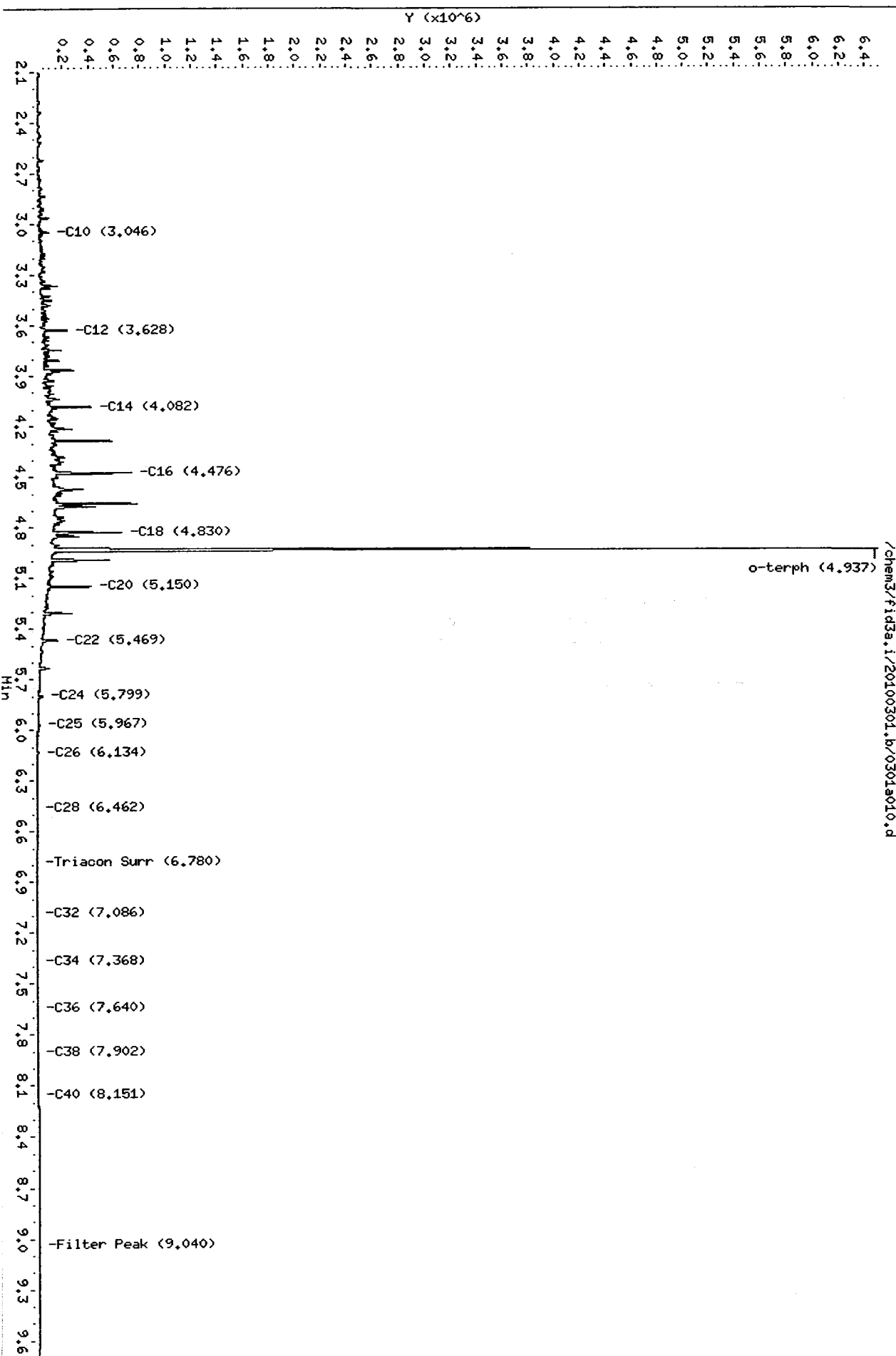
Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25

Page 1



QN31 00468

Ms 3/31/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a011.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 01-MAR-2010 18:04
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|---------|--------|-------------------|------------|------|
| Toluene | 1.451 | 0.001 | 4639 | 1385 | GAS (Tol-C12) | 4368093 | 139 |
| C8 | 1.809 | -0.013 | 2426 | 336 | DIESEL (C12-C24) | 27924612 | 938 |
| C10 | 3.047 | 0.003 | 169665 | 85428 | M.OIL (C24-C38) | 580905 | 26 |
| C12 | 3.628 | 0.000 | 446457 | 301029 | AK-102 (C10-C25) | 31203717 | 933 |
| C14 | 4.082 | 0.002 | 770468 | 470632 | AK-103 (C25-C36) | 438690 | 49 |
| C16 | 4.478 | 0.002 | 1456342 | 825764 | OR.DIES (C10-C28) | 31467811 | 1492 |
| C18 | 4.832 | 0.003 | 1239695 | 779815 | OR.MOIL (C28-C40) | 321847 | 29 |
| C20 | 5.151 | 0.002 | 724248 | 473813 | JET-A (C10-C18) | 22797011 | 1438 |
| C22 | 5.469 | 0.000 | 316400 | 237662 | | | |
| C24 | 5.799 | -0.001 | 93024 | 82752 | STODDARD (C8-C12) | 4243777 | 153 |
| C25 | 5.966 | -0.002 | 40542 | 42544 | | | |
| C26 | 6.133 | 0.000 | 15351 | 17773 | | | |
| C28 | 6.460 | -0.002 | 3481 | 2722 | | | |
| C32 | 7.087 | 0.006 | 3643 | 5302 | | | |
| C34 | 7.371 | 0.003 | 2889 | 858 | | | |
| Filter Peak | 9.040 | -0.001 | 8259 | 988 | | | |
| C36 | 7.642 | 0.001 | 3557 | 497 | CREOSOT (C8-C22) | 31165836 | 4873 |
| C38 | 7.903 | 0.001 | 4592 | 549 | | | |
| C40 | 8.147 | -0.002 | 6280 | 500 | BUNKERC (C10-C38) | 31707280 | 3668 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

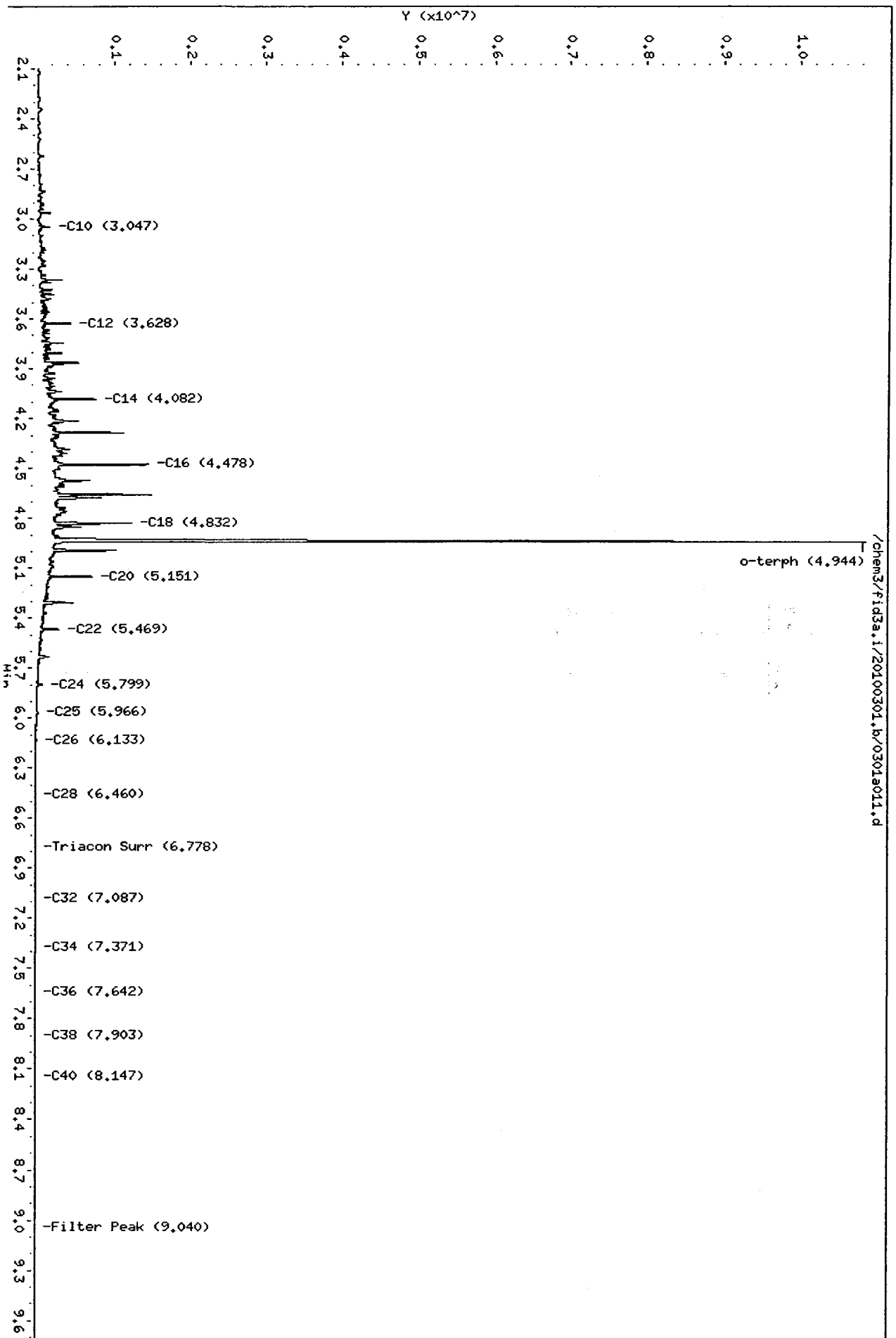
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 6719967 | 173.9 | 386.5 |
| Triacontane | 6800 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a011.d
Date: 01-MAR-2010 18:04
Client ID: DIESEL 1000
Sample Info: DIESEL 1000

Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



Ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a012.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 2500
Client ID:
Injection: 01-MAR-2010 18:22
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|---------|---------|-------------------|------------|-------|
| Toluene | 1.454 | 0.003 | 6455 | 8773 | GAS (Tol-C12) | 10667431 | 340 |
| C8 | 1.826 | 0.003 | 3980 | 1388 | DIESEL (C12-C24) | 70524539 | 2368 |
| C10 | 3.050 | 0.006 | 403114 | 214135 | M.OIL (C24-C38) | 1101958 | 49 |
| C12 | 3.629 | 0.001 | 1066617 | 766934 | AK-102 (C10-C25) | 78747163 | 2354 |
| C14 | 4.086 | 0.005 | 2029718 | 1209399 | AK-103 (C25-C36) | 820845 | 92 |
| C16 | 4.470 | -0.006 | 759053 | 364590 | OR.DIES (C10-C28) | 79369076 | 3763 |
| C18 | 4.837 | 0.008 | 2902999 | 2182229 | OR.MOIL (C28-C40) | 349156 | 31 |
| C20 | 5.156 | 0.006 | 1873187 | 1256621 | JET-A (C10-C18) | 57417010 | 3623 |
| C22 | 5.471 | 0.002 | 784812 | 624898 | | | |
| C24 | 5.801 | 0.001 | 237636 | 204910 | STODDARD (C8-C12) | 10439869 | 377 |
| C25 | 5.967 | -0.001 | 102110 | 102043 | | | |
| C26 | 6.133 | -0.001 | 40544 | 46562 | | | |
| C28 | 6.461 | -0.002 | 7060 | 8810 | | | |
| C32 | 7.088 | 0.006 | 4299 | 6952 | | | |
| C34 | 7.368 | -0.001 | 3016 | 239 | | | |
| Filter Peak | 9.042 | 0.001 | 8167 | 815 | | | |
| C36 | 7.641 | 0.000 | 3653 | 146 | CREOSOT (C8-C22) | 78431909 | 12263 |
| C38 | 7.903 | 0.001 | 4672 | 837 | | | |
| C40 | 8.147 | -0.003 | 6325 | 1253 | BUNKERC (C10-C38) | 79635056 | 9214 |

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

| Surrogate | Area | Amount | %Rec |
|-------------|----------|--------|-------|
| o-Terphenyl | 17141816 | 443.6 | 985.9 |
| Triacontane | 6687 | 0.2 | 0.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100301.b/0301a012.d

Date: 01-MAR-2010 18:22

Client ID:

Sample Info: DIESEL 2500

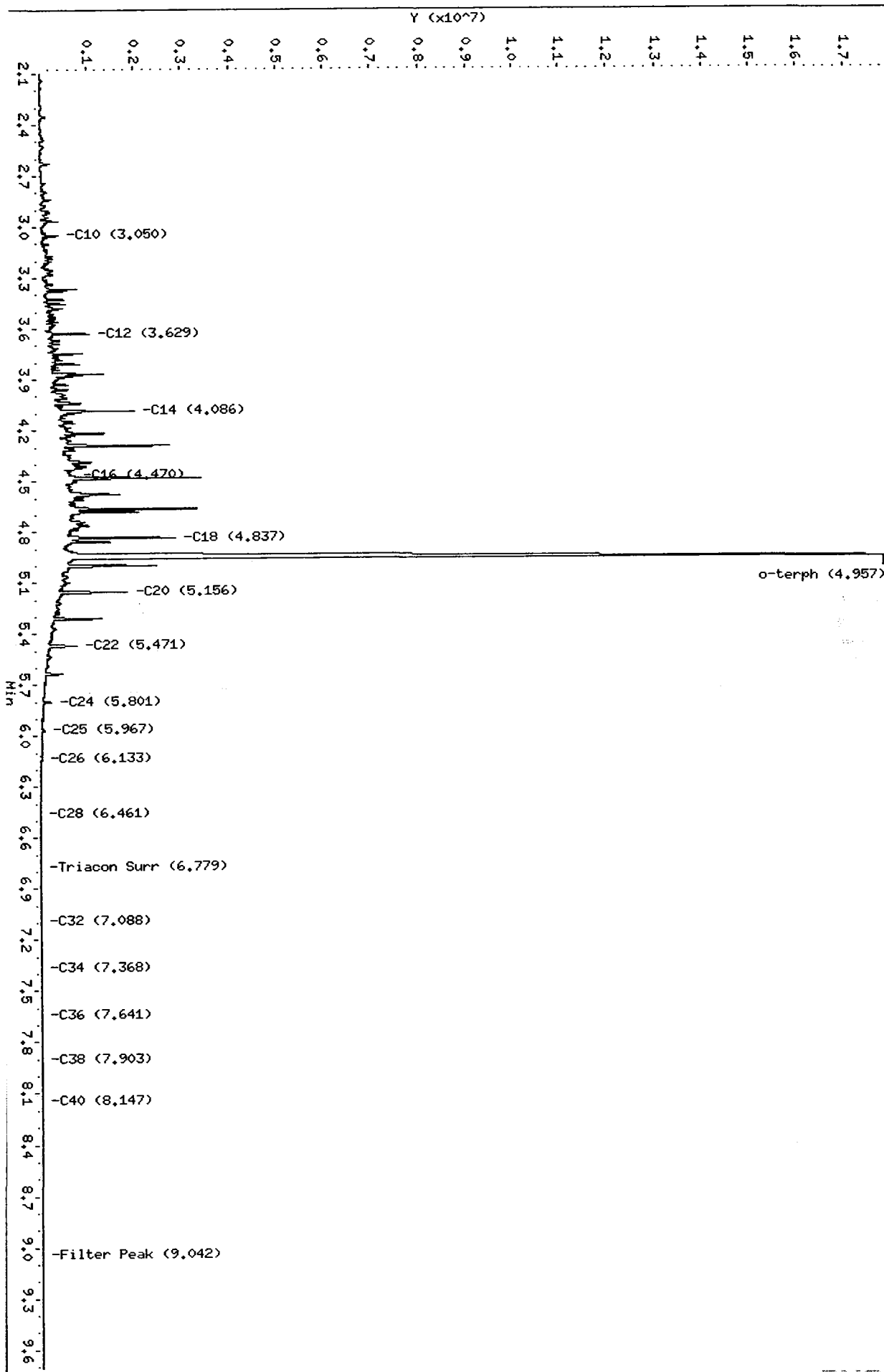
Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25

/chem3/fid3a.i/20100301.b/0301a012.d



Mr 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100303.b/0303a006.d
Method: /chem3/fid3a.i/20100303.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL ICV
Client ID:
Injection: 03-MAR-2010 15:09
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.439 | -0.010 | 3696 | 221 | GAS (Tol-C12) | 1717566 | 55 |
| C8 | 1.833 | 0.013 | 16726 | 25790 | DIESEL (C12-C24) | 7041902 | 236 |
| C10 | 3.045 | 0.002 | 82696 | 40763 | M.OIL (C24-C38) | 701437 | 31 |
| C12 | 3.627 | 0.000 | 188223 | 122537 | AK-102 (C10-C25) | 8242600 | 246 |
| C14 | 4.081 | 0.001 | 268291 | 168244 | AK-103 (C25-C36) | 584639 | 65 |
| C16 | 4.476 | 0.002 | 296781 | 214521 | OR.DIES (C10-C28) | 8439453 | 400 |
| C18 | 4.829 | 0.000 | 229000 | 165795 | OR.MOIL (C28-C40) | 559915 | 50 |
| C20 | 5.148 | -0.001 | 145542 | 122401 | JET-A (C10-C18) | 6319613 | 399 |
| C22 | 5.468 | -0.001 | 61016 | 47049 | | | |
| C24 | 5.800 | 0.001 | 18991 | 20693 | STODDARD (C8-C12) | 1610223 | 58 |
| C25 | 5.967 | -0.001 | 11736 | 12856 | | | |
| C26 | 6.133 | -0.001 | 8003 | 8517 | | | |
| C28 | 6.463 | 0.002 | 5741 | 1365 | | | |
| C32 | 7.078 | -0.002 | 6133 | 1693 | | | |
| C34 | 7.369 | 0.002 | 6108 | 2022 | | | |
| Filter Peak | 9.041 | 0.000 | 5990 | 478 | | | |
| C36 | 7.639 | -0.001 | 5805 | 1727 | CREOSOT (C8-C22) | 8425611 | 1317 |
| C38 | 7.897 | -0.002 | 5815 | 3434 | | | |
| C40 | 8.145 | -0.001 | 6182 | 616 | BUNKERC (C10-C38) | 8915125 | 1031 |

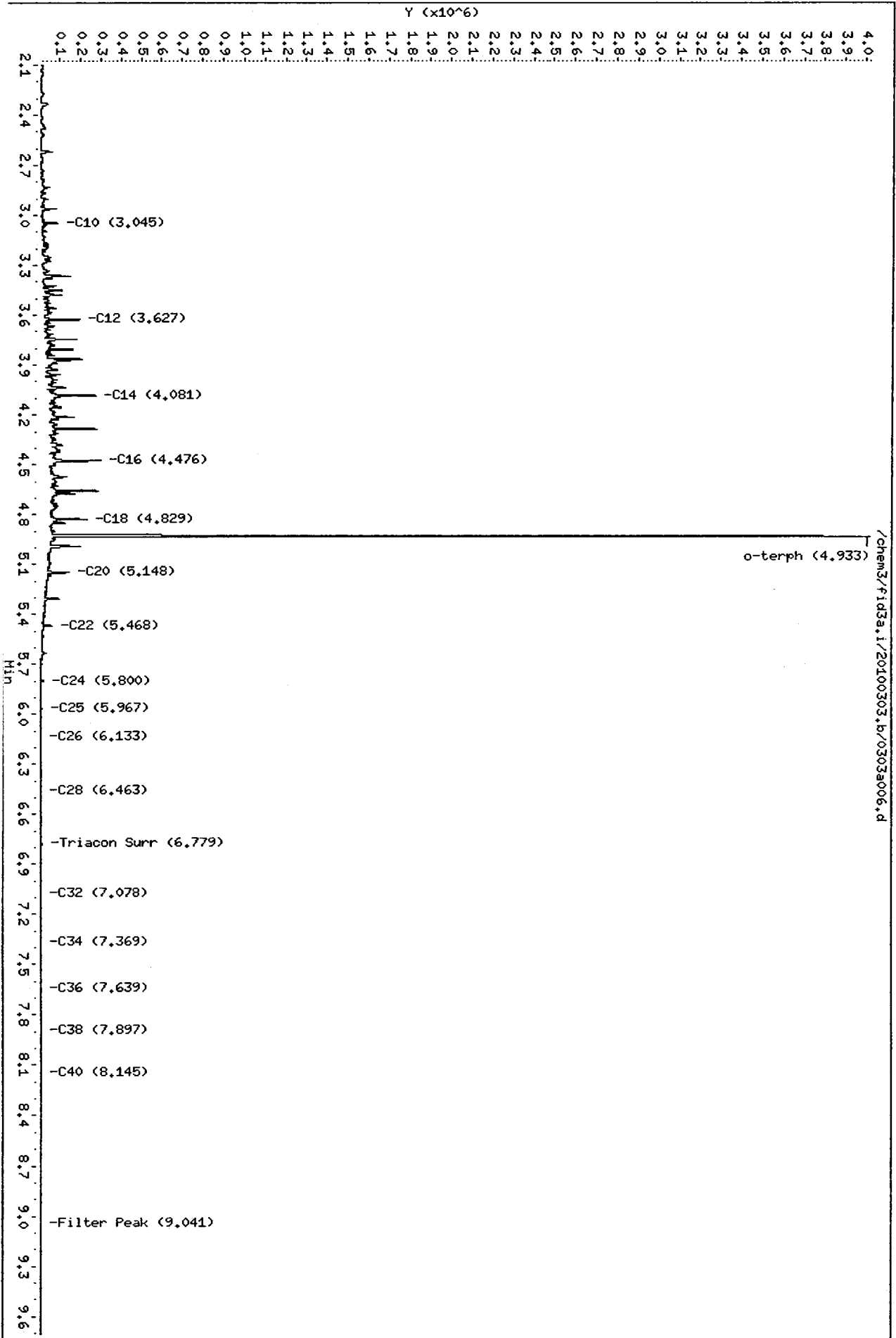
Range Times: NW Diesel(3.677 - 5.850) NW Gas(1.399 - 3.677) NW M.Oil(5.850 - 7.949)
AK102(2.994 - 5.918) AK103(5.918 - 7.690) Jet A(2.994 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1840979 | 47.6 | 105.9 |
| Triacontane | 15355 | 0.4 | 1.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 29779.8 | 01-MAR-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a,i/20100303,b/0303a006.d
Date: 03-MAR-2010 15:09
Client ID:
Sample Info: DIESEL ICV
Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID3A.I

Project: LORA LAKE APTS.

Calibration Date: 24-FEB-2010

SDG No.: QN31

| Motor Oil Range | RF1 100 | RF2 250 | RF3 500 | RF4 1000 | RF5 2500 | RF6 5000 | Ave RF | %RSD |
|-----------------|------------|------------|------------|-------------|-------------|-------------|----------|--------|
| WA M.Oil | 25503.80 | 23719.15 | 23364.88 | 23398.54 | 20454.95 | 18206.66 | 22441.34 | 11.732 |
| Triac Surr | 34547 | 35939 | 36233 | 37327 | 33871 | 32867 | 35131 | 4.7 |

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

Quant Ranges : WA M.Oil C24-C38

Calibration Files Analysis Time

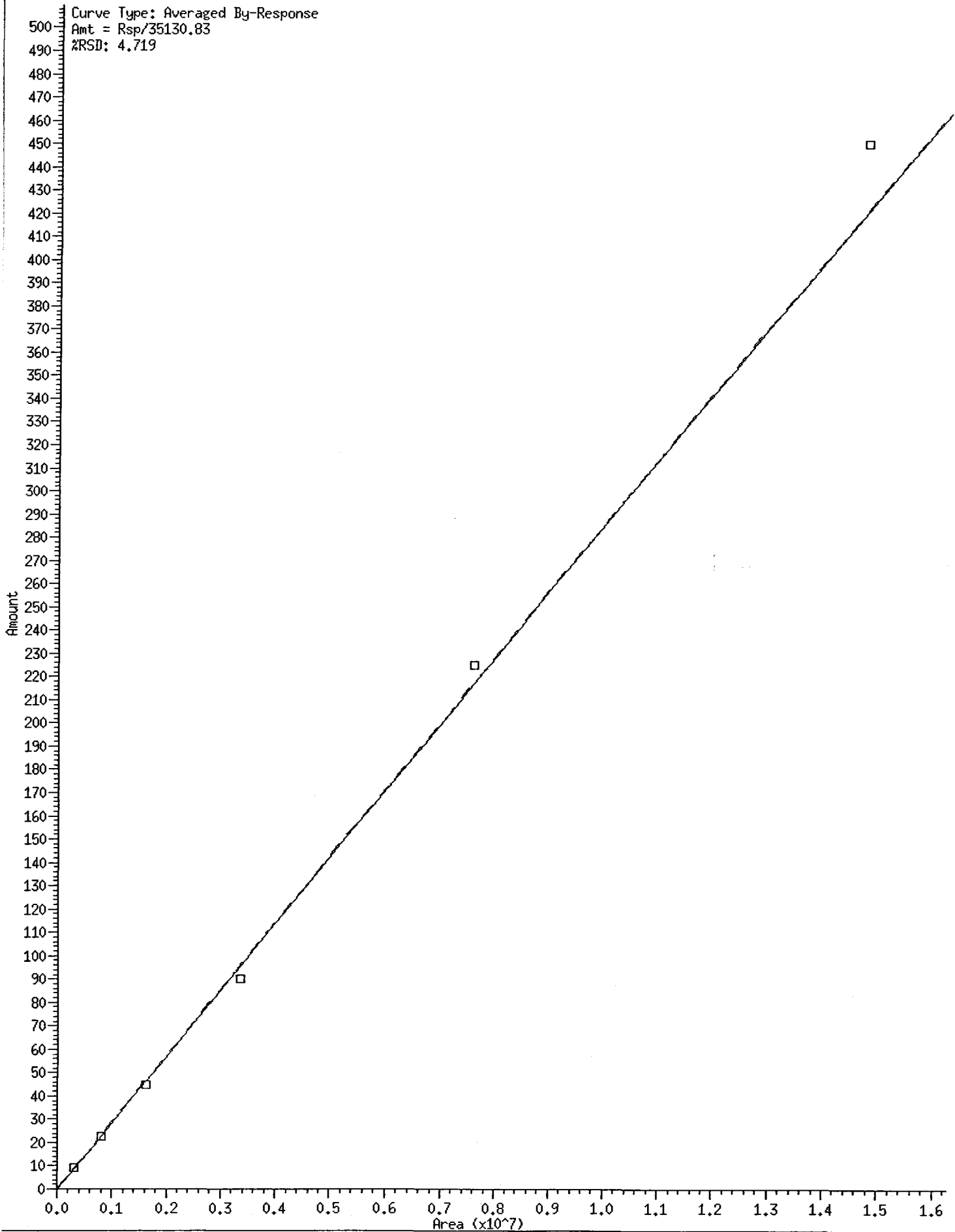
| | |
|------------|-------------------|
| 0224a047.d | 24-FEB-2010 20:48 |
| 0224a048.d | 24-FEB-2010 21:05 |
| 0224a049.d | 24-FEB-2010 21:22 |
| 0224a050.d | 24-FEB-2010 21:39 |
| 0224a051.d | 24-FEB-2010 21:56 |
| 0224a052.d | 24-FEB-2010 22:13 |

* 21 Triacon Surr

Curve Type: Averaged By-Response

Amt = Rsp/35130.83

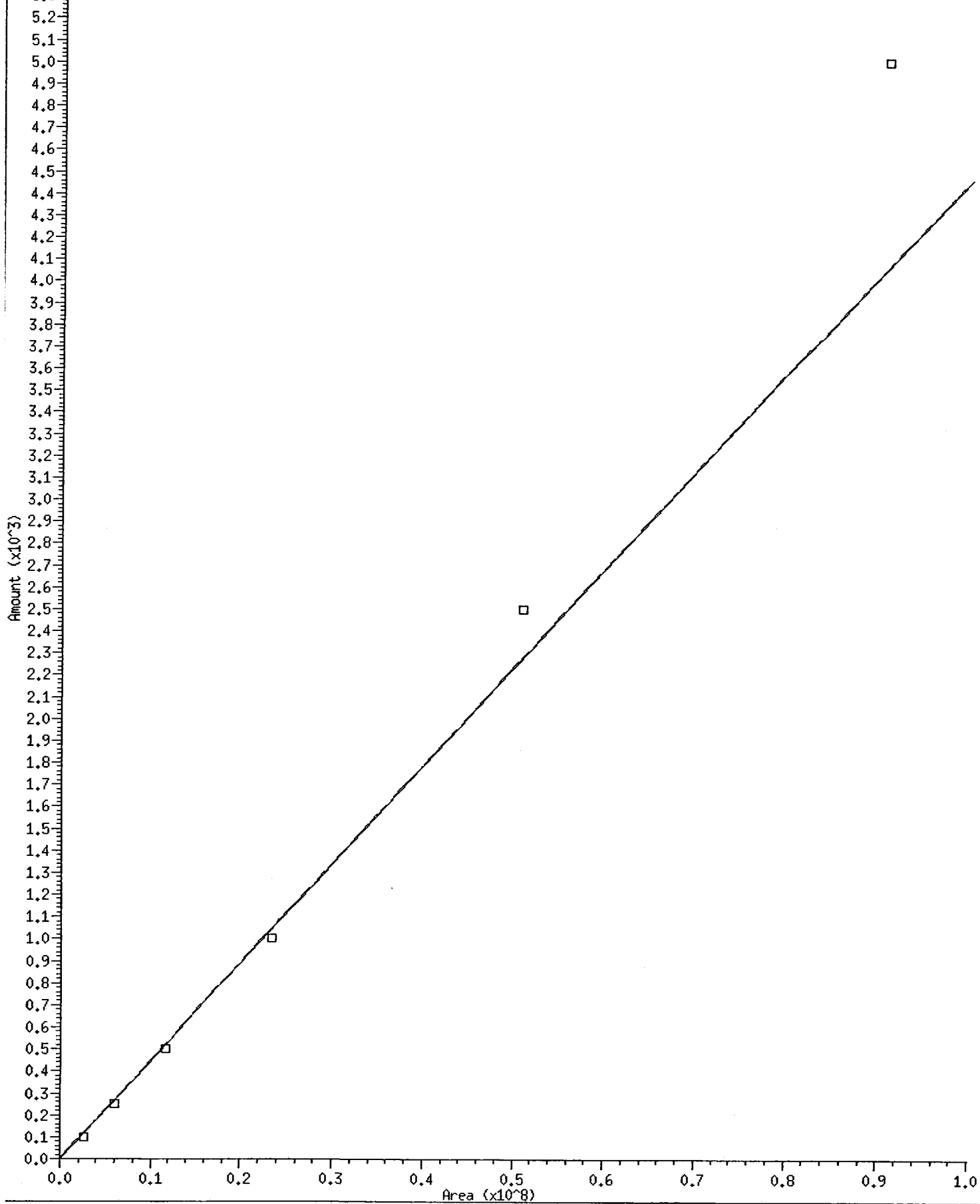
%RSD: 4.719



QN31 : 00476

25 NW Motor Oil

Curve Type: Averaged By-Response
Amt = Rsp/22441.34
%RSD: 11.732



8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ARI

SDG No.: 20100224

Project: MOTOR OIL CURVE

Instrument ID: FID3A

GC Column: ZB1-HT

Run Date: 02/24/10

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

| SURROGATE RT FROM DAILY STANDARD | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|---------------|
| | | TERPH: 4.93 | | TRIAc: 6.79 | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRIAc RT # |
| ===== | ===== | ===== | ===== | ===== | ===== |
| 01 RT | RT | 02/24/10 | 1756 | 4.93 | 6.79 |
| 02 IB | IB | 02/24/10 | 1814 | 4.93 | 6.79 |
| 03 MOIL 100 | MOIL 100 | 02/24/10 | 2048 | 4.93 | 6.78 |
| 04 MOIL 250 | MOIL 250 | 02/24/10 | 2105 | 4.93 | 6.79 |
| 05 MOIL 500 | MOIL 500 | 02/24/10 | 2122 | 4.93 | 6.79 |
| 06 MOIL 1000 | MOIL 1000 | 02/24/10 | 2139 | 4.93 | 6.80 |
| 07 MOIL 2500 | MOIL 2500 | 02/24/10 | 2156 | 4.94 | 6.81 |
| 08 MOIL 5000 | MOIL 5000 | 02/24/10 | 2213 | 4.93 | 6.83 |
| 09 MOIL ICV | MOIL ICV | 02/24/10 | 2230 | 4.93 | 6.79 |

TERPH = o-terph
TRIAc = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

M3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a037.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: RT
Client ID:
Injection: 24-FEB-2010 17:56
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|-------|---------|--------|-------------------|------------|------|
| Toluene | 1.448 | 0.000 | 1046718 | 836967 | GAS (Tol-C12) | 2670281 | 85 |
| C8 | 1.822 | 0.000 | 404921 | 509274 | DIESEL (C12-C24) | 3441370 | 166 |
| C10 | 3.045 | 0.000 | 1252689 | 538785 | M.OIL (C24-C38) | 3955200 | 176 |
| C12 | 3.628 | 0.000 | 1300209 | 531325 | AK-102 (C10-C25) | 4585228 | 182 |
| C14 | 4.081 | 0.000 | 1241287 | 536601 | AK-103 (C25-C36) | 3475413 | 389 |
| C16 | 4.475 | 0.000 | 1151267 | 542097 | OR.DIES (C10-C28) | 6374041 | 302 |
| C18 | 4.829 | 0.000 | 1264089 | 548814 | OR.MOIL (C28-C40) | 2637309 | 234 |
| C20 | 5.150 | 0.000 | 1157165 | 552634 | JET-A (C10-C18) | 2846811 | 180 |
| C22 | 5.470 | 0.000 | 984235 | 554351 | | | |
| C24 | 5.803 | 0.000 | 878595 | 564626 | STODDARD (C8-C12) | 1783394 | 64 |
| C25 | 5.972 | 0.000 | 1151023 | 615295 | | | |
| C26 | 6.139 | 0.000 | 848971 | 570927 | | | |
| C28 | 6.468 | 0.000 | 763881 | 568907 | | | |
| C32 | 7.088 | 0.000 | 728118 | 550485 | | | |
| C34 | 7.376 | 0.000 | 648643 | 509956 | | | |
| Filter Peak | 9.041 | 0.000 | 7517 | 1351 | | | |
| C36 | 7.650 | 0.000 | 601917 | 492831 | CREOSOT (C8-C22) | 4635200 | 725 |
| C38 | 7.909 | 0.000 | 512158 | 421963 | | | |
| C40 | 8.156 | 0.000 | 420856 | 399338 | BUNKERC (C10-C38) | 8536354 | 988 |

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2129653 | 49.2 | 109.2 |
| Triacontane | 1942114 | 55.3 | 122.8 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

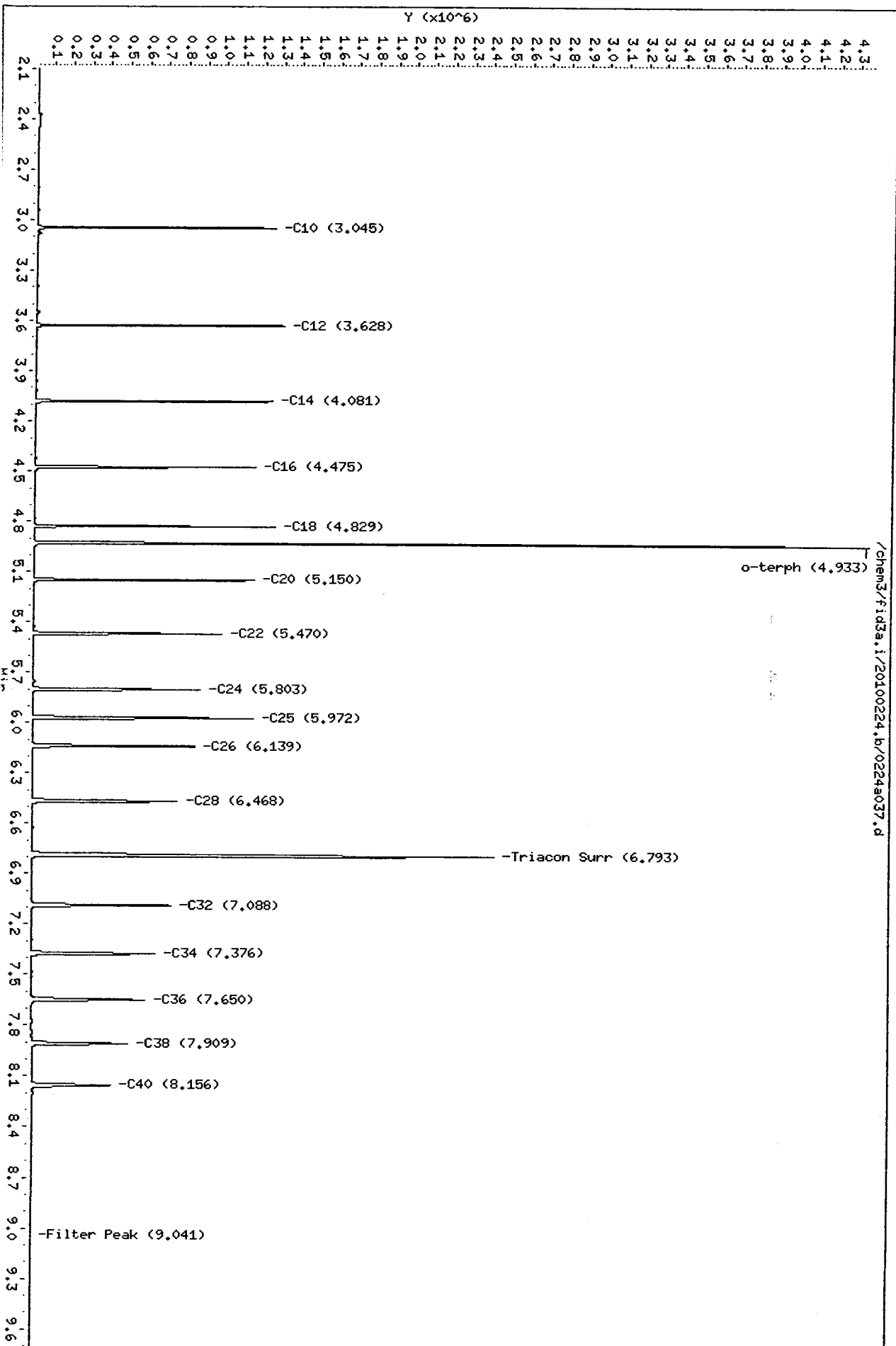
Data File: /chem3/fid3a.i/20100224.b/0224a037.d
Date: 24-FEB-2010 17:56

Client ID:
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



0N31 : 00480

Analytical Resources Inc.
TPH Quantitation Report

M 3/3/10

Data file: /chem3/fid3a.i/20100224.b/0224a038.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: IB
Client ID:
Injection: 24-FEB-2010 18:14
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|------|-------------------|------------|------|
| Toluene | 1.452 | 0.004 | 4195 | 3464 | GAS (Tol-C12) | 187464 | 6 |
| C8 | 1.829 | 0.007 | 2469 | 4416 | DIESEL (C12-C24) | 98856 | 5 |
| C10 | 3.045 | 0.000 | 3436 | 2491 | M.OIL (C24-C38) | 227434 | 10 |
| C12 | 3.628 | 0.000 | 1431 | 1077 | AK-102 (C10-C25) | 146130 | 6 |
| C14 | 4.081 | 0.001 | 870 | 328 | AK-103 (C25-C36) | 171036 | 19 |
| C16 | 4.477 | 0.002 | 1271 | 988 | OR.DIES (C10-C28) | 180843 | 9 |
| C18 | 4.828 | -0.002 | 1712 | 1204 | OR.MOIL (C28-C40) | 258694 | 23 |
| C20 | 5.150 | 0.000 | 1408 | 797 | JET-A (C10-C18) | 93689 | 6 |
| C22 | 5.470 | 0.000 | 1318 | 1170 | | | |
| C24 | 5.800 | -0.003 | 1376 | 745 | STODDARD (C8-C12) | 138769 | 5 |
| C25 | 5.971 | -0.001 | 1579 | 1762 | | | |
| C26 | 6.138 | -0.001 | 1482 | 1718 | | | |
| C28 | 6.464 | -0.004 | 2576 | 2633 | | | |
| C32 | 7.086 | -0.002 | 5797 | 8855 | | | |
| C34 | 7.376 | 0.000 | 2501 | 347 | | | |
| Filter Peak | 9.040 | -0.001 | 6915 | 1381 | | | |
| C36 | 7.650 | 0.000 | 3254 | 1719 | CREOSOT (C8-C22) | 217291 | 34 |
| C38 | 7.910 | 0.001 | 4146 | 1235 | | | |
| C40 | 8.160 | 0.004 | 5956 | 5220 | BUNKERC (C10-C38) | 370616 | 43 |

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2401424 | 55.4 | 123.2 |
| Triacontane | 1812152 | 51.6 | 114.6 |

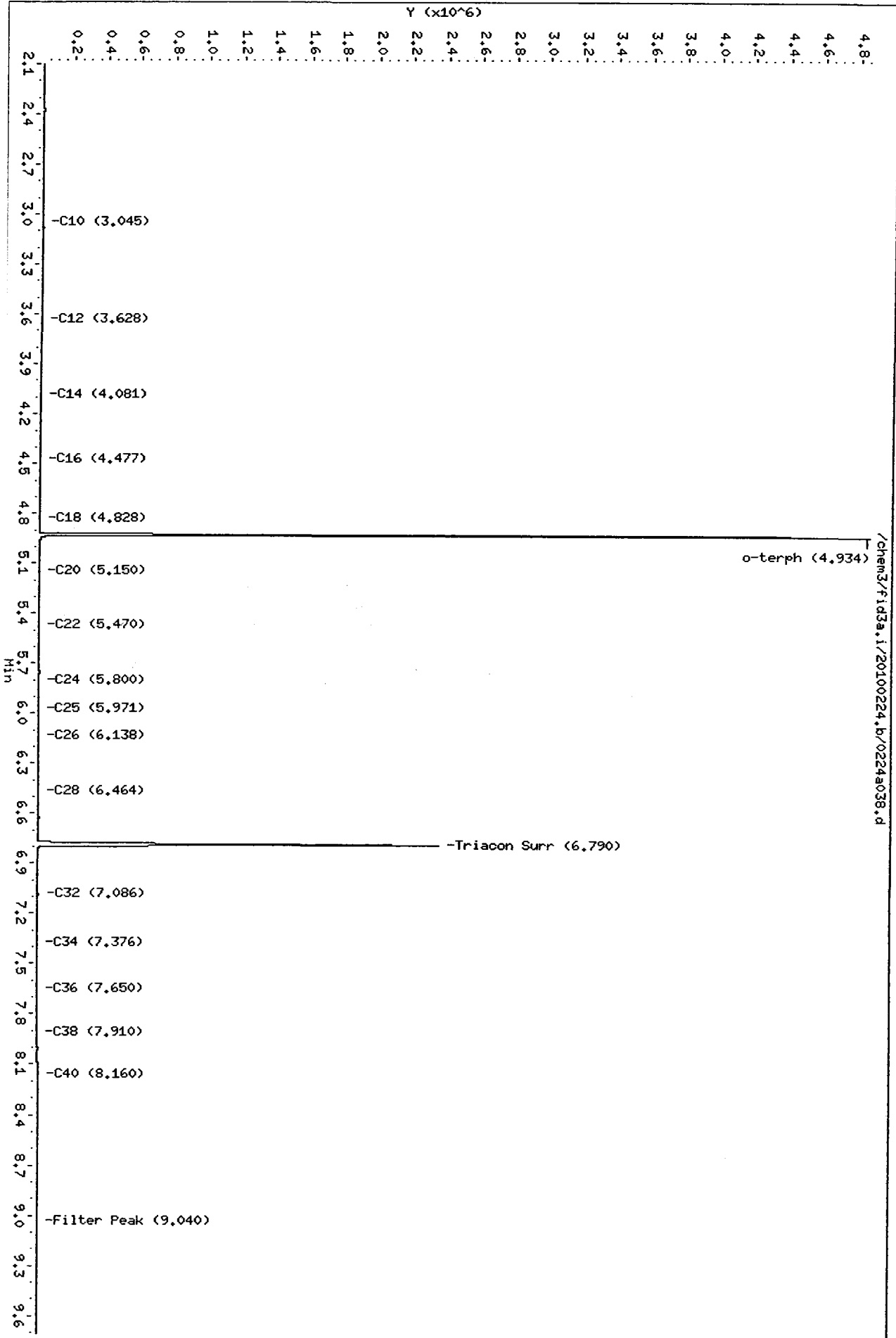
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100224.b/0224a038.d
Date : 24-FEB-2010 18:14

Client ID:
Sample Info: IB

Column phase: ZBI-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



0224: 00482

Analytical Resources Inc.
TPH Quantitation Report

ms 3/3/10

Data file: /chem3/fid3a.i/20100224.b/0224a047.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 100
Client ID:
Injection: 24-FEB-2010 20:48
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.453 | 0.004 | 7007 | 8696 | GAS (Tol-C12) | 198128 | 6 |
| C8 | 1.820 | -0.002 | 1996 | 274 | DIESEL (C12-C24) | 327418 | 16 |
| C10 | 3.045 | 0.000 | 1953 | 1557 | M.OIL (C24-C38) | 2550380 | 114 |
| C12 | 3.627 | -0.001 | 840 | 140 | AK-102 (C10-C25) | 413747 | 16 |
| C14 | 4.082 | 0.001 | 758 | 182 | AK-103 (C25-C36) | 2158785 | 242 |
| C16 | 4.476 | 0.000 | 704 | 82 | OR.DIES (C10-C28) | 976922 | 46 |
| C18 | 4.829 | -0.001 | 928 | 507 | OR.MOIL (C28-C40) | 2248170 | 199 |
| C20 | 5.151 | 0.001 | 2072 | 1523 | JET-A (C10-C18) | 84676 | 5 |
| C22 | 5.472 | 0.002 | 5693 | 1008 | | | |
| C24 | 5.805 | 0.002 | 11032 | 4722 | STODDARD (C8-C12) | 131886 | 5 |
| C25 | 5.973 | 0.001 | 13121 | 3585 | | | |
| C26 | 6.139 | 0.000 | 15369 | 5427 | | | |
| C28 | 6.470 | 0.001 | 18826 | 4424 | | | |
| C32 | 7.087 | -0.001 | 26030 | 17836 | | | |
| C34 | 7.376 | 0.000 | 26071 | 10129 | | | |
| Filter Peak | 9.041 | 0.000 | 8049 | 1284 | | | |
| C36 | 7.647 | -0.002 | 24239 | 10468 | CREOSOT (C8-C22) | 278440 | 44 |
| C38 | 7.914 | 0.004 | 21106 | 11155 | | | |
| C40 | 8.157 | 0.001 | 23365 | 15740 | BUNKERC (C10-C38) | 2917665 | 338 |

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 2543 | 0.1 | 0.1 |
| Triacontane | 310922 | 8.9 | 19.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

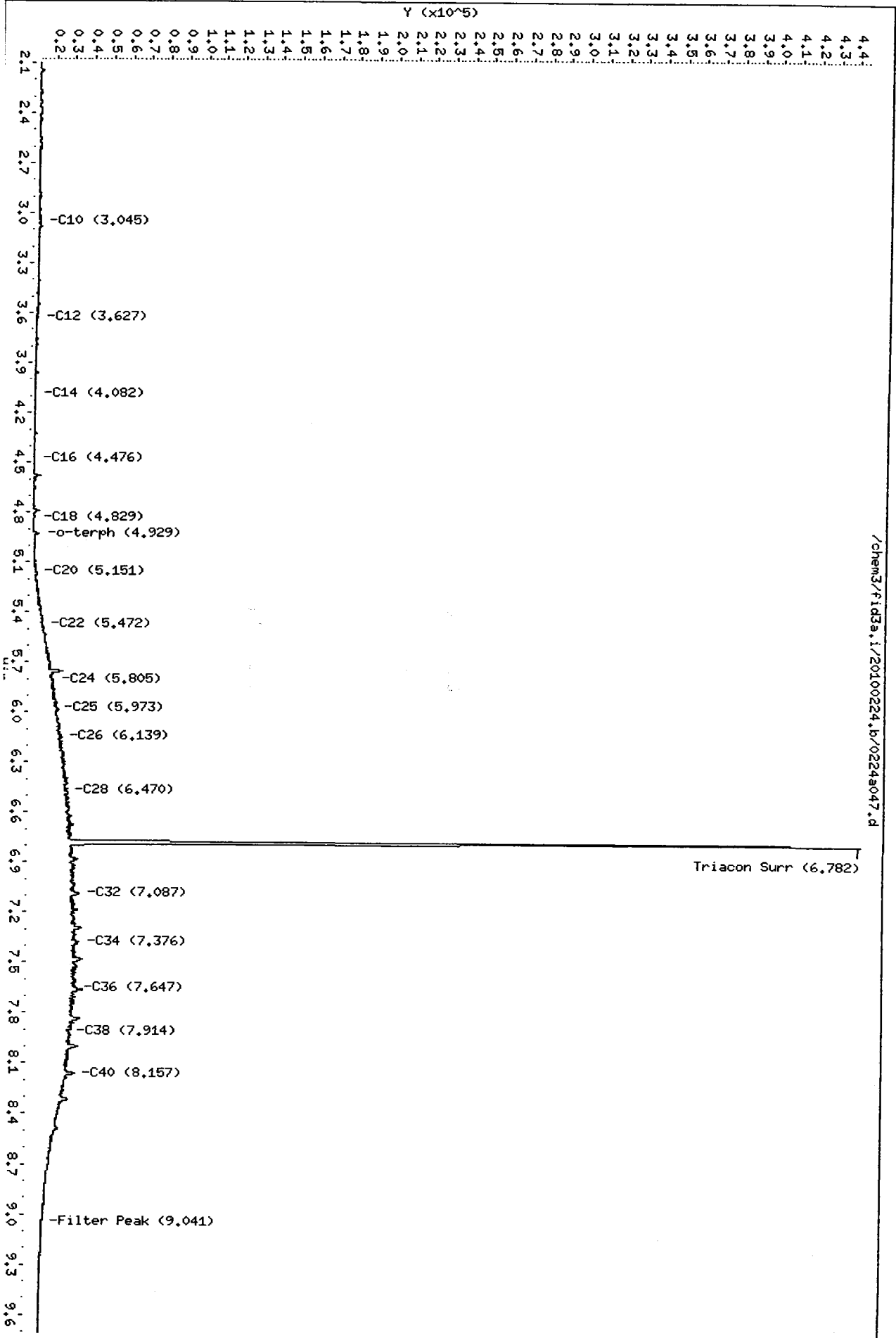
Data File: /chem3/fid3a.i/20100224.b/0224a047.d
Date : 24-FEB-2010 20:48

Client ID:
Sample Info: HOIL 100

Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25

/chem3/fid3a.i/20100224.b/0224a047.d



0224a047 : 00481

Analytical Resources Inc.
TPH Quantitation Report

ms 3/3/10

Data file: /chem3/fid3a.i/20100224.b/0224a048.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 250
Client ID:
Injection: 24-FEB-2010 21:05
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.455 | 0.007 | 6940 | 10809 | GAS (Tol-C12) | 194999 | 6 |
| C8 | 1.825 | 0.003 | 2103 | 773 | DIESEL (C12-C24) | 698439 | 34 |
| C10 | 3.045 | 0.000 | 2312 | 1762 | M.OIL (C24-C38) | 5929789 | 264 |
| C12 | 3.628 | 0.000 | 981 | 438 | AK-102 (C10-C25) | 855616 | 34 |
| C14 | 4.083 | 0.002 | 852 | 519 | AK-103 (C25-C36) | 5031445 | 563 |
| C16 | 4.476 | 0.001 | 817 | 234 | OR.DIES (C10-C28) | 2201421 | 104 |
| C18 | 4.830 | 0.001 | 1278 | 684 | OR.MOIL (C28-C40) | 5094829 | 452 |
| C20 | 5.150 | 0.000 | 4283 | 934 | JET-A (C10-C18) | 92033 | 6 |
| C22 | 5.467 | -0.003 | 12777 | 2545 | | | |
| C24 | 5.803 | 0.000 | 25374 | 5518 | STODDARD (C8-C12) | 129315 | 5 |
| C25 | 5.974 | 0.002 | 32573 | 12029 | | | |
| C26 | 6.142 | 0.002 | 37368 | 13983 | | | |
| C28 | 6.466 | -0.002 | 45455 | 19552 | | | |
| C32 | 7.087 | -0.002 | 55911 | 17484 | | | |
| C34 | 7.377 | 0.001 | 58867 | 14005 | | | |
| Filter Peak | 9.040 | -0.001 | 11445 | 8121 | | | |
| C36 | 7.649 | 0.000 | 52749 | 12479 | CREOSOT (C8-C22) | 406562 | 64 |
| C38 | 7.911 | 0.002 | 47197 | 13079 | | | |
| C40 | 8.153 | -0.003 | 42305 | 18226 | BUNKERC (C10-C38) | 6668212 | 771 |

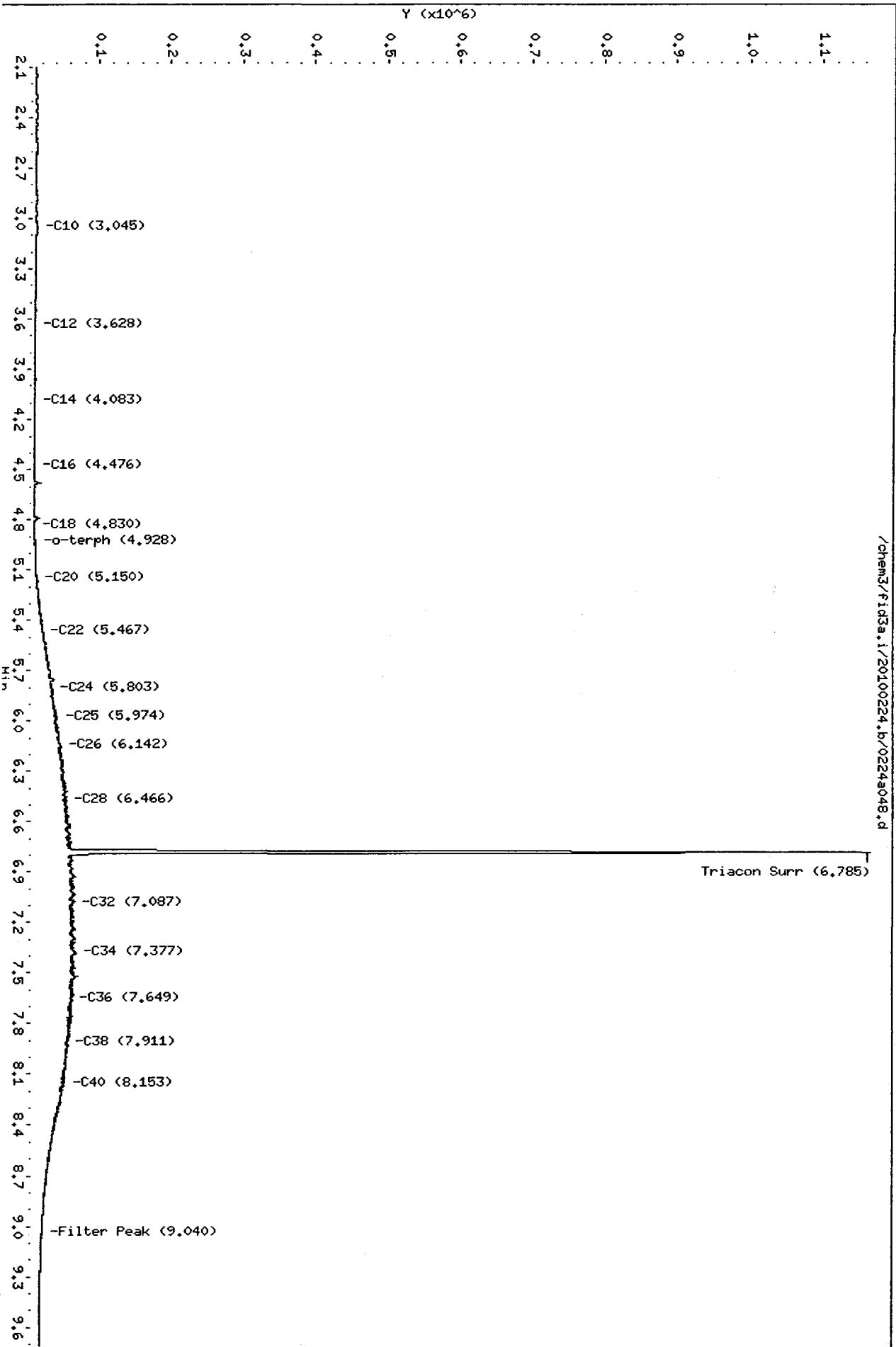
Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 2614 | 0.1 | 0.1 |
| Triacontane | 808634 | 23.0 | 51.2 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a,i/20100224,b/0224a048.d
Date: 24-FEB-2010 21:05
Client ID:
Sample Info: MOIL 250
Column phase: ZB1-HT

Instrument: fid3a,i
Operator: ms
Column diameter: 0.25



00486

Analytical Resources Inc.
TPH Quantitation Report

M3310

Data file: /chem3/fid3a.i/20100224.b/0224a049.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 500
Client ID:
Injection: 24-FEB-2010 21:22
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.457 | 0.009 | 7535 | 9021 | GAS (Tol-C12) | 204347 | 7 |
| C8 | 1.821 | -0.001 | 2025 | 321 | DIESEL (C12-C24) | 1344726 | 65 |
| C10 | 3.046 | 0.001 | 2828 | 2007 | M.OIL (C24-C38) | 11682443 | 521 |
| C12 | 3.629 | 0.001 | 1226 | 859 | AK-102 (C10-C25) | 1605034 | 64 |
| C14 | 4.082 | 0.001 | 1118 | 410 | AK-103 (C25-C36) | 9965200 | 1116 |
| C16 | 4.476 | 0.001 | 944 | 502 | OR.DIES (C10-C28) | 4294541 | 204 |
| C18 | 4.829 | 0.000 | 1876 | 1582 | OR.MOIL (C28-C40) | 9922819 | 880 |
| C20 | 5.150 | 0.000 | 7896 | 1886 | JET-A (C10-C18) | 106797 | 7 |
| C22 | 5.471 | 0.001 | 26052 | 6712 | | | |
| C24 | 5.802 | -0.001 | 50852 | 11016 | STODDARD (C8-C12) | 132917 | 5 |
| C25 | 5.971 | 0.000 | 61550 | 10900 | | | |
| C26 | 6.137 | -0.002 | 72680 | 24010 | | | |
| C28 | 6.468 | 0.000 | 92124 | 34021 | | | |
| C32 | 7.090 | 0.002 | 108293 | 34094 | | | |
| C34 | 7.378 | 0.002 | 114620 | 36238 | | | |
| Filter Peak | 9.042 | 0.001 | 12604 | 3266 | | | |
| C36 | 7.647 | -0.003 | 105157 | 53140 | CREOSOT (C8-C22) | 634421 | 99 |
| C38 | 7.913 | 0.004 | 89292 | 40248 | | | |
| C40 | 8.158 | 0.002 | 79329 | 30436 | BUNKERC (C10-C38) | 13067833 | 1512 |

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3304 | 0.1 | 0.2 |
| Triacontane | 1630480 | 46.4 | 103.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a,1/20100224,b/0224a049,d

Date : 24-FEB-2010 21:22

Client ID:

Sample Info: MOIL 500

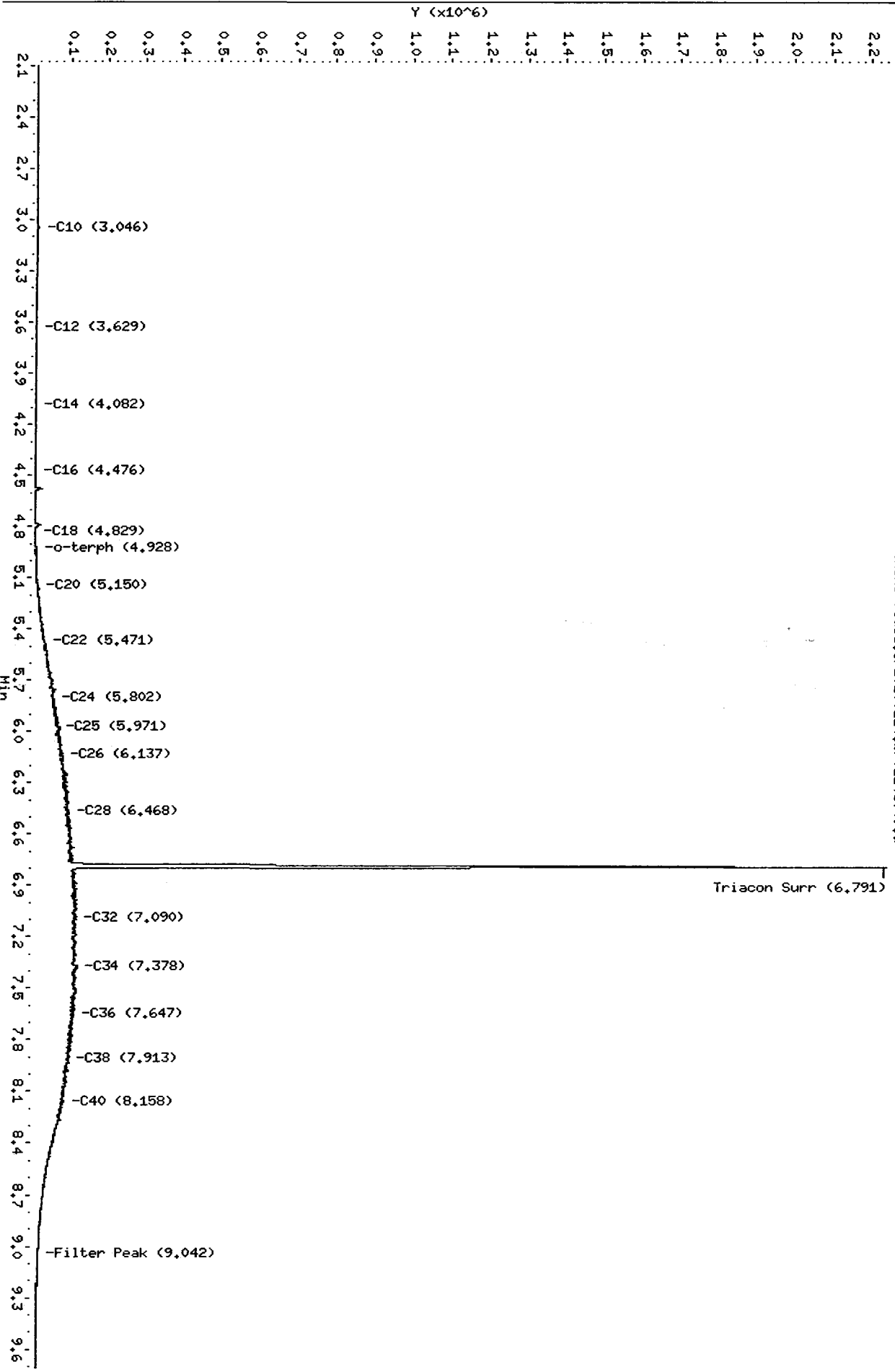
Column phase: ZB1-HT

Instrument: fid3a,1

Operator: ms

Column diameter: 0.25

/chem3/fid3a,1/20100224,b/0224a049,d



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a050.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 1000
Client ID:
Injection: 24-FEB-2010 21:39
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|---------------------|------------|------|
| Toluene | 1.457 | 0.009 | 7891 | 7846 | GAS (Tol-C12) | 203515 | 6 |
| C8 | 1.820 | -0.002 | 1898 | 226 | DIESEL (C12-C24) | 2730304 | 132 |
| C10 | 3.046 | 0.001 | 3887 | 2866 | M.OIL (C24-C38) | 23398548 | 1043 |
| C12 | 3.628 | 0.001 | 1874 | 1183 | AK-102 (C10-C25) | 3230297 | 128 |
| C14 | 4.082 | 0.001 | 1996 | 1386 | AK-103 (C25-C36) | 20106611 | 2251 |
| C16 | 4.476 | 0.000 | 1558 | 1137 | OR.DIESEL (C10-C28) | 8703994 | 413 |
| C18 | 4.828 | -0.002 | 3482 | 1829 | OR.MOIL (C28-C40) | 19463367 | 1726 |
| C20 | 5.151 | 0.001 | 16437 | 14051 | JET-A (C10-C18) | 159170 | 10 |
| C22 | 5.472 | 0.002 | 53615 | 20036 | | | |
| C24 | 5.804 | 0.001 | 104334 | 28733 | STODDARD (C8-C12) | 133408 | 5 |
| C25 | 5.971 | 0.000 | 126198 | 44078 | | | |
| C26 | 6.138 | -0.001 | 151603 | 92397 | | | |
| C28 | 6.467 | -0.001 | 177596 | 35227 | | | |
| C32 | 7.087 | -0.001 | 223165 | 79428 | | | |
| C34 | 7.372 | -0.004 | 223196 | 91338 | | | |
| Filter Peak | 9.040 | -0.001 | 9214 | 2203 | | | |
| C36 | 7.651 | 0.001 | 201304 | 78705 | CREOSOT (C8-C22) | 1143960 | 179 |
| C38 | 7.907 | -0.003 | 174383 | 65121 | | | |
| C40 | 8.156 | 0.000 | 124864 | 32257 | BUNKERC (C10-C38) | 26173799 | 3028 |

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 6259 | 0.1 | 0.3 |
| Triacontane | 3359456 | 95.6 | 212.5 |

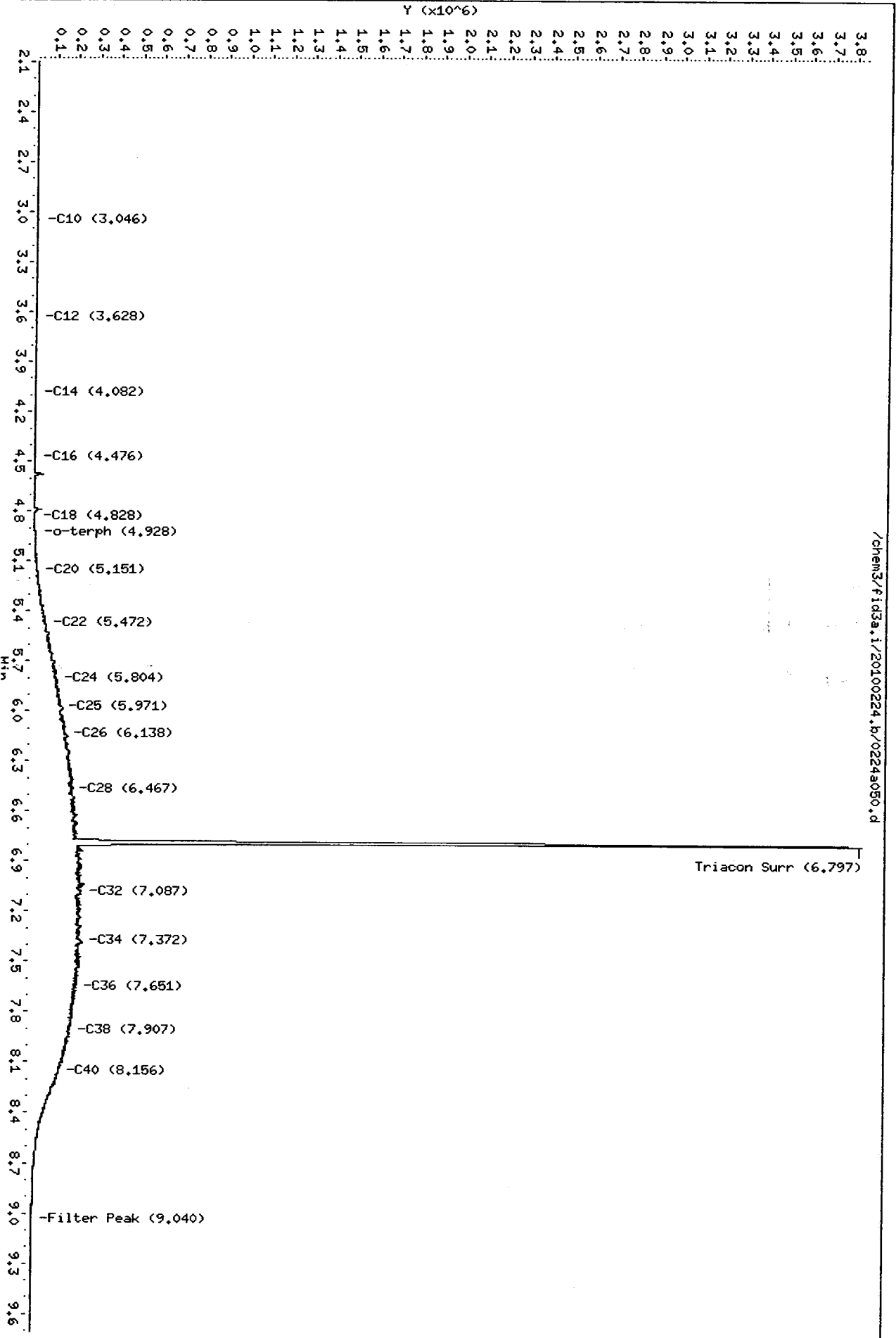
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100224.b/0224a050.d
Date: 24-FEB-2010 21:39

Client ID:
Sample Info: MOLL 1000

Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



00490 : 1031

Analytical Resources Inc.
TPH Quantitation Report

M 3/31/10

Data file: /chem3/fid3a.i/20100224.b/0224a051.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 2500
Client ID:
Injection: 24-FEB-2010 21:56
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.438 | -0.011 | 9460 | 13319 | GAS (Tol-C12) | 219433 | 7 |
| C8 | 1.822 | 0.000 | 1875 | 223 | DIESEL (C12-C24) | 6256556 | 302 |
| C10 | 3.047 | 0.002 | 7074 | 4381 | M.OIL (C24-C38) | 51137398 | 2279 |
| C12 | 3.628 | 0.001 | 3568 | 2160 | AK-102 (C10-C25) | 7361263 | 292 |
| C14 | 4.082 | 0.001 | 3964 | 2460 | AK-103 (C25-C36) | 45148109 | 5054 |
| C16 | 4.477 | 0.001 | 3072 | 2506 | OR.DIES (C10-C28) | 20028753 | 950 |
| C18 | 4.831 | 0.001 | 7852 | 7362 | OR.MOIL (C28-C40) | 39521171 | 3506 |
| C20 | 5.149 | -0.001 | 37925 | 22054 | JET-A (C10-C18) | 279812 | 18 |
| C22 | 5.469 | -0.001 | 122934 | 50060 | | | |
| C24 | 5.801 | -0.002 | 231815 | 86647 | STODDARD (C8-C12) | 144011 | 5 |
| C25 | 5.972 | 0.000 | 284522 | 50914 | | | |
| C26 | 6.143 | 0.004 | 342902 | 122283 | | | |
| C28 | 6.467 | -0.001 | 415345 | 98062 | | | |
| C32 | 7.091 | 0.003 | 506175 | 206712 | | | |
| C34 | 7.375 | -0.001 | 474735 | 122447 | | | |
| Filter Peak | 9.043 | 0.002 | 11957 | 3316 | | | |
| C36 | 7.648 | -0.002 | 426362 | 116668 | CREOSOT (C8-C22) | 2436450 | 381 |
| C38 | 7.913 | 0.003 | 263676 | 98646 | | | |
| C40 | 8.159 | 0.003 | 97713 | 27217 | BUNKERC (C10-C38) | 57446809 | 6646 |

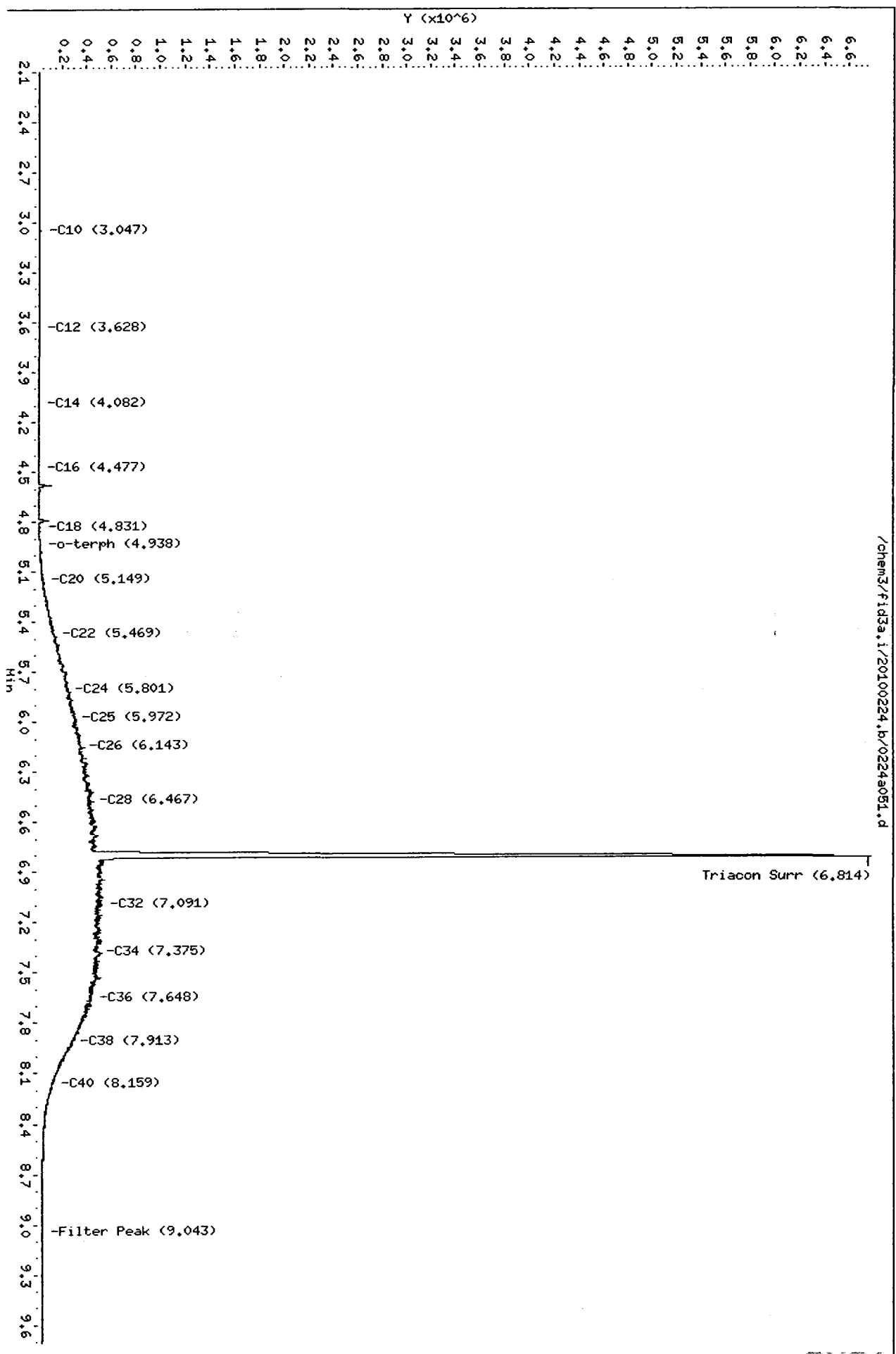
Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2292 | 0.1 | 0.1 |
| Triacontane | 7621059 | 216.9 | 482.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100224.b/0224a051.d
Date: 24-FEB-2010 21:56
Client ID:
Sample Info: M01L 2500
Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



020402 : 13ND

Analytical Resources Inc.
TPH Quantitation Report

ms 3/3/10

Data file: /chem3/fid3a.i/20100224.b/0224a052.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 5000
Client ID:
Injection: 24-FEB-2010 22:13
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.448 | -0.001 | 5302 | 1474 | GAS (Tol-C12) | 245452 | 8 |
| C8 | 1.823 | 0.001 | 1788 | 178 | DIESEL (C12-C24) | 12592304 | 608 |
| C10 | 3.049 | 0.004 | 12800 | 7226 | M.OIL (C24-C38) | 91033308 | 4057 |
| C12 | 3.629 | 0.001 | 6623 | 4568 | AK-102 (C10-C25) | 14806479 | 588 |
| C14 | 4.082 | 0.001 | 6614 | 4097 | AK-103 (C25-C36) | 85050200 | 9521 |
| C16 | 4.476 | 0.000 | 5270 | 4143 | OR.DIES (C10-C28) | 40313896 | 1912 |
| C18 | 4.830 | 0.001 | 15620 | 11906 | OR.MOIL (C28-C40) | 64620144 | 5732 |
| C20 | 5.152 | 0.002 | 75660 | 67102 | JET-A (C10-C18) | 477804 | 30 |
| C22 | 5.469 | -0.001 | 235486 | 37287 | | | |
| C24 | 5.803 | 0.000 | 490888 | 179936 | STODDARD (C8-C12) | 166553 | 6 |
| C25 | 5.971 | -0.001 | 566016 | 134034 | | | |
| C26 | 6.140 | 0.000 | 697745 | 340924 | | | |
| C28 | 6.468 | 0.000 | 821739 | 147044 | | | |
| C32 | 7.088 | 0.000 | 944363 | 351708 | | | |
| C34 | 7.372 | -0.004 | 843279 | 181487 | | | |
| Filter Peak | 9.042 | 0.001 | 18621 | 16187 | | | |
| C36 | 7.647 | -0.003 | 529358 | 228251 | CREOSOT (C8-C22) | 4766201 | 745 |
| C38 | 7.908 | -0.001 | 167766 | 62594 | | | |
| C40 | 8.157 | 0.001 | 65946 | 19623 | BUNKERC (C10-C38) | 103700490 | 11998 |

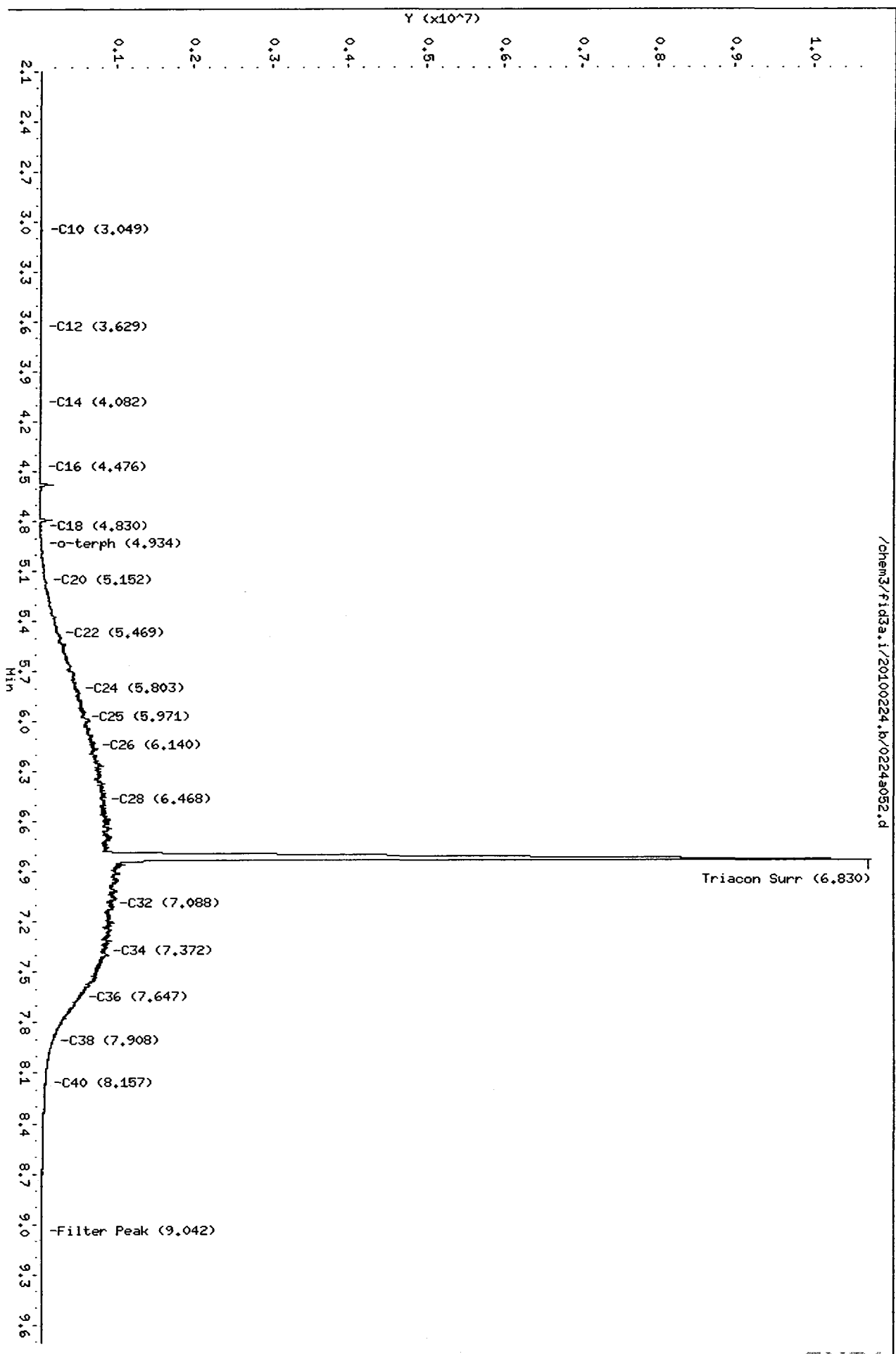
Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|----------|--------|-------|
| o-Terphenyl | 1351 | 0.0 | 0.1 |
| Triacontane | 14790268 | 421.0 | 935.6 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100224.b/0224a052.d
Date: 24-FEB-2010 22:13
Client ID:
Sample Info: HOIL 5000
Column phase: ZBI-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



Mr 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a053.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL ICV
Client ID:
Injection: 24-FEB-2010 22:30
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.456 | 0.008 | 6666 | 8107 | GAS (Tol-C12) | 179180 | 6 |
| C8 | 1.822 | -0.001 | 1771 | 417 | DIESEL (C12-C24) | 996619 | 48 |
| C10 | 3.046 | 0.001 | 2641 | 1811 | M.OIL (C24-C38) | 9882955 | 440 |
| C12 | 3.630 | 0.002 | 1252 | 879 | AK-102 (C10-C25) | 1205690 | 48 |
| C14 | 4.083 | 0.003 | 1104 | 552 | AK-103 (C25-C36) | 8200030 | 918 |
| C16 | 4.477 | 0.001 | 1117 | 788 | OR.DIES (C10-C28) | 3142071 | 149 |
| C18 | 4.830 | 0.000 | 1916 | 1540 | OR.MOIL (C28-C40) | 9111270 | 808 |
| C20 | 5.151 | 0.001 | 6518 | 6080 | JET-A (C10-C18) | 100086 | 6 |
| C22 | 5.470 | 0.000 | 19519 | 7884 | | | |
| C24 | 5.804 | 0.001 | 36858 | 14948 | STODDARD (C8-C12) | 118304 | 4 |
| C25 | 5.970 | -0.002 | 44829 | 17458 | | | |
| C26 | 6.142 | 0.003 | 50574 | 8985 | | | |
| C28 | 6.468 | 0.000 | 67144 | 13255 | | | |
| C32 | 7.087 | -0.001 | 94223 | 29660 | | | |
| C34 | 7.375 | -0.001 | 104733 | 32875 | | | |
| Filter Peak | 9.042 | 0.001 | 14105 | 564 | | | |
| C36 | 7.648 | -0.002 | 108590 | 56857 | CREOSOT (C8-C22) | 512421 | 80 |
| C38 | 7.913 | 0.003 | 98171 | 42391 | | | |
| C40 | 8.157 | 0.001 | 86272 | 32139 | BUNKERC (C10-C38) | 10918518 | 1263 |

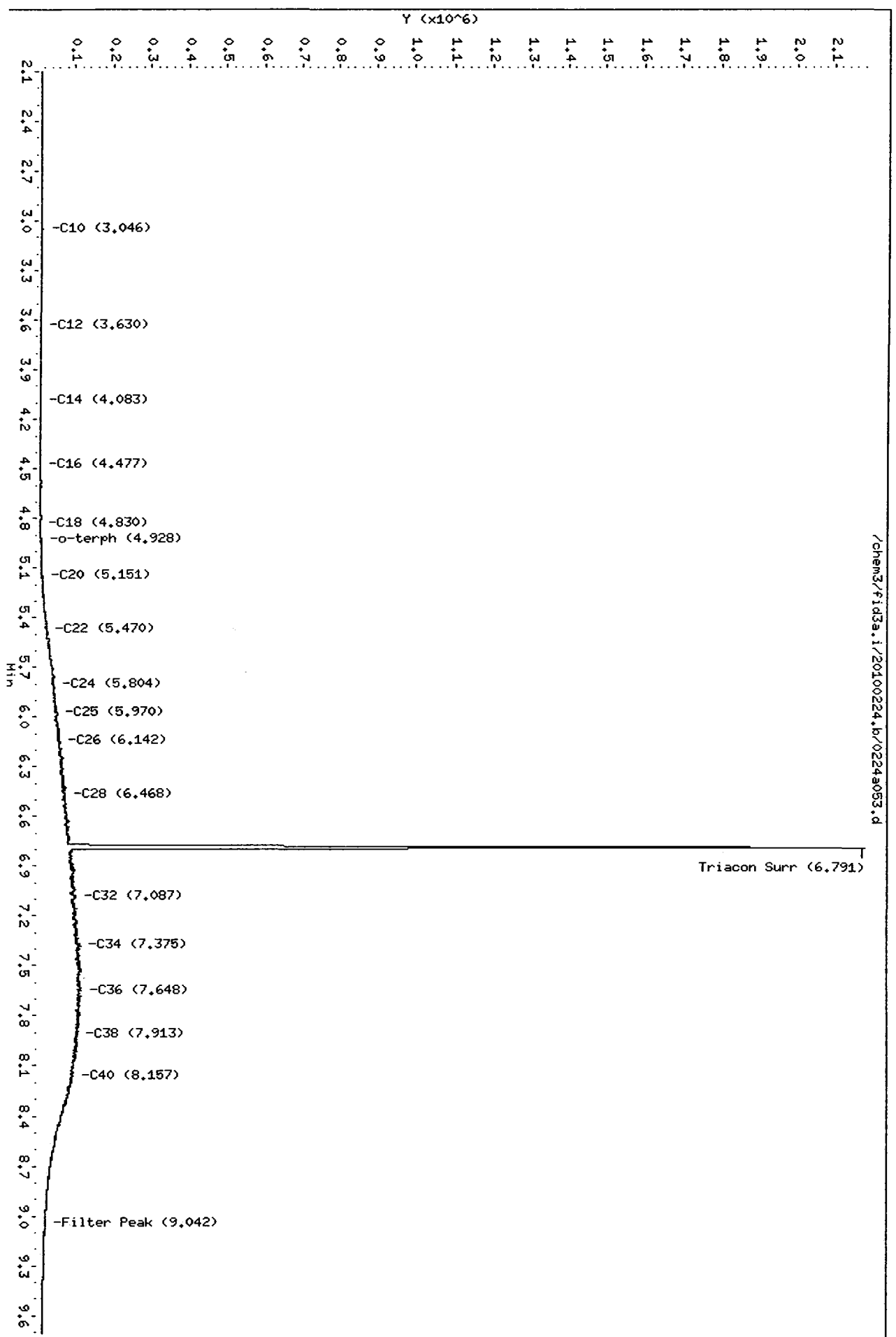
Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3521 | 0.1 | 0.2 |
| Triacontane | 1667224 | 47.5 | 105.5 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 43328.7 | 24-FEB-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 31379.9 | 03-DEC-2009 |
| Diesel | 20723.6 | 02-OCT-2009 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 25175.9 | 02-OCT-2009 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100224.b/0224a053.d
Date: 24-FEB-2010 22:30
Client ID:
Sample Info: MOIL ICV
Column phase: ZB1-HT

Instrument: fid3a.1
Operator: ms
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Ms 3/18/10

Data file: /chem3/fid3a.i/20100316.b/0316a002.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: RT
Client ID:
Injection: 16-MAR-2010 13:34
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|-------|---------|--------|-------------------|------------|------|
| Toluene | 1.459 | 0.000 | 733790 | 685773 | GAS (Tol-C12) | 2146608 | 78 |
| C8 | 1.829 | 0.000 | 286457 | 424396 | DIESEL (C12-C24) | 2669592 | 90 |
| C10 | 3.046 | 0.000 | 907931 | 433381 | M.OIL (C24-C38) | 3596568 | 160 |
| C12 | 3.629 | 0.000 | 872318 | 415797 | AK-102 (C10-C25) | 3586214 | 107 |
| C14 | 4.082 | 0.000 | 796063 | 429639 | AK-103 (C25-C36) | 3026372 | 339 |
| C16 | 4.476 | 0.000 | 944842 | 428673 | OR.DIES (C10-C28) | 5051346 | 240 |
| C18 | 4.829 | 0.000 | 945855 | 430593 | OR.MOIL (C28-C40) | 2796219 | 248 |
| C20 | 5.149 | 0.000 | 963550 | 430900 | JET-A (C10-C18) | 2250871 | 142 |
| C22 | 5.468 | 0.000 | 788280 | 426905 | | | |
| C24 | 5.802 | 0.000 | 734204 | 427144 | STODDARD (C8-C12) | 1424554 | 51 |
| C25 | 5.970 | 0.000 | 1001148 | 589440 | | | |
| C26 | 6.136 | 0.000 | 605217 | 425195 | | | |
| C28 | 6.464 | 0.000 | 591327 | 417131 | | | |
| C32 | 7.085 | 0.000 | 551361 | 416926 | | | |
| C34 | 7.372 | 0.000 | 501178 | 422906 | | | |
| Filter Peak | 7.602 | 0.000 | 9351 | 2592 | | | |
| C36 | 7.645 | 0.000 | 520462 | 447299 | CREOSOT (C8-C22) | 3655337 | 572 |
| C38 | 7.906 | 0.000 | 462121 | 414220 | | | |
| C40 | 8.153 | 0.000 | 467814 | 457182 | BUNKERC (C10-C38) | 7179406 | 831 |

Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1667473 | 43.2 | 95.9 |
| Triacontane | 1414152 | 40.3 | 89.5 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

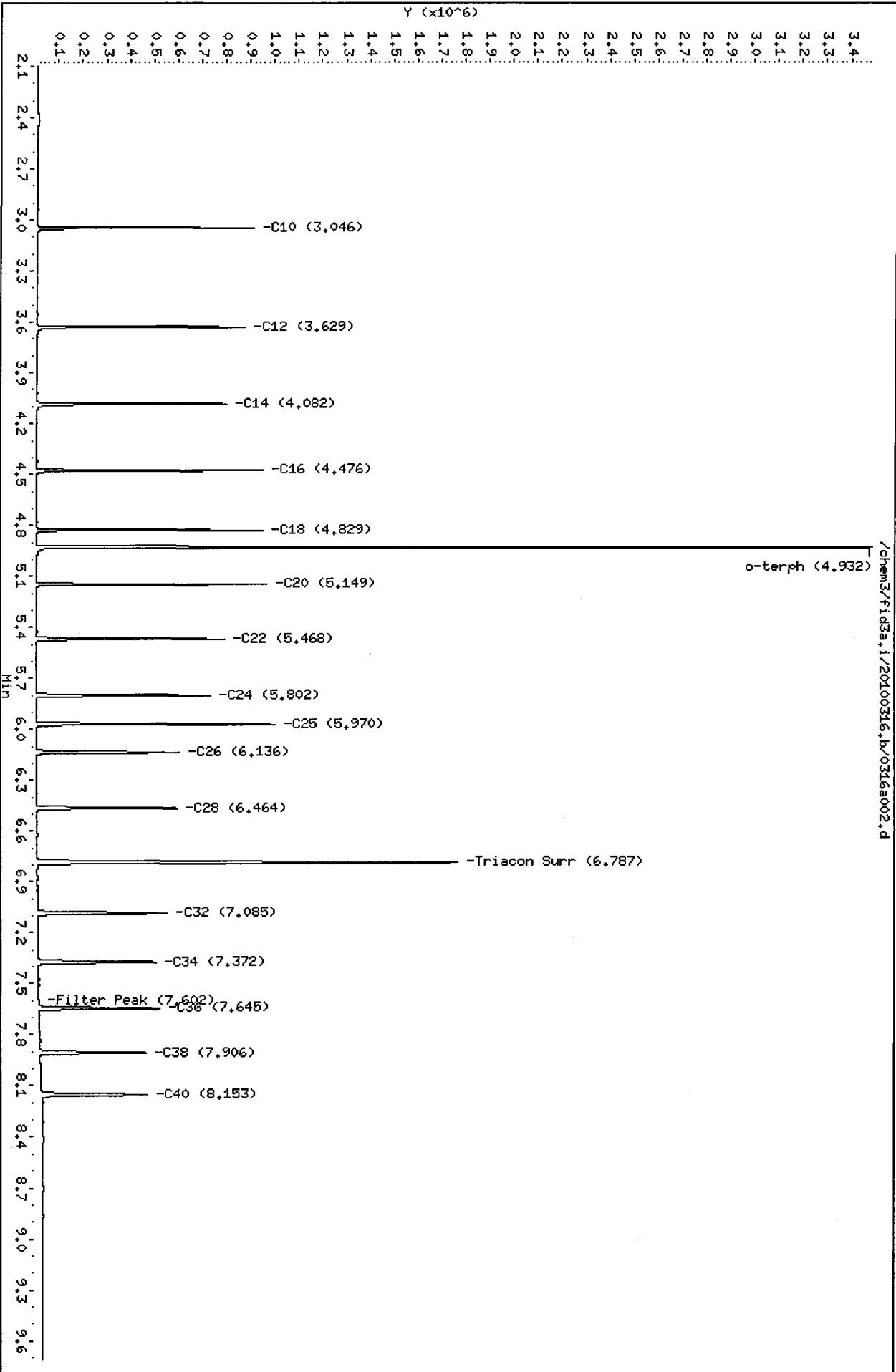
Data File: /chem3/fid3a.i/20100316.b/0316a002.d
Date: 16-MAR-2010 13:34

Client ID:
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a003.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: IB
Client ID:
Injection: 16-MAR-2010 13:51
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.458 | 0.000 | 3228 | 577 | GAS (Tol-C12) | 216342 | 8 |
| C8 | 1.830 | 0.001 | 1219 | 97 | DIESEL (C12-C24) | 111368 | 4 |
| C10 | 3.046 | 0.000 | 3768 | 3581 | M.OIL (C24-C38) | 448249 | 20 |
| C12 | 3.631 | 0.002 | 1350 | 159 | AK-102 (C10-C25) | 205337 | 6 |
| C14 | 4.082 | 0.000 | 663 | 77 | AK-103 (C25-C36) | 298486 | 33 |
| C16 | 4.476 | 0.000 | 465 | 36 | OR.DIES (C10-C28) | 246297 | 12 |
| C18 | 4.827 | -0.002 | 564 | 171 | OR.MOIL (C28-C40) | 599617 | 53 |
| C20 | 5.149 | 0.000 | 947 | 169 | JET-A (C10-C18) | 133923 | 8 |
| C22 | 5.468 | 0.000 | 613 | 121 | | | |
| C24 | 5.801 | 0.000 | 792 | 153 | STODDARD (C8-C12) | 172659 | 6 |
| C25 | 5.972 | 0.002 | 998 | 377 | | | |
| C26 | 6.136 | 0.000 | 1068 | 148 | | | |
| C28 | 6.465 | 0.000 | 2120 | 126 | | | |
| C32 | 7.088 | 0.002 | 6647 | 9815 | | | |
| C34 | 7.372 | 0.000 | 4960 | 882 | | | |
| Filter Peak | 7.601 | 0.000 | 8036 | 801 | | | |
| C36 | 7.644 | -0.002 | 8766 | 2250 | CREOSOT (C8-C22) | 270322 | 42 |
| C38 | 7.906 | 0.000 | 11180 | 3329 | | | |
| C40 | 8.159 | 0.006 | 16476 | 29266 | BUNKERC (C10-C38) | 650665 | 75 |

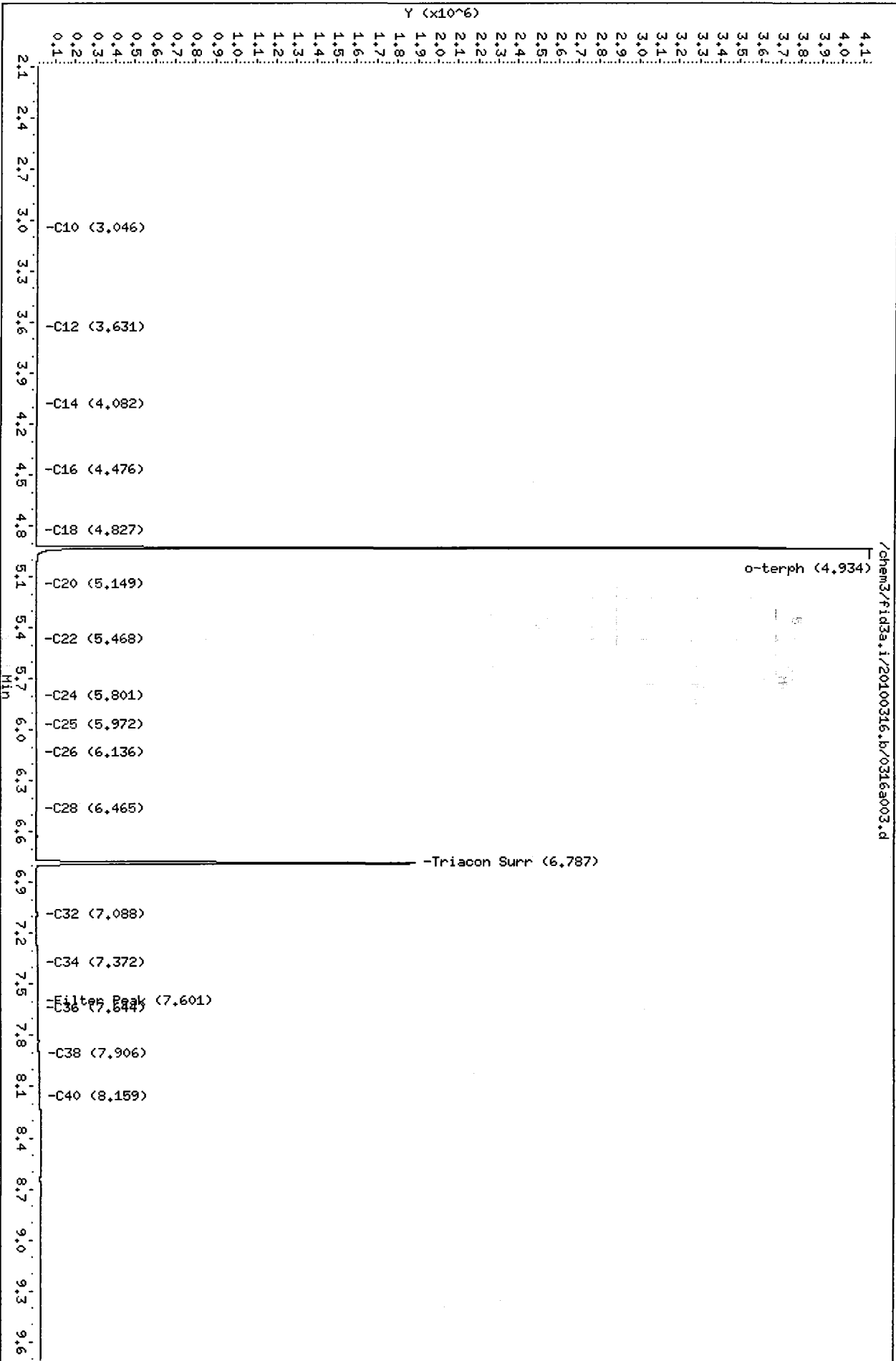
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2128224 | 55.1 | 122.4 |
| Triacontane | 1434809 | 40.8 | 90.8 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a003.d
 Date: 16-MAR-2010 13:51
 Client ID:
 Sample Info: IB
 Column phase: ZB1-HT

Instrument: fid3a.i
 Operator: ms
 Column diameter: 0.25



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 01-MAR-2010 Project: LORA LAKE APTS.
 CCal Date: 16-MAR-2010 SDG No.: QN31
 Analysis Time: 14:08 Lab ID: DIESEL#1
 Instrument: FID3A.I Lab File Name: 0316a004.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|------|
| WADies (C12-C24) | 6891528 | 231.4 | 250 | -7.4 |
| AK102 (C10-C25) | 7722365 | 230.9 | 250 | -7.6 |
| Terphenyl | 1598725 | 41.4 | 45 | -8.1 |

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

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

Analytical Resources Inc.
TPH Quantitation Report

ms 3/18/10

Data file: /chem3/fid3a.i/20100316.b/0316a004.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: DIESEL#1
Client ID:
Injection: 16-MAR-2010 14:08
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.468 | 0.010 | 8651 | 12593 | GAS (Tol-C12) | 1166312 | 43 |
| C8 | 1.837 | 0.008 | 4158 | 8929 | DIESEL (C12-C24) | 6891528 | 231 |
| C10 | 3.047 | 0.001 | 42013 | 21960 | M.OIL (C24-C38) | 485802 | 22 |
| C12 | 3.629 | 0.000 | 93205 | 80387 | AK-102 (C10-C25) | 7722365 | 231 |
| C14 | 4.082 | 0.000 | 175134 | 119544 | AK-103 (C25-C36) | 335102 | 38 |
| C16 | 4.476 | 0.000 | 344901 | 215540 | OR.DIES (C10-C28) | 7822796 | 371 |
| C18 | 4.829 | 0.000 | 314501 | 190740 | OR.MOIL (C28-C40) | 531084 | 47 |
| C20 | 5.149 | 0.000 | 187955 | 116835 | JET-A (C10-C18) | 5684177 | 359 |
| C22 | 5.470 | 0.002 | 70183 | 60140 | | | |
| C24 | 5.802 | 0.000 | 19783 | 19552 | STODDARD (C8-C12) | 1107542 | 40 |
| C25 | 5.972 | 0.003 | 9253 | 11230 | | | |
| C26 | 6.139 | 0.003 | 4441 | 5443 | | | |
| C28 | 6.465 | 0.001 | 2191 | 216 | | | |
| C32 | 7.087 | 0.002 | 4483 | 7380 | | | |
| C34 | 7.372 | 0.000 | 3829 | 686 | | | |
| Filter Peak | 7.603 | 0.001 | 5933 | 829 | | | |
| C36 | 7.640 | -0.006 | 6432 | 1279 | CREOSOT (C8-C22) | 7752737 | 1212 |
| C38 | 7.907 | 0.001 | 8754 | 699 | | | |
| C40 | 8.158 | 0.005 | 14592 | 29221 | BUNKERC (C10-C38) | 8187580 | 947 |

Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1598725 | 41.4 | 91.9 |
| Triacontane | 688 | 0.0 | 0.0 |

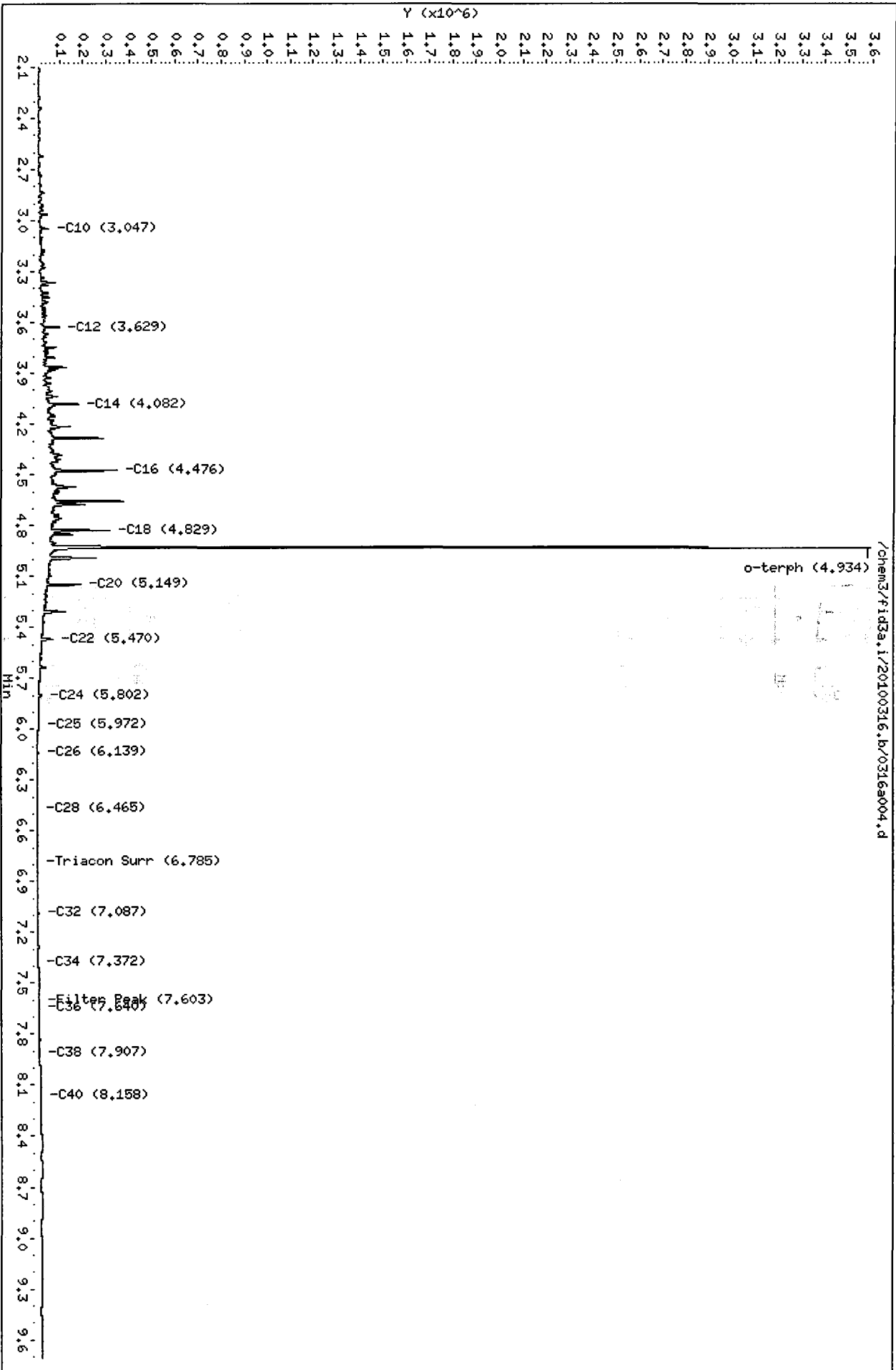
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a004.d
Date: 16-MAR-2010 14:08

Client ID:
Sample Info: DIESEL#1

Column phase: ZBL-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 24-FEB-2010 Project: LORA LAKE APTS.
 CCal Date: 16-MAR-2010 SDG No.: QN31
 Analysis Time: 14:26 Lab ID: MOIL#1
 Instrument: FID3A.I Lab File Name: 0316a005.d

| M.oil Range | Area* | CalcAmnt | NomAmnt | % D |
|------------------|----------|----------|---------|-------|
| WAMoil (C24-C38) | 10161997 | 452.8 | 500 | -9.4 |
| AK103 (C25-C36) | 8606965 | 963.6 | 500 | 92.7 |
| n-Triacontane | 1373639 | 39.1 | 45 | -13.1 |

<-

* 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

Analytical Resources Inc.
TPH Quantitation Report

M 3/18/10

Data file: /chem3/fid3a.i/20100316.b/0316a005.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: MOIL#1
Client ID:
Injection: 16-MAR-2010 14:26
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.459 | 0.001 | 3496 | 417 | GAS (Tol-C12) | 236835 | 9 |
| C8 | 1.829 | -0.001 | 1445 | 258 | DIESEL (C12-C24) | 1256506 | 42 |
| C10 | 3.048 | 0.001 | 4002 | 3525 | M.OIL (C24-C38) | 10161997 | 453 |
| C12 | 3.628 | -0.001 | 1569 | 281 | AK-102 (C10-C25) | 1539953 | 46 |
| C14 | 4.081 | 0.000 | 935 | 166 | AK-103 (C25-C36) | 8606965 | 964 |
| C16 | 4.474 | -0.002 | 816 | 94 | OR.DIES (C10-C28) | 3878762 | 184 |
| C18 | 4.833 | 0.004 | 1892 | 1952 | OR.MOIL (C28-C40) | 8798223 | 780 |
| C20 | 5.148 | -0.001 | 7272 | 3351 | JET-A (C10-C18) | 186813 | 12 |
| C22 | 5.471 | 0.003 | 24048 | 14094 | | | |
| C24 | 5.803 | 0.002 | 43362 | 6043 | STODDARD (C8-C12) | 189365 | 7 |
| C25 | 5.970 | 0.001 | 55030 | 10898 | | | |
| C26 | 6.139 | 0.002 | 63816 | 16204 | | | |
| C28 | 6.462 | -0.002 | 78055 | 30336 | | | |
| C32 | 7.085 | 0.000 | 94414 | 31655 | | | |
| C34 | 7.372 | 0.000 | 95712 | 17085 | | | |
| Filter Peak | 7.602 | 0.000 | 90888 | 18126 | | | |
| C36 | 7.647 | 0.001 | 92248 | 25441 | CREOSOT (C8-C22) | 689946 | 108 |
| C38 | 7.905 | -0.002 | 84750 | 10163 | | | |
| C40 | 8.158 | 0.005 | 77080 | 58876 | BUNKERC (C10-C38) | 11514205 | 1332 |

Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 5003 | 0.1 | 0.3 |
| Triacontane | 1373639 | 39.1 | 86.9 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a005.d
Date: 16-MAR-2010 14:26

Client ID:

Sample Info: HOIL#1

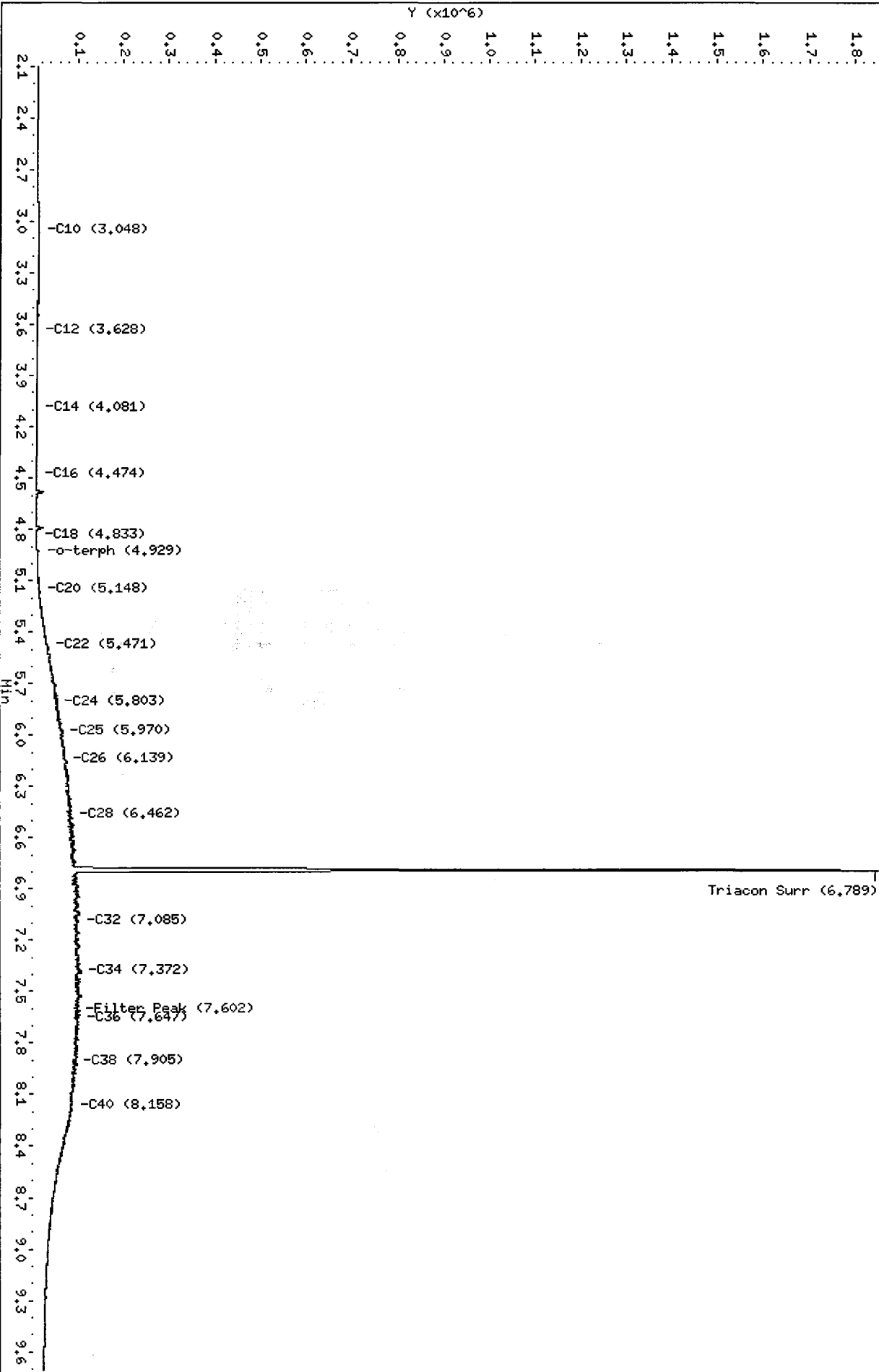
Column phase: ZBI-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25

/chem3/fid3a.i/20100316.b/0316a005.d



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 01-MAR-2010 Project: LORA LAKE APTS.
 CCal Date: 16-MAR-2010 SDG No.: QN31
 Analysis Time: 17:20 Lab ID: DIESEL#2
 Instrument: FID3A.I Lab File Name: 0316a014.d

| Diesel Range | Area* | CalcAmnt | NomAmnt | % D |
|------------------|---------|----------|---------|------|
| WADies (C12-C24) | 7001898 | 235.1 | 250 | -6.0 |
| AK102 (C10-C25) | 7875043 | 235.5 | 250 | -5.8 |
| Terphenyl | 1612247 | 41.7 | 45 | -7.3 |

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

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

ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a014.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: DIESEL#2
Client ID:
Injection: 16-MAR-2010 17:20
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.454 | -0.004 | 3822 | 457 | GAS (Tol-C12) | 1271837 | 46 |
| C8 | 1.819 | -0.011 | 2310 | 916 | DIESEL (C12-C24) | 7001898 | 235 |
| C10 | 3.048 | 0.002 | 41854 | 22868 | M.OIL (C24-C38) | 378675 | 17 |
| C12 | 3.630 | 0.001 | 97705 | 83450 | AK-102 (C10-C25) | 7875043 | 235 |
| C14 | 4.082 | 0.001 | 181207 | 117660 | AK-103 (C25-C36) | 277560 | 31 |
| C16 | 4.477 | 0.001 | 342144 | 212744 | OR.DIES (C10-C28) | 7969327 | 378 |
| C18 | 4.829 | 0.000 | 307695 | 196972 | OR.MOIL (C28-C40) | 359217 | 32 |
| C20 | 5.150 | 0.001 | 178287 | 124586 | JET-A (C10-C18) | 5785363 | 365 |
| C22 | 5.469 | 0.001 | 71575 | 59138 | | | |
| C24 | 5.803 | 0.001 | 19768 | 21675 | STODDARD (C8-C12) | 1191288 | 43 |
| C25 | 5.971 | 0.001 | 9077 | 6298 | | | |
| C26 | 6.140 | 0.003 | 4195 | 6580 | | | |
| C28 | 6.466 | 0.002 | 1991 | 625 | | | |
| C32 | 7.086 | 0.001 | 3021 | 300 | | | |
| C34 | 7.372 | 0.000 | 3091 | 430 | | | |
| Filter Peak | 7.602 | 0.001 | 3834 | 229 | | | |
| C36 | 7.644 | -0.002 | 4097 | 652 | CREOSOT (C8-C22) | 7945336 | 1242 |
| C38 | 7.906 | 0.000 | 5482 | 1094 | | | |
| C40 | 8.151 | -0.002 | 7743 | 2443 | BUNKERC (C10-C38) | 8230552 | 952 |

Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1612247 | 41.7 | 92.7 |
| Triacontane | 683 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a014.d
Date: 16-MAR-2010 17:20

Client ID:

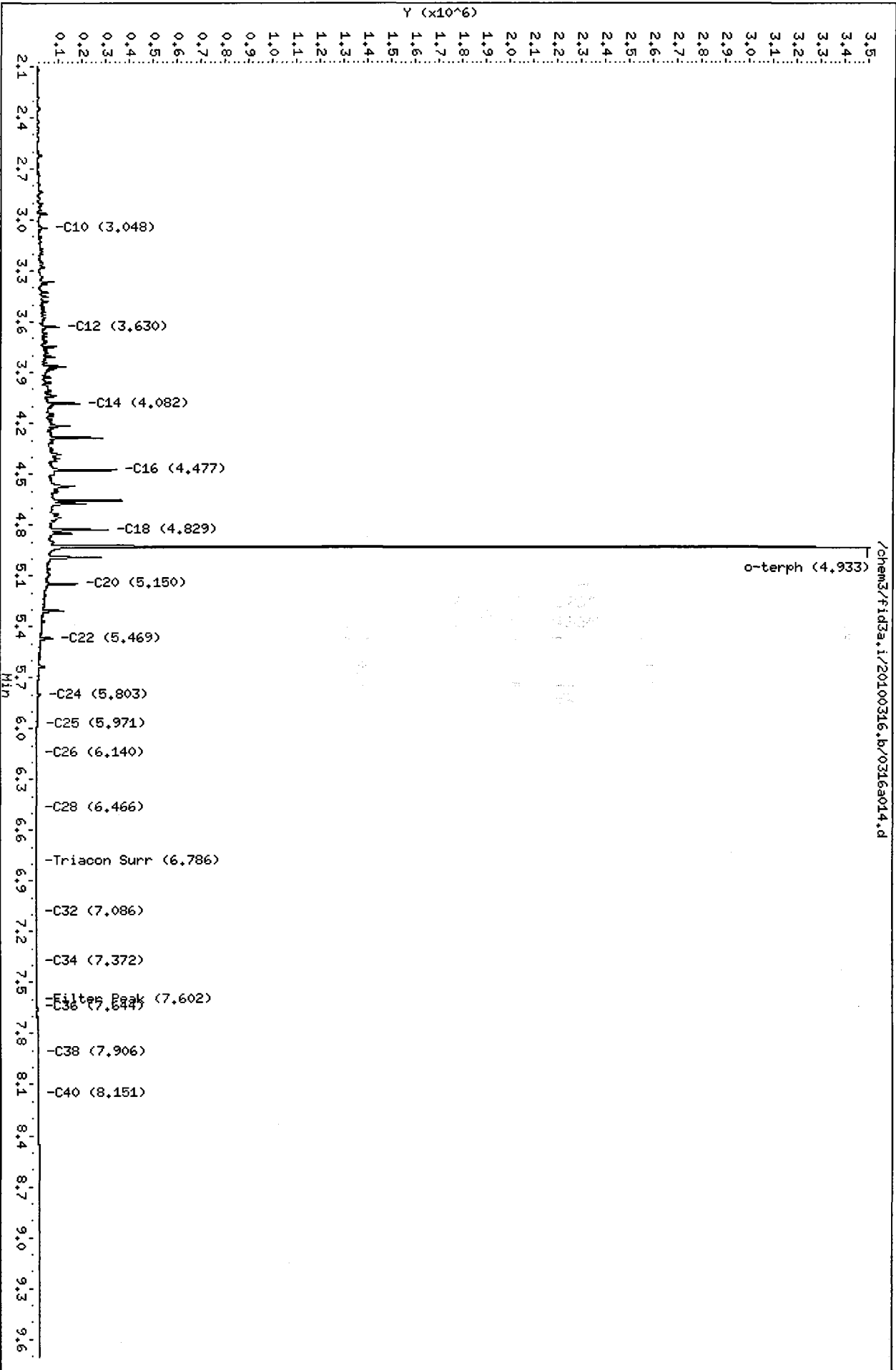
Sample Info: DIESEL#2

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 24-FEB-2010 Project: LORA LAKE APTS.
 CCal Date: 16-MAR-2010 SDG No.: QN31
 Analysis Time: 17:37 Lab ID: MOIL#2
 Instrument: FID3A.I Lab File Name: 0316a015.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|------------------|----------|---------|--------|-------|
| WAMoil (C24-C38) | 10251676 | 456.8 | 500 | -8.6 |
| AK103 (C25-C36) | 8691555 | 973.0 | 500 | 94.6 |
| n-Triacontane | 1386662 | 39.5 | 45 | -12.3 |

<-

* 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

Analytical Resources Inc.
TPH Quantitation Report

MS371 D11c

Data file: /chem3/fid3a.i/20100316.b/0316a015.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/18/2010
Macro: FID:3A031610

ARI ID: MOIL#2
Client ID:
Injection: 16-MAR-2010 17:37
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|-------|-------------------|------------|------|
| Toluene | 1.459 | 0.000 | 4458 | 444 | GAS (Tol-C12) | 308320 | 11 |
| C8 | 1.827 | -0.002 | 2039 | 405 | DIESEL (C12-C24) | 1268365 | 43 |
| C10 | 3.047 | 0.001 | 4463 | 4006 | M.OIL (C24-C38) | 10251676 | 457 |
| C12 | 3.629 | 0.000 | 2008 | 199 | AK-102 (C10-C25) | 1585955 | 47 |
| C14 | 4.081 | -0.001 | 1135 | 266 | AK-103 (C25-C36) | 8691555 | 973 |
| C16 | 4.475 | -0.001 | 892 | 139 | OR.DIES (C10-C28) | 3950906 | 187 |
| C18 | 4.833 | 0.004 | 1915 | 1813 | OR.MOIL (C28-C40) | 8777893 | 779 |
| C20 | 5.150 | 0.001 | 7664 | 2016 | JET-A (C10-C18) | 213986 | 14 |
| C22 | 5.464 | -0.004 | 23824 | 10520 | | | |
| C24 | 5.803 | 0.001 | 45577 | 12533 | STODDARD (C8-C12) | 239819 | 9 |
| C25 | 5.971 | 0.001 | 56400 | 10105 | | | |
| C26 | 6.135 | -0.001 | 64315 | 19897 | | | |
| C28 | 6.463 | -0.001 | 77478 | 22926 | | | |
| C32 | 7.087 | 0.001 | 94323 | 29855 | | | |
| C34 | 7.371 | -0.001 | 106056 | 61187 | | | |
| Filter Peak | 7.599 | -0.003 | 92730 | 40080 | | | |
| C36 | 7.639 | -0.006 | 96516 | 59051 | CREOSOT (C8-C22) | 743756 | 116 |
| C38 | 7.907 | 0.001 | 84777 | 30046 | | | |
| C40 | 8.150 | -0.003 | 74355 | 26235 | BUNKERC (C10-C38) | 11634978 | 1346 |

Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 5913 | 0.2 | 0.3 |
| Triacotane | 1386662 | 39.5 | 87.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a015.d
Date: 16-MAR-2010 17:37

Client ID:

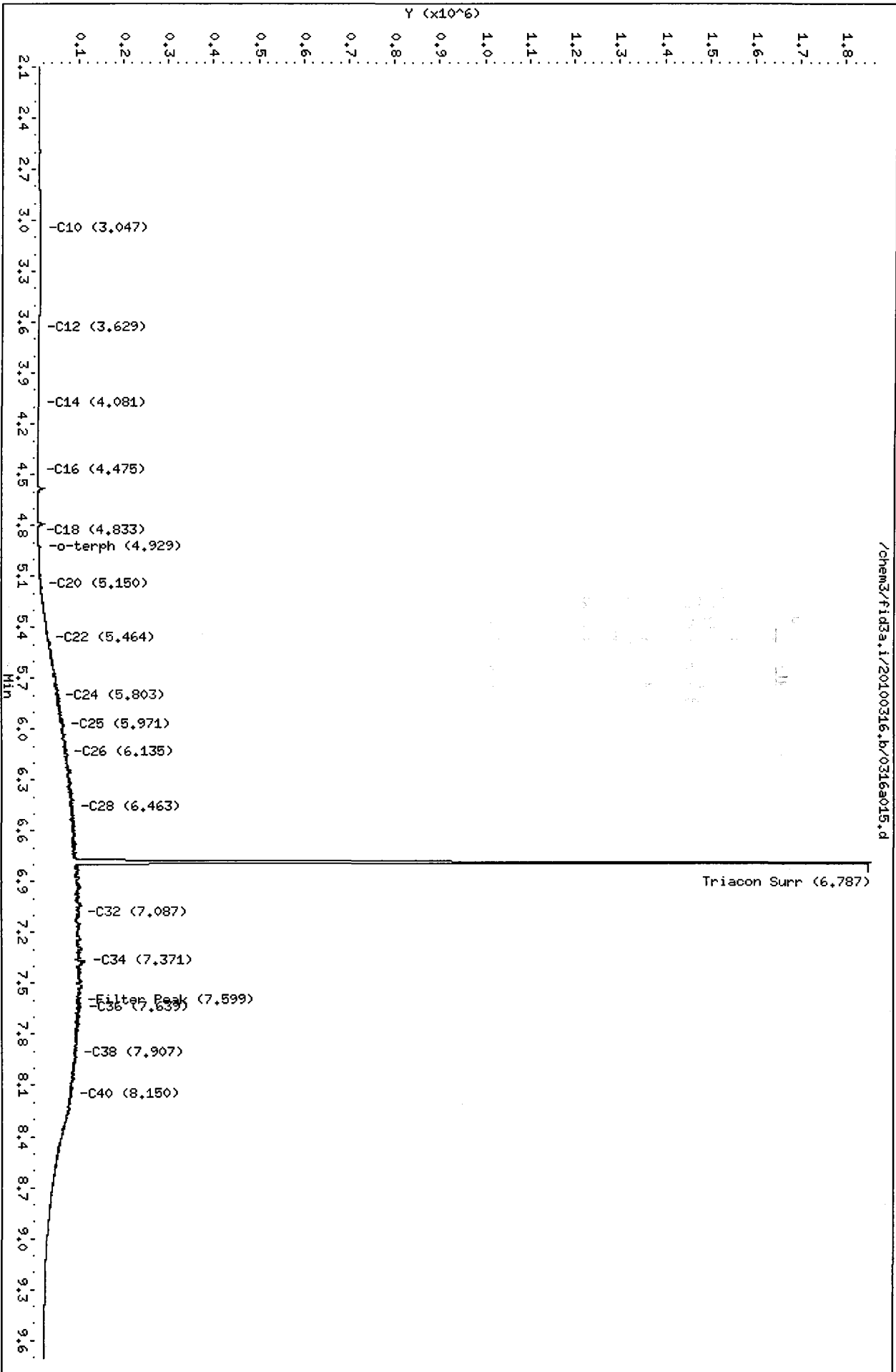
Sample Info: HDIL#2

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



/chem3/fid3a.i/20100316.b/0316a015.d

TPHD Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.

ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a013.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31MBW1
Client ID: QN31MBW1
Injection: 16-MAR-2010 17:02
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|--------|--------|-------------------|------------|------|
| Toluene | 1.451 | -0.008 | 3713 | 296 | GAS (Tol-C12) | 256294 | 9 |
| C8 | 1.830 | 0.000 | 1816 | 503 | DIESEL (C12-C24) | 303940 | 10 |
| C10 | 3.047 | 0.001 | 2536 | 2120 | M.OIL (C24-C38) | 562551 | 25 |
| C12 | 3.628 | -0.001 | 1423 | 250 | AK-102 (C10-C25) | 392393 | 12 |
| C14 | 4.086 | 0.004 | 1700 | 1568 | AK-103 (C25-C36) | 466150 | 52 |
| C16 | 4.479 | 0.003 | 2691 | 1939 | OR.DIES (C10-C28) | 457249 | 22 |
| C18 | 4.834 | 0.005 | 2315 | 628 | OR.MOIL (C28-C40) | 598147 | 53 |
| C20 | 5.148 | -0.001 | 4246 | 1010 | JET-A (C10-C18) | 278242 | 18 |
| C22 | 5.467 | -0.001 | 2312 | 407 | | | |
| C24 | 5.802 | 0.001 | 1752 | 377 | STODDARD (C8-C12) | 190181 | 7 |
| C25 | 5.967 | -0.003 | 3106 | 1797 | | | |
| C26 | 6.137 | 0.000 | 1684 | 234 | | | |
| C28 | 6.465 | 0.001 | 2563 | 3164 | | | |
| C32 | 7.086 | 0.000 | 7024 | 9581 | | | |
| C34 | 7.376 | 0.004 | 15024 | 17598 | | | |
| Filter Peak | 7.608 | 0.007 | 217509 | 184917 | | | |
| C36 | 7.644 | -0.001 | 6221 | 497 | CREOSOT (C8-C22) | 463724 | 73 |
| C38 | 7.907 | 0.000 | 6066 | 1327 | | | |
| C40 | 8.156 | 0.003 | 11318 | 20262 | BUNKERC (C10-C38) | 947198 | 110 |

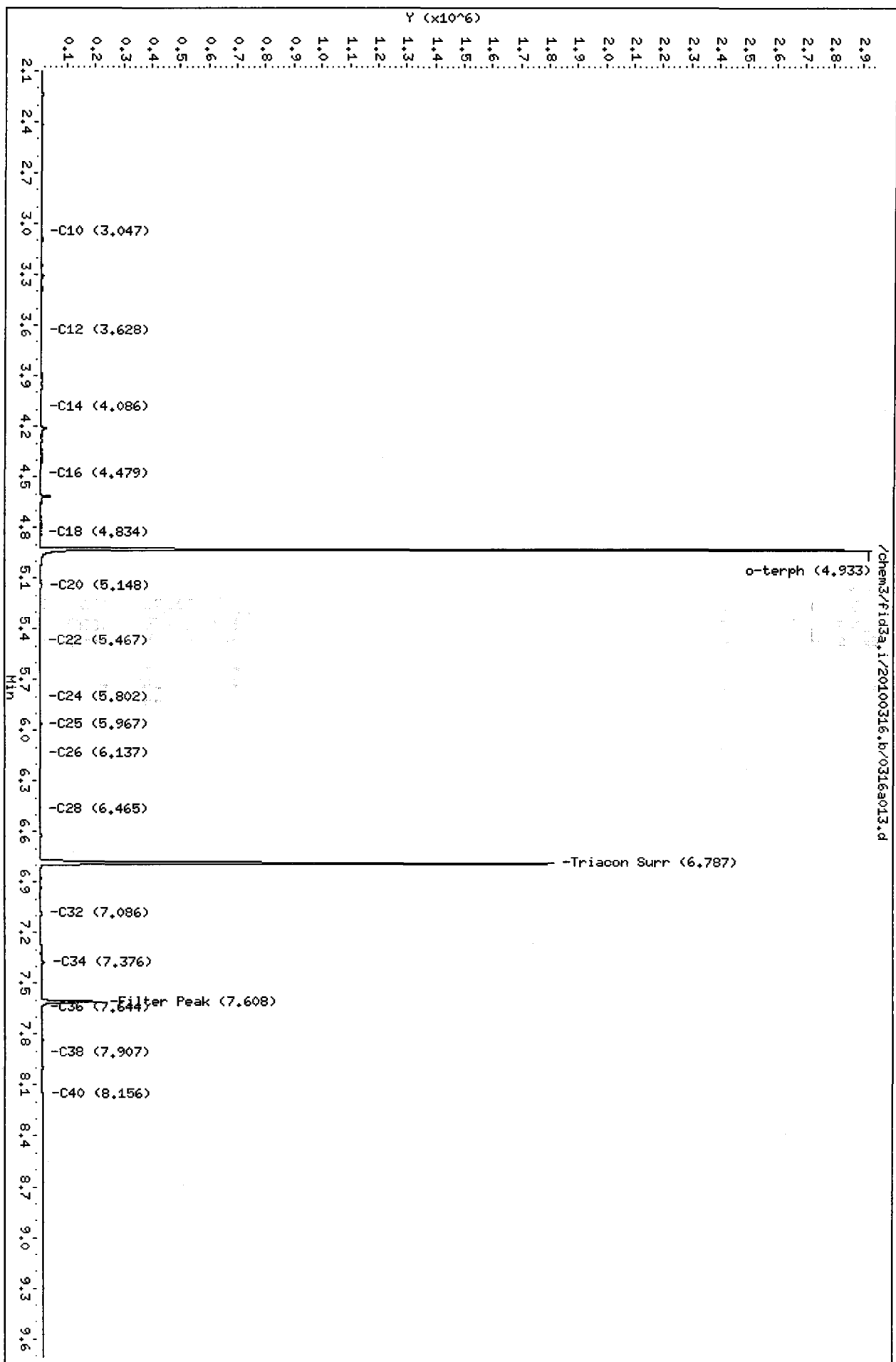
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1537225 | 39.8 | 88.4 |
| Triacontane | 1328849 | 37.8 | 84.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a.i/20100316.b/0316a013.d
 Date: 16-MAR-2010 17:02
 Client ID: QN31MBW1
 Sample Info: QN31MBW1
 Column phase: ZB1-HT

Instrument: fid3a.i
 Operator: ms
 Column diameter: 0.25



/chem3/fid3a.i/20100316.b/0316a013.d

ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a007.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31AMS
Client ID: CB31A031110GRAB MS
Injection: 16-MAR-2010 15:18
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|---------|---------|-------------------|------------|------|
| Toluene | 1.467 | 0.009 | 24792 | 30444 | GAS (Tol-C12) | 4260437 | 156 |
| C8 | 1.836 | 0.007 | 8602 | 9891 | DIESEL (C12-C24) | 35471087 | 1191 |
| C10 | 3.048 | 0.002 | 151749 | 81060 | M.OIL (C24-C38) | 15020225 | 669 |
| C12 | 3.629 | 0.000 | 460572 | 351796 | AK-102 (C10-C25) | 39268178 | 1174 |
| C14 | 4.084 | 0.002 | 856251 | 531127 | AK-103 (C25-C36) | 13276924 | 1486 |
| C16 | 4.479 | 0.003 | 1658686 | 999618 | OR.DIES (C10-C28) | 44599377 | 2115 |
| C18 | 4.832 | 0.003 | 1525498 | 1019959 | OR.MOIL (C28-C40) | 10062361 | 893 |
| C20 | 5.151 | 0.002 | 968284 | 648307 | JET-A (C10-C18) | 25576819 | 1614 |
| C22 | 5.471 | 0.003 | 440593 | 400540 | | | |
| C24 | 5.802 | 0.001 | 223675 | 216994 | STODDARD (C8-C12) | 4150926 | 150 |
| C25 | 5.971 | 0.001 | 212875 | 214046 | | | |
| C26 | 6.137 | 0.001 | 186614 | 165037 | | | |
| C28 | 6.466 | 0.002 | 178753 | 230466 | | | |
| C32 | 7.084 | -0.001 | 154542 | 225393 | | | |
| C34 | 7.375 | 0.003 | 141121 | 215882 | | | |
| Filter Peak | 7.612 | 0.010 | 379243 | 407562 | | | |
| C36 | 7.644 | -0.001 | 108757 | 170402 | CREOSOT (C8-C22) | 36489216 | 5705 |
| C38 | 7.904 | -0.002 | 87004 | 87027 | | | |
| C40 | 8.153 | 0.000 | 72247 | 58518 | BUNKERC (C10-C38) | 53720023 | 6215 |

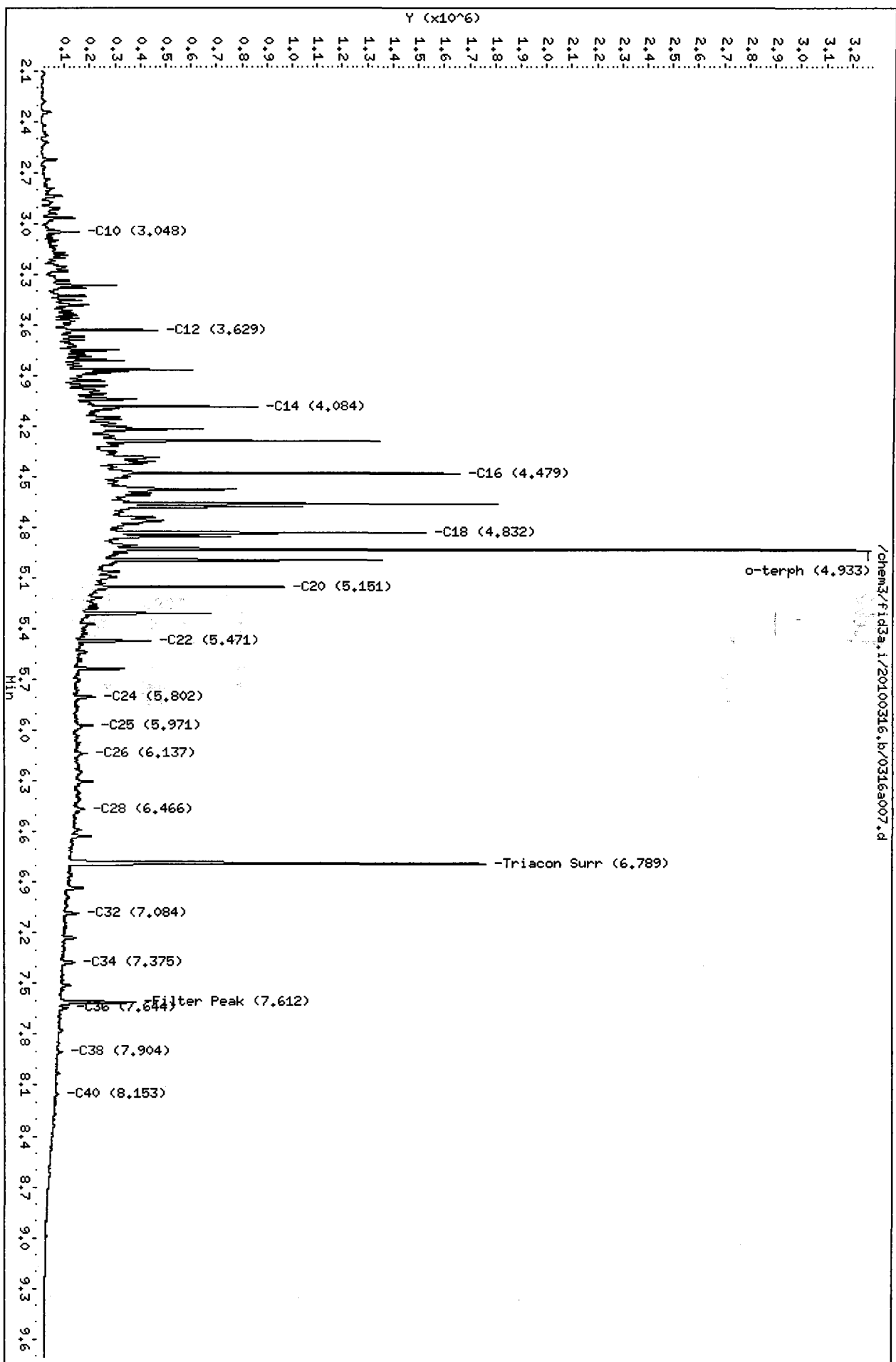
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1445457 | 37.4 | 83.1 |
| Triacontane | 1274029 | 36.3 | 80.6 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chem3/fid3a,i/20100316,b/0316a007.d
Date: 16-MAR-2010 15:18
Client ID: CB31A0311106RAB MS
Sample Info: QN31A9MS
Column phase: ZB1-HT

Instrument: fid3a,i
Operator: ms
Column diameter: 0.25



ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a008.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31AMSD
Client ID: CB31A031110GRAB MSD
Injection: 16-MAR-2010 15:35
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|---------|---------|-------------------|------------|------|
| Toluene | 1.465 | 0.006 | 23457 | 30851 | GAS (Tol-C12) | 4226897 | 155 |
| C8 | 1.833 | 0.004 | 8246 | 18304 | DIESEL (C12-C24) | 35566443 | 1194 |
| C10 | 3.047 | 0.001 | 144450 | 81196 | M.OIL (C24-C38) | 15609801 | 696 |
| C12 | 3.629 | 0.000 | 452760 | 318575 | AK-102 (C10-C25) | 39342080 | 1176 |
| C14 | 4.083 | 0.001 | 848424 | 527683 | AK-103 (C25-C36) | 13796038 | 1544 |
| C16 | 4.478 | 0.002 | 1583460 | 1000131 | OR.DIES (C10-C28) | 44902833 | 2129 |
| C18 | 4.832 | 0.003 | 1492868 | 1006287 | OR.MOIL (C28-C40) | 10460814 | 928 |
| C20 | 5.152 | 0.003 | 911060 | 654838 | JET-A (C10-C18) | 25429623 | 1605 |
| C22 | 5.470 | 0.002 | 484521 | 400047 | | | |
| C24 | 5.801 | -0.001 | 233655 | 222910 | STODDARD (C8-C12) | 4113687 | 149 |
| C25 | 5.969 | -0.001 | 212358 | 137985 | | | |
| C26 | 6.135 | -0.001 | 187716 | 179329 | | | |
| C28 | 6.465 | 0.001 | 196686 | 227263 | | | |
| C32 | 7.082 | -0.003 | 167783 | 207239 | | | |
| C34 | 7.370 | -0.001 | 152523 | 240754 | | | |
| Filter Peak | 7.610 | 0.008 | 393762 | 429193 | | | |
| C36 | 7.643 | -0.003 | 108865 | 108609 | CREOSOT (C8-C22) | 36457807 | 5700 |
| C38 | 7.904 | -0.002 | 89529 | 43616 | | | |
| C40 | 8.150 | -0.003 | 75228 | 73290 | BUNKERC (C10-C38) | 54370001 | 6291 |

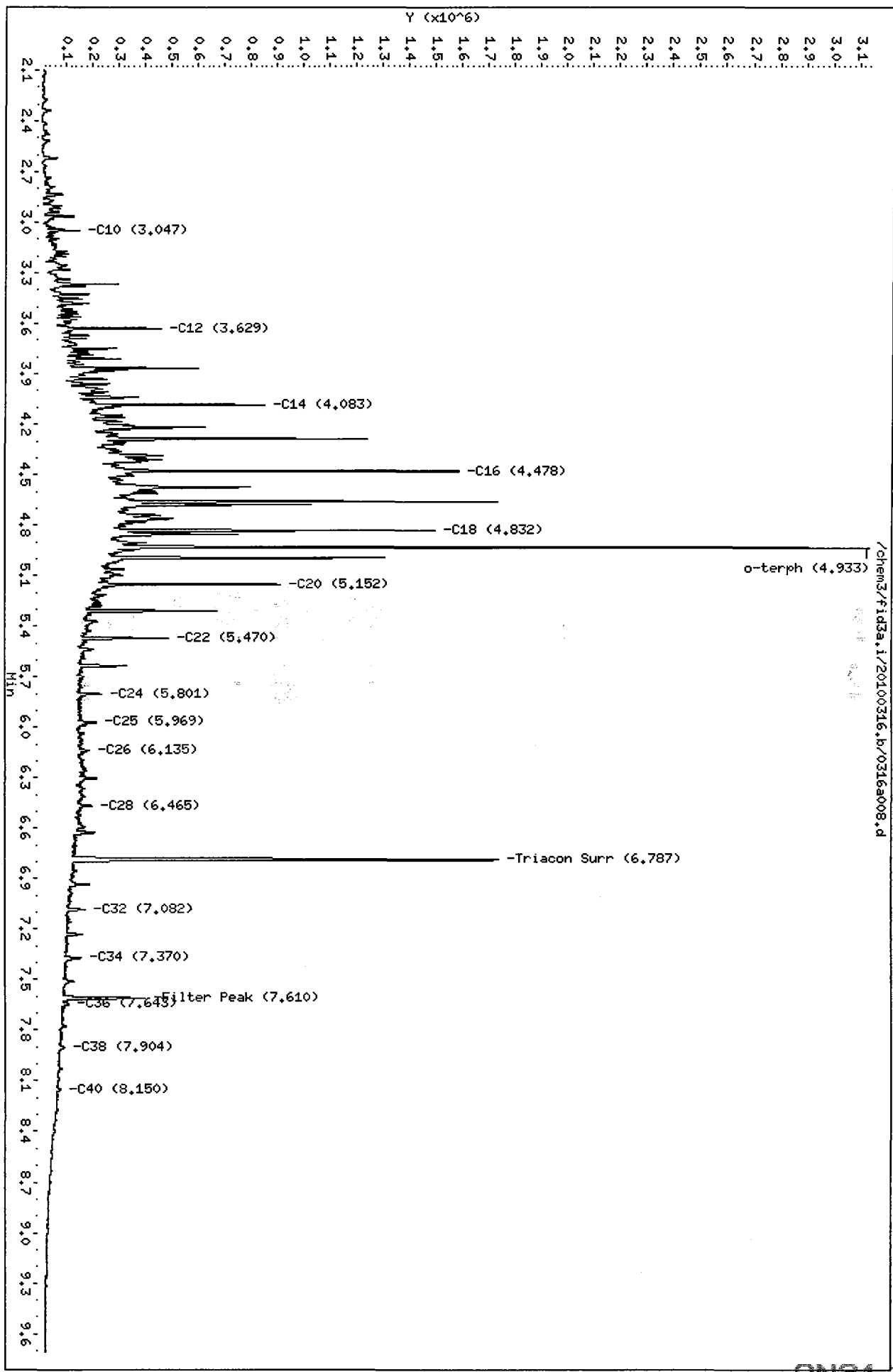
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1372611 | 35.5 | 78.9 |
| Triacontane | 1228078 | 35.0 | 77.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chems3/fid3a.i/20100316.b/0316a008.d
Date: 16-MAR-2010 15:35
Client ID: CB31A031110GRAB MSD
Sample Info: QN31A0MSD
Column Phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



ms 3/18/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100316.b/0316a012.d
Method: /chem3/fid3a.i/20100316.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/17/2010
Macro: FID:3A031610

ARI ID: QN31LCSW1
Client ID: QN31LCSW1
Injection: 16-MAR-2010 16:45
Dilution Factor: 1

FID:3A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|-------------|-------|--------|---------|---------|-------------------|------------|------|
| Toluene | 1.468 | 0.010 | 29789 | 35252 | GAS (Tol-C12) | 5052953 | 185 |
| C8 | 1.838 | 0.009 | 9861 | 21587 | DIESEL (C12-C24) | 36772581 | 1235 |
| C10 | 3.047 | 0.001 | 176936 | 97361 | M.OIL (C24-C38) | 1211011 | 54 |
| C12 | 3.629 | 0.000 | 535986 | 378501 | AK-102 (C10-C25) | 40709275 | 1217 |
| C14 | 4.083 | 0.001 | 1038167 | 602977 | AK-103 (C25-C36) | 1000260 | 112 |
| C16 | 4.479 | 0.003 | 1913172 | 1198209 | OR.DIES (C10-C28) | 41091508 | 1948 |
| C18 | 4.832 | 0.003 | 1676847 | 1174950 | OR.MOIL (C28-C40) | 849124 | 75 |
| C20 | 5.151 | 0.002 | 1025685 | 711382 | JET-A (C10-C18) | 29533287 | 1864 |
| C22 | 5.470 | 0.002 | 421503 | 335922 | | | |
| C24 | 5.801 | -0.001 | 116683 | 112835 | STODDARD (C8-C12) | 4944243 | 179 |
| C25 | 5.967 | -0.002 | 56574 | 56116 | | | |
| C26 | 6.134 | -0.002 | 21712 | 23235 | | | |
| C28 | 6.463 | -0.001 | 7344 | 9213 | | | |
| C32 | 7.083 | -0.002 | 7214 | 10112 | | | |
| C34 | 7.374 | 0.003 | 34840 | 33498 | | | |
| Filter Peak | 7.611 | 0.009 | 357560 | 317886 | | | |
| C36 | 7.646 | 0.001 | 7554 | 902 | CREOSOT (C8-C22) | 40362601 | 6311 |
| C38 | 7.906 | 0.000 | 7666 | 2132 | | | |
| C40 | 8.156 | 0.003 | 10762 | 8788 | BUNKERC (C10-C38) | 41811819 | 4838 |

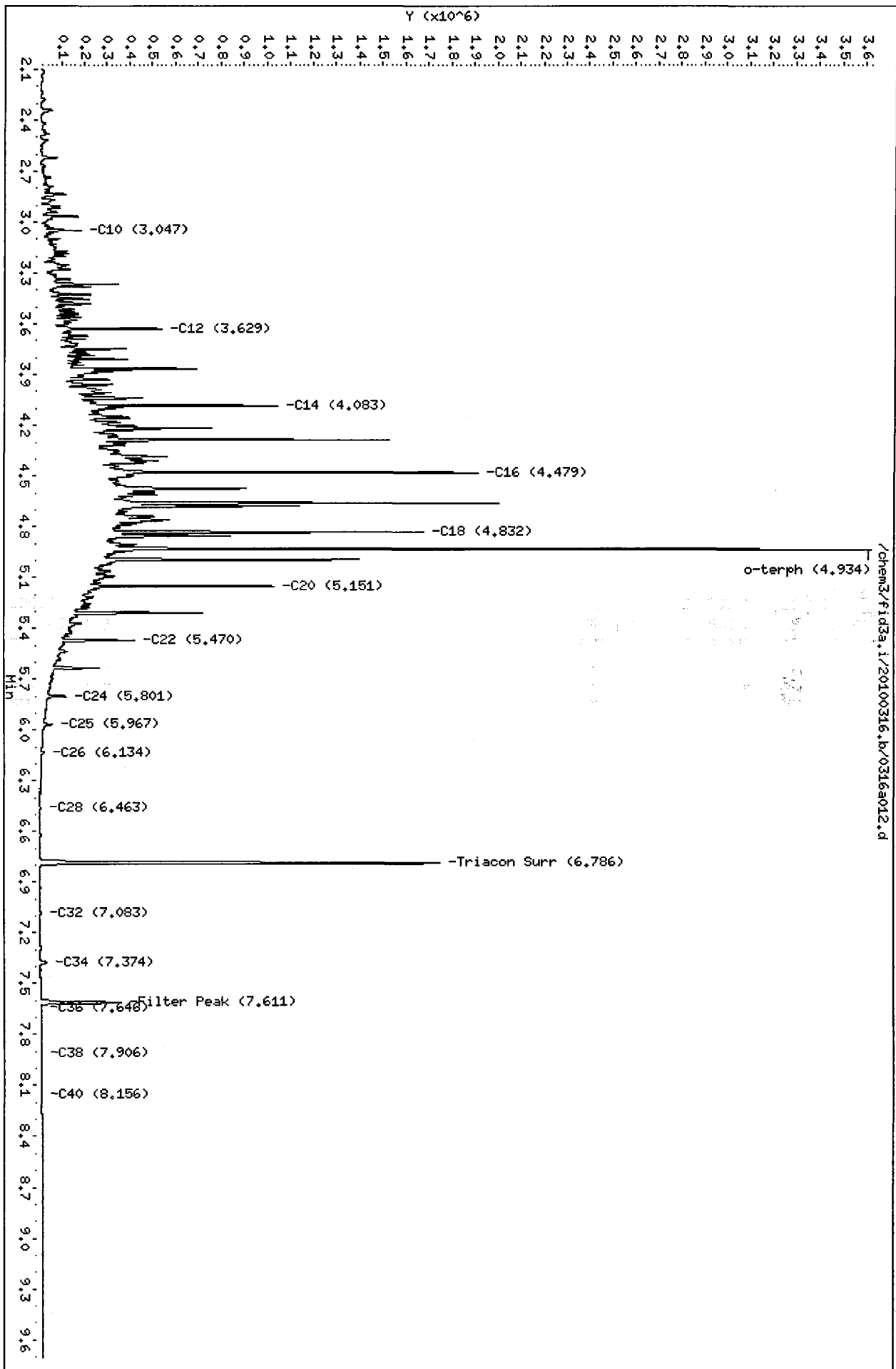
Range Times: NW Diesel(3.679 - 5.852) NW Gas(1.409 - 3.679) NW M.Oil(5.852 - 7.956)
AK102(2.996 - 5.920) AK103(5.920 - 7.695) Jet A(2.996 - 4.879)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|------|
| o-Terphenyl | 1569302 | 40.6 | 90.3 |
| Triacotane | 1333100 | 37.9 | 84.3 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 38638.9 | 01-MAR-2010 |
| Triacon Surr | 35130.8 | 24-FEB-2010 |
| Gas | 27357.0 | 16-MAR-2010 |
| Diesel | 29779.8 | 01-MAR-2010 |
| Motor Oil | 22441.3 | 24-FEB-2010 |
| AK102 | 33446.1 | 01-MAR-2010 |
| AK103 | 8932.5 | 01-SEPT-2009 |
| JetA | 15848.0 | 27-JAN-2009 |
| OR Diesel | 21090.0 | |
| OR M.Oil | 11274.0 | |
| Bunker C | 8643.2 | 15-SEP-2009 |
| Creosote | 6396.0 | 17-JAN-2009 |

Data File: /chems3/fid3a.i/20100316.b/0316a012.d
Date: 16-MAR-2010 16:45
Client ID: QN31LCSM4
Sample Info: QN31LCSM4
Column phase: ZB1-HT

Instrument: fid3a.i
Operator: ms
Column diameter: 0.25



TPHD Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN31

prepared
by

Analytical Resources, Inc.



Preparation Test **TPHD**/HCID # 1

ARI Job No(s) QN31

In-House (0.25-0.50ppm)

Batch set up by: JH

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | DryVap Or KD | Turbo Vap | Acid/Silica Clean (1:1) | Final Effective Volume | Volume to Lab | Comments |
|---|-------------------------|----------------------|------------------|---------------------|------------|-------------------------|------------------------|---------------|----------|
| | <u>QN31</u> MBW | Date <u>03/15/10</u> | 500mL | | <u>2 3</u> | <u>Y</u> N 1mL | 1mL | 1mL | |
| | ↓ SBW | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| | — SBW Dup. — | | | | | | | | |
| <u>12</u> | <u>QN31</u> A | <u>Checked</u> | <u>500 mL</u> | ↓ | ↓ | ↓ | ↓ | ↓ | |
| <u>10</u> | <u>Am 5</u> | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| <u>11</u> | <u>Am 5cl</u> | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| <u>5</u> | B | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| <u>4</u> | C | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| <u>4</u> | D | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| Analyst/Date: <u>AR 03/15/10</u> → <u>316-10^{T3}</u> <u>9</u> <u>3/16/10</u> → | | | | | | | | | |

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|--------|-----------------|-----------|-----------|
| Surrogate | <u>01</u> | 100µL | <u>7/22/14</u> | <u>AR</u> | <u>WW</u> |
| Spike | <u>11</u> | 100µL | <u>9/27/14</u> | <u>AR</u> | <u>WW</u> |

Extraction Time: 14:20

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

4. Extract 2X with 30mL DCM. 5. DryVap or **KD** at 80°. 6. TurboVap if KD. **Acid/Silica Clean-ups?** Y / N.

8. Vial in DCM.
3014F

Archive Y / N

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 3/1/10

Analysis: TPH10

Analyst: MS

GC Program: TPMT

Column No: 151712

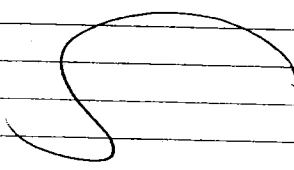
Column Type: ZB1HT

Instrument Tune (.U or .CT.): _____

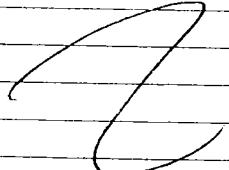
EM Voltage: _____

Calibration File: _____

Curve Date: 2/24/10, 3/1/10

IS/SS


Ical/Ccal
1700-1
1686-3
1687-3
1694-1

LCS/ICV


| Time | Filename | LabID | Clientid | DF |
|------|-----------------|------------------|-------------|----|
| 1 | 1546 0301a003.d | RT | | 1 |
| 2 | 1503 0301a004.d | RT | | 1 |
| 3 | 1520 0301a005.d | RT | RT | 1 |
| 4 | 1537 0301a006.d | IB | IB | 1 |
| 5 | 1655 0301a007.d | DIESEL 50 | DIESEL 50 | 1 |
| 6 | 1712 0301a008.d | DIESEL 100 | DIESEL 100 | 1 |
| 7 | 1730 0301a009.d | DIESEL 250 | DIESEL 250 | 1 |
| 8 | 1747 0301a010.d | DIESEL 500 | DIESEL 500 | 1 |
| 9 | 1804 0301a011.d | DIESEL 1000 | DIESEL 1000 | 1 |
| 10 | 1822 0301a012.d | DIESEL 2500 | | 1 |
| 11 | 1839 0301a013.d | DIESEL ICV | | 1 |
| 12 | 1856 0301a014.d | IB | | 1 |
| 13 | 1914 0301a015.d | IB | | 1 |
| 14 | 1931 0301a016.d | JET-A 250PPM | | 1 |
| 15 | 1948 0301a017.d | DIESEL#2 250PPM | | 1 |
| 16 | 2005 0301a018.d | STODDARD 250PPM | | 1 |
| 17 | 2022 0301a019.d | CREOSOTE 250PPM | | 1 |
| 18 | 2039 0301a020.d | BUNKER C 500PPM | | 1 |
| 19 | 2057 0301a021.d | AK103 500PPM | | 1 |
| 20 | 2114 0301a022.d | HYDRAULIC 500PPM | | 1 |
| 21 | 2131 0301a023.d | 30WT MOIL 500PPM | | 1 |
| 22 | 2148 0301a024.d | GAS 1000PPM | | 1 |

| Time | Filename | LabID | Clientid | DF |
|------|-----------------|-------------------|----------|----|
| 23 | 2205 0301a025.d | DIESEL#1 1000PPM | | 1 |
| 24 | 2222 0301a026.d | JP-5 1000PPM | | 1 |
| 25 | 2239 0301a027.d | JP-8 1000PPM | | 1 |
| 26 | 2256 0301a028.d | MINERAL OIL 1000 | | 1 |
| 27 | 2314 0301a029.d | TRANSFMR OIL 1000 | | 1 |
| 28 | 2331 0301a030.d | VACUUM PUMP 1000 | | 1 |
| 29 | 2348 0301a031.d | CRUDE OIL 1000 | | 1 |
| 30 | 0005 0301a032.d | 40WT MOIL 1000 | | 1 |
| 31 | 0022 0301a033.d | BLAZO 4000 1000 | | 1 |
| 32 | 0039 0301a034.d | COOL LUBE 1000 | | 1 |
| 33 | 0056 0301a035.d | TECH COOL 1000 | | 1 |
| 34 | 0113 0301a036.d | IB | | 1 |
| 35 | 0130 0301a037.d | IB | | 1 |
| 36 | 0147 0301a038.d | IB | | 1 |
| 37 | 0204 0301a039.d | DIESEL#1 | | 1 |
| 38 | 0222 0301a040.d | MOIL#1 | | 1 |
| 39 | 0239 0301a041.d | IB | | 1 |
| 40 | 0256 0301a042.d | IB | | 1 |
| 41 | 0313 0301a043.d | IB | | 1 |

Maintenance / Comments

Curved diesel and van library.

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.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 3/3/10 Analysis: DMO Analyst: m

GC Program: DMHT Column No: 1077R Column Type: ZBHT

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 2/24/07/1/10 m

| IS/SS | Ical/Ccal | LCS/ICV |
|----------|--|---------------|
| <u>S</u> | <u>1200-1</u> <u>1684-7</u> <u>1687-3</u> <u>1694-1</u> | <u>3/1/10</u> |

| Time | Filename | LabID | ClientID | DF | |
|------|----------|------------|------------|------------|---|
| 1 | 1343 | 0303a001.d | RINSE | 1 | |
| 2 | 1400 | 0303a002.d | RT | RT | 1 |
| 3 | 1417 | 0303a003.d | IB | IB | 1 |
| 4 | 1434 | 0303a004.d | DIESEL#1 | DIESEL#1 | 1 |
| 5 | 1452 | 0303a005.d | MOIL#1 | MOIL#1 | 1 |
| 6 | 1509 | 0303a006.d | DIESEL ICV | | 1 |
| 7 | 1526 | 0303a007.d | QL09LCSDS1 | | 1 |
| 8 | 1544 | 0303a008.d | QM11A | | 1 |
| 9 | 1601 | 0303a009.d | QM23A | | 1 |
| 10 | 1619 | 0303a010.d | QM11LCSW1 | | 1 |
| 11 | 1636 | 0303a011.d | QM11MBW1 | | 1 |
| 12 | 1654 | 0303a012.d | QL09LCSDS1 | QL09LCSDS1 | 1 |
| 13 | 1711 | 0303a013.d | DIESEL#2 | DIESEL#2 | 1 |
| 14 | 1729 | 0303a014.d | MOIL#2 | MOIL#2 | 1 |

[Large handwritten scribble]

DMO
3/3/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, AK102, o-Terph Client ID: AKI
CURVE

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, AK 102, o-Terphenyl

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 3/1/10 Analysis Start: 3/1/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO NA
 ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO NA
 CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO
 Internal Standard Meets Criteria? YES / NO NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Diesel ICV ran on 3/3/10. mo

Additional Details on Reverse: Yes / No

Analyst Signature: mo Date: 3/3/10

Reviewer's Signature: [Signature] Date: 3/3/10

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 2/24/10

Analysis: TPMTD

Analyst: MS

GC Program: TPMHT

Column No: 151712

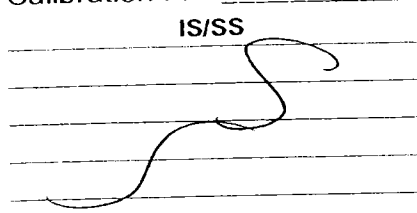
Column Type: ZBHT

Instrument Tune (.U or .CT.): _____

EM Voltage: _____

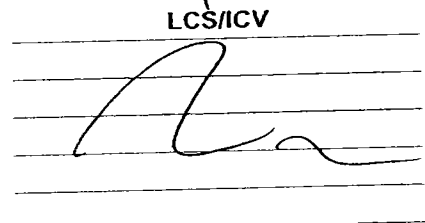
Calibration File: _____

Curve Date: 2/24/10



Ical/Ccal

1700-1
1686-3
1687-3
1694-1



| Time | Filename | LabID | ClientID | DF | Time | Filename | LabID | ClientID | DF | Time | Filename | LabID | ClientID | DF |
|------|----------|------------|----------|----|------|----------|------------|-------------|----|------|----------|------------|-----------|----|
| 1 | 0608 | 0224a001.d | RT | 1 | 23 | 1226 | 0224a023.d | RT | 1 | 46 | 2031 | 0224a046.d | IB | 1 |
| 2 | 0625 | 0224a002.d | RT | 1 | 24 | 1244 | 0224a024.d | RT | 1 | 47 | 2048 | 0224a047.d | MOIL 100 | 1 |
| 3 | 0642 | 0224a003.d | RT | 1 | 25 | 1301 | 0224a025.d | RT | 1 | 48 | 2105 | 0224a048.d | MOIL 250 | 1 |
| 4 | 0659 | 0224a004.d | RT | 1 | 26 | 1318 | 0224a026.d | RT | 1 | 49 | 2122 | 0224a049.d | MOIL 500 | 1 |
| 5 | 0716 | 0224a005.d | RT | 1 | 27 | 1336 | 0224a027.d | RT | 1 | 50 | 2139 | 0224a050.d | MOIL 1000 | 1 |
| 6 | 0733 | 0224a006.d | IB | 1 | 28 | 1353 | 0224a028.d | IB | 1 | 51 | 2156 | 0224a051.d | MOIL 2500 | 1 |
| 7 | 0750 | 0224a007.d | IB | 1 | 29 | 1411 | 0224a029.d | IB | 1 | 52 | 2213 | 0224a052.d | MOIL 5000 | 1 |
| 8 | 0807 | 0224a008.d | IB | 1 | 30 | 1428 | 0224a030.d | IB | 1 | 53 | 2230 | 0224a053.d | MOIL ICV | 1 |
| 9 | 0825 | 0224a009.d | IB | 1 | 31 | 1445 | 0224a031.d | IB | 1 | 54 | 2247 | 0224a054.d | IB | 1 |
| 10 | 0842 | 0224a010.d | RT | 1 | 32 | 1503 | 0224a032.d | IB | 1 | 55 | 2304 | 0224a055.d | IB | 1 |
| 11 | 0859 | 0224a011.d | RT | 1 | 33 | 1520 | 0224a033.d | IB | 1 | | | | | |
| 12 | 0916 | 0224a012.d | RT | 1 | 34 | 1538 | 0224a034.d | IB | 1 | | | | | |
| 13 | 0933 | 0224a013.d | RT | 1 | 35 | 1555 | 0224a035.d | IB | 1 | | | | | |
| 14 | 0950 | 0224a014.d | RT | 1 | 36 | 1740 | 0224a036.d | RINSE | 1 | | | | | |
| 15 | 1008 | 0224a015.d | RT | 1 | 37 | 1756 | 0224a037.d | RT | 1 | | | | | |
| 16 | 1025 | 0224a016.d | RT | 1 | 38 | 1814 | 0224a038.d | IB | 1 | | | | | |
| 17 | 1042 | 0224a017.d | RT | 1 | 39 | 1831 | 0224a039.d | DIESEL 50 | 1 | | | | | |
| 18 | 1059 | 0224a018.d | RT | 1 | 40 | 1848 | 0224a040.d | DIESEL 100 | 1 | | | | | |
| 19 | 1117 | 0224a019.d | RT | 1 | 41 | 1905 | 0224a041.d | DIESEL 250 | 1 | | | | | |
| 20 | 1134 | 0224a020.d | RT | 1 | 42 | 1922 | 0224a042.d | DIESEL 500 | 1 | | | | | |
| 21 | 1151 | 0224a021.d | RT | 1 | 43 | 1939 | 0224a043.d | DIESEL 1000 | 1 | | | | | |
| 22 | 1209 | 0224a022.d | RT | 1 | 44 | 1957 | 0224a044.d | DIESEL 2500 | 1 | | | | | |
| | | | | | 45 | 2014 | 0224a045.d | DIESEL ICV | 1 | | | | | |

MS

Maintenance / Comments Second half of the same column (# 151712) was installed. Moil was curved. Diesel curve misinjected.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: Motor Oil, n-Triacontane Client ID: ARI

ARI SOP: ^{Curve} 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Motor Oil, n-Triacontane

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 2/24/10 Analysis Start: 2/24/10

| | | | |
|-----------------------------------|----------------------|--------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / <u>NA</u> | Method Blank In Control? | YES / NO <u>NA</u> |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | YES / NO |
| CCal Meets RF & %RSD Criteria | <u>YES</u> / NO | Surrogate Recovery In Control? | <u>YES</u> / NO |
| Internal Standard Meets Criteria? | YES / NO / <u>NA</u> | Special Analysis Criteria Met? | YES / NO / <u>NA</u> |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes (No)

Analyst Signature: M.2 Date: 3/3/10

Reviewer's Signature: [Signature] Date: 3/3/10

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 3/16/10

Analysis: TPHD

Analyst: MSJ

GC Program: TPHKT

Column No: 151712

Column Type: ZB1MT

Instrument Tune (.U or .CT.): —

EM Voltage: —

Calibration File: —

Curve Date: 2/22/10, 3/1/10

| IS/SS | Ical/Ccal | LCS/ICV |
|----------|---|----------|
| <u>S</u> | <u>A00-1</u> <u>1086-3</u> <u>1089-3</u> <u>1094-1</u> | <u>Z</u> |

| Time | Filename | LabID | ClientID | DF |
|------|----------|------------|-----------------------|----|
| 1 | 1317 | 0316a001.d | RINSE | 1 |
| 2 | 1334 | 0316a002.d | RT | 1 |
| 3 | 1351 | 0316a003.d | IB | 1 |
| 4 | 1408 | 0316a004.d | DIESEL#1 | 1 |
| 5 | 1426 | 0316a005.d | MOIL#1 | 1 |
| 6 | 1500 | 0316a006.d | QN31A CB31A031110G | 1 |
| 7 | 1518 | 0316a007.d | QN31AMS CB31A031110G | 1 |
| 8 | 1535 | 0316a008.d | QN31AMSD CB31A031110G | 1 |
| 9 | 1552 | 0316a009.d | QN31B CB1031110GRA | 1 |
| 10 | 1610 | 0316a010.d | QN31C CB4857031110 | 1 |
| 11 | 1627 | 0316a011.d | QN31D CB101031110G | 1 |
| 12 | 1645 | 0316a012.d | QN31LCSW1 QN31LCSW1 | 1 |
| 13 | 1702 | 0316a013.d | QN31MBW1 QN31MBW1 | 1 |
| 14 | 1720 | 0316a014.d | DIESEL#2 | 1 |
| 15 | 1737 | 0316a015.d | MOIL#2 | 1 |
| 16 | 1754 | 0316a016.d | G/D HCID W | 1 |
| 17 | 1812 | 0316a017.d | M HCID W | 1 |
| 18 | 1829 | 0316a018.d | QN55L ER-031110-1 | 1 |
| 19 | 1846 | 0316a019.d | QN55LCSW1 QN55LCSW1 | 1 |
| 20 | 1904 | 0316a020.d | QN55LCSW1 QN55LCSW1 | 1 |
| 21 | 1921 | 0316a021.d | QN55MBW1 QN55MBW1 | 1 |
| 22 | 1938 | 0316a022.d | QN54MBW1 QN54MBW1 | 1 |

| Time | Filename | LabID | ClientID | DF |
|------|----------|------------|-----------------------|----|
| 23 | 1955 | 0316a023.d | QN54A NS-19 OP-17 | 1 |
| 24 | 2012 | 0316a024.d | QN54B NS-12 OP-3 | 1 |
| 25 | 2030 | 0316a025.d | QN54C NS-17 OP-10 | 1 |
| 26 | 2047 | 0316a026.d | DIESEL#3 | 1 |
| 27 | 2104 | 0316a027.d | MOIL#3 | 1 |
| 28 | 2121 | 0316a028.d | Q006A 1 | 1 |
| 29 | 2138 | 0316a029.d | Q006B 2 | 1 |
| 30 | 2155 | 0316a030.d | Q006C 3 | 1 |
| 31 | 2212 | 0316a031.d | Q006D 4 | 1 |
| 32 | 2229 | 0316a032.d | Q006A 1 | 5 |
| 33 | 2246 | 0316a033.d | Q006B 2 | 5 |
| 34 | 2303 | 0316a034.d | Q006C 3 | 5 |
| 35 | 2320 | 0316a035.d | Q006D 4 | 5 |
| 36 | 2337 | 0316a036.d | Q006LCSS1 Q006LCSS1 | 1 |
| 37 | 2354 | 0316a037.d | Q006LCSWS1 Q006LCSWS1 | 1 |
| 38 | 0011 | 0316a038.d | Q006MBS1 Q006MBS1 | 1 |
| 39 | 0028 | 0316a039.d | DIESEL#4 | 1 |
| 40 | 0045 | 0316a040.d | MOIL#4 | 1 |

[Large handwritten scribble]

MSJ
3/18/10

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 perio

GC Analyst Notes / Corrective Action Log

ARI Project ID: QN31 Client ID: FLOYD-SNIOW

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, Moil, Steph

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 2/24/10, 3/1/10 Analysis Start: 3/18/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO
ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO
CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO
Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 3/18/10

Reviewer's Signature: [Signature] Date: 3/19/10



Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 5, 2010

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

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QN21

Dear Ms. Massingale:

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

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

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

Sincerely,

ANALYTICAL RESOURCES, INC.

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

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

Enclosures

cc: eFile QN21

SD/sdrd

Chain of Custody
Documentation

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



ARI Job No: QN21

PC: Sue D.
VTSR: 03/10/10

Inquiry Number: NONE
 Analysis Requested: 03/11/10
 Contact: Massingale, Jessi
 Client: Floyd-Snyder
 Logged by: AV
 Sample Set Used: Yes-481
 Validatable Package: No
 Deliverables:

Project #:
 Project: Lora Lakes Apartments
 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 | DMET DOC FLT FLT | ADJUSTED TO | LOT NUMBER | AMOUNT ADDED | DATE/BY |
|------------------|------------------|-----------|------------|-----------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|----------|-----------------|---------------------|----------------|---------------|-----------------|---------|
| 10-5974 QN21A | CB31A031010COMP | | | | | | TOT DIS | | | | | | | | | | | | |
| 10-5975 QN21B | CB4857031010COMP | | | | | | TOT | | | | | | | | | | | | |
| 10-5976 QN21C | CB1031010COMP | | | | | | TDT | | | | | | | | | | | | |
| 10-5977 QN21D | CB101031010COMP | | | | | | TDT | | | | | | | | | | | | |
| 10-5978 QN21E | CB31A031010COMP | | | | | | DIS Fail | | | | | | | | N | | | | |
| 10-5979 QN21F | CB4857031010COMP | | | | | | DIS | | | | | | | | N | | | | |
| 10-5980 QN21G | CB1031010COMP | | | | | | DIS | | | | | | | | N | | | | |
| 10-5981 QN21H | CB101031010COMP | | | | | | DIS | | | | | | | | N | | | | |

QN21 : 00004

Checked By AV Date 3/10/10



Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: Loralakes Apartments

COC No(s): _____ NA

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

Assigned ARI Job No: QN21

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)..... 4.1 4.6

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

Cooler Accepted by: AV Date: 3/10/10 Time: 1523
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

Was Sample Split by ARI : NA YES Date/Time: 3/10/10 1700 Equipment: Teflonchurn Split by: AV/JW

Samples Logged by: AV Date: 3/10/10 Time: 1800

**** 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" |

Case Narrative

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



Case Narrative

Client: Floyd Snider

Project: Lora Lake Apartments, POS-LLA

Matrix: Water

ARI Job No.: QN21

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples on March 10, 2010 under ARI job QN21. The cooler temperatures measured by IR thermometer following ARI SOP were 4.1 and 4.6°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Samples were split for each laboratory using a Teflon churn splitter. The churn splitter was cleaned between each sample using the QAPP protocol. Limited sample volumes were available, insufficient for matrix QC for organic parameters.

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

SIM Semivolatiles by SW8270

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

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

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit, with Naphthalene hits between the MDL and the RL. Results were "J"-flagged and associated sample results have been "B"-flagged. The LCS percent recoveries were within control limits.

The matrix spike/matrix spike duplicate had recoveries and RPD within limits.

Pentachlorophenol by SW8041

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

Initial calibrations and continuing calibrations were within limits.

The surrogate percent recoveries were within control limits.



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

The matrix spike/matrix spike duplicate had recoveries and RPD within limits.

Total and Dissolved Arsenic by EPA 200.8

The samples were digested 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 matrix spike percent recoveries were within limits with the exception of a high recovery of arsenic at 126% (limit 125%). The outlier was not observed immediately. A post-spike was performed at a later date with 105% recovery. Duplicate RPDs were within control limits.

General Chemistry (TSS)

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

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

The replicate RPD was within the control limit.



March 23, 2010

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6030**. This corresponds to your **Lora Lakes Apartments** project under ARI project number **QN21**. Four aqueous samples were received on 3/12/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6030**.

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

If you have any questions regarding project **6030**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley B. Silverbush".

Bradley B. Silverbush
Director of Operations



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

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

Organic Data

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



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

Geotechnical Data

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

SURR SOLUTIONS

3/6/2010

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

LCS SOLUTIONS

3/6/2010

| LABL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|------|---------|--------------|-------------|---------|----------|
| 1 | 1686-1 | PCB 1660 | 20 | ACETONE | 09/01/10 |
| 2# | 1472-3 | BCOC PEST | 10 | ACETONE | NA |
| 3 | 1620-4 | PEST | 02/04/20 | ACETONE | 06/26/10 |
| 4 | 1667-1 | LOW PEST | 0.2/0.4/2 | ACETONE | 06/26/10 |
| 5 | 1677-1 | EPH | 1500 | MECL2 | 11/12/10 |
| 6 | 1702-2 | PCP | 12.5/125 | ACETONE | 02/18/11 |
| 7 | 1705-1 | ABN | 100 | ACETONE | 07/01/10 |
| 8 | 1681-4 | TBT | 2.5 | MECL2 | 12/01/10 |
| 9 | 1682-2 | PORE TBT | .125/.25 | MECL2 | 12/01/10 |
| 10 | 1698-2 | ABN ACID | 100/200 | MECL2 | 07/14/10 |
| 11 | 1642-2 | TPHD | 15000 | ACETONE | 09/07/10 |
| 12 | 1698-1 | ABN BASE | 200 | MEOH | 07/24/10 |
| 13 | 1613-1 | LOW PCB | 2 | ACETONE | 06/08/10 |
| 14* | 1547-1 | LOW ABN ACID | 10/20 | MEOH | 04/10/10 |
| 15* | 1591-3 | SIM PNA | 15/75 | MEOH | 08/28/10 |
| 16 | 1602-3 | DIOXANE | 100 | MEOH | 03/20/10 |
| 17 | 1644-1 | 1248 PCB | 10 | ACETONE | 09/10/10 |
| 18* | 1591-4 | LOW SIM PNA | 1.5 | ACETONE | 08/28/10 |
| 19 | 1685-3 | AK103 | 7500 | ACETONE | 09/03/10 |
| 20 | 1682-4 | PNA | 100 | ACETONE | 12/04/10 |
| 21 | 1593-3 | SKY/BHT | 100 | MEOH | 03/31/10 |
| 22 | 1702-4 | HERB | 12.5/12500 | MEOH | 04/17/10 |
| 23* | 1505-1 | LW ABN BASE | 20 | MEOH | 03/20/10 |
| 24 | 1696-1 | LOW ABN | 10 | ACETONE | 01/13/11 |
| 25# | 1481-1 | DIPHENYL | 100 | MEOH | NA |
| 26 | 1702-5 | OP-PEST | 25 | MEOH | 03/31/10 |
| 27 | 1668-3 | STEROLS | 200 | MEOH | 10/30/10 |
| 28# | 1684-1 | ADD. PEST | 4 | ACETONE | 03/25/10 |
| 29# | 1496-3 | DECANES | 100 | MEOH | NA |
| 30 | 1620-1 | EDB/DBCP | 0.2 | MEOH | 06/22/10 |

LCS SOLUTIONS

3/6/2010

| | | | | | |
|-----------------------------|--------|-------------|--------|---------|----------|
| 31 | 1596-1 | TERPINEOL | 100 | MEOH | 04/03/10 |
| 32 | 1619-3 | GUAIACOL | 50-200 | ACETONE | 04/30/10 |
| 33 | 1639-3 | RETENE | 100 | MEOH | 09/03/10 |
| 34 | 1633-1 | CONGENERES | 2.5 | ACETONE | 08/11/10 |
| 35 | 1674-3 | ALKYL PNA A | 10 | MEOH | 10/28/10 |
| 36 | 1601-3 | ALKYL PNA B | 10 | MEOH | 05/13/10 |
| 50 | 1617-1 | FULL RESIN | 250 | ACETONE | 06/17/10 |
| 51 | 1696-3 | DDTS | 2.5 | ACETONE | 06/03/10 |
| 52 | 1613-5 | 1232 PCB | 20 | ACETONE | 06/16/10 |
| 53 | 1703-3 | DALAPON | 50 | MEOH | 09/11/10 |
| 54 | 1701-2 | PBDE | 0.5 | ACETONE | 02/10/11 |
| #=PROJECT SPECIFIC SOLUTION | | | | | |
| *=REVERIFIED SOLUTION | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Data Summary Package

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

SIM SEMIVOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: CB31A031010COMP

SAMPLE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *B*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 19:34

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.014 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.023 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.033 |
| 129-00-0 | Pyrene | 0.010 | 0.038 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | 0.015 |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | 0.012 |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.7%
d14-Dibenzo(a,h)anthracene 39.0%

ORGANICS ANALYSIS DATA SHEET

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

Page 1 of 1


Sample ID: CB4857031010COMP

SAMPLE

Lab Sample ID: QN21B

LIMS ID: 10-5975

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 20:45

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.015 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.017 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.022 |
| 129-00-0 | Pyrene | 0.010 | 0.023 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | 0.014 |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in µg/L (ppb)


SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.7%
d14-Dibenzo(a,h)anthracene 42.0%

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1031010COMP
SAMPLE

Lab Sample ID: QN21C
LIMS ID: 10-5976
Matrix: Water
Data Release Authorized: 
Reported: 03/24/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Event: NA
Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/13/10
Date Analyzed: 03/22/10 21:08
Instrument/Analyst: NT8/YZ

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

| CAS Number | Analyte | RL | Result |
|----------------|------------------------|--------------|----------------|
| 91-20-3 | Naphthalene | 0.010 | 0.012 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.013 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | < 0.010 U |
| 129-00-0 | Pyrene | 0.010 | < 0.010 U |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |


Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 61.3%
d14-Dibenzo(a,h)anthracene 53.3%

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

Sample ID: CB101031010COMP
SAMPLE

Lab Sample ID: QN21D
LIMS ID: 10-5977
Matrix: Water
Data Release Authorized: 
Reported: 03/24/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Event: NA
Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/13/10
Date Analyzed: 03/22/10 21:32
Instrument/Analyst: NT8/YZ

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

| CAS Number | Analyte | RL | Result |
|-----------------|------------------------|--------------|----------------|
| 91-20-3 | Naphthalene | 0.010 | 0.011 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.016 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.017 |
| 129-00-0 | Pyrene | 0.010 | 0.020 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in $\mu\text{g/L}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.7%
d14-Dibenzo(a,h)anthracene 41.7%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

| <u>Client ID</u> | <u>MNP</u> | <u>DBA</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-031310 | 72.3% | 72.0% | 0 |
| LCS-031310 | 68.0% | 75.7% | 0 |
| LCSD-031310 | 71.0% | 79.3% | 0 |
| CB31A031010COMP | 60.7% | 39.0% | 0 |
| CB31A031010COMP MS | 60.3% | 50.7% | 0 |
| CB31A031010COMP MSD | 63.3% | 45.7% | 0 |
| CB4857031010COMP | 60.7% | 42.0% | 0 |
| CB1031010COMP | 61.3% | 53.3% | 0 |
| CB101031010COMP | 53.7% | 41.7% | 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: SW3520C
Log Number Range: 10-5974 to 10-5977

FORM-II SIM SW8270

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: CB31A031010COMP

MATRIX SPIKE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted MS/MSD: 03/13/10

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 03/22/10 19:57

Final Extract Volume MS: 0.50 mL

MSD: 03/22/10 20:21

MSD: 0.50 mL

Instrument/Analyst MS: NT8/YZ

Dilution Factor MS: 1.00

MSD: NT8/YZ

MSD: 1.00

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|------------------------|------------|---------|----------------|-------------|---------|-----------------|--------------|-------|
| Naphthalene | 0.0136 B | 0.187 B | 0.300 | 57.8% | 0.183 B | 0.300 | 56.5% | 2.2% |
| 2-Methylnaphthalene | < 0.0100 U | 0.197 | 0.300 | 65.7% | 0.193 | 0.300 | 64.3% | 2.1% |
| 1-Methylnaphthalene | < 0.0100 U | 0.187 | 0.300 | 62.3% | 0.185 | 0.300 | 61.7% | 1.1% |
| Acenaphthylene | < 0.0100 U | 0.200 | 0.300 | 66.7% | 0.207 | 0.300 | 69.0% | 3.4% |
| Acenaphthene | < 0.0100 U | 0.200 | 0.300 | 66.7% | 0.204 | 0.300 | 68.0% | 2.0% |
| Fluorene | < 0.0100 U | 0.229 | 0.300 | 76.3% | 0.227 | 0.300 | 75.7% | 0.9% |
| Phenanthrene | 0.0231 | 0.257 | 0.300 | 78.0% | 0.279 | 0.300 | 85.3% | 8.2% |
| Anthracene | < 0.0100 U | 0.237 | 0.300 | 79.0% | 0.254 | 0.300 | 84.7% | 6.9% |
| Fluoranthene | 0.0334 | 0.292 | 0.300 | 86.2% | 0.312 | 0.300 | 92.9% | 6.6% |
| Pyrene | 0.0380 | 0.295 | 0.300 | 85.7% | 0.315 | 0.300 | 92.3% | 6.6% |
| Benzo(a)anthracene | < 0.0100 U | 0.242 | 0.300 | 80.7% | 0.235 | 0.300 | 78.3% | 2.9% |
| Chrysene | 0.0150 | 0.221 | 0.300 | 68.7% | 0.213 | 0.300 | 66.0% | 3.7% |
| Benzo(b)fluoranthene | < 0.0100 U | 0.164 | 0.300 | 54.7% | 0.154 | 0.300 | 51.3% | 6.3% |
| Benzo(k)fluoranthene | < 0.0100 U | 0.164 | 0.300 | 54.7% | 0.154 | 0.300 | 51.3% | 6.3% |
| Benzo(a)pyrene | < 0.0100 U | 0.179 | 0.300 | 59.7% | 0.169 | 0.300 | 56.3% | 5.7% |
| Indeno(1,2,3-cd)pyrene | < 0.0100 U | 0.144 | 0.300 | 48.0% | 0.128 | 0.300 | 42.7% | 11.8% |
| Dibenz(a,h)anthracene | < 0.0100 U | 0.142 | 0.300 | 47.3% | 0.129 | 0.300 | 43.0% | 9.6% |
| Benzo(g,h,i)perylene | 0.0115 | 0.152 | 0.300 | 46.8% | 0.141 | 0.300 | 43.2% | 7.5% |
| Dibenzofuran | < 0.0100 U | 0.209 | 0.300 | 69.7% | 0.209 | 0.300 | 69.7% | 0.0% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

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

Page 1 of 1


Sample ID: CB31A031010COMP

MATRIX SPIKE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 19:57

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|--------|
| 91-20-3 | Naphthalene | 0.010 | --- |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | --- |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | --- |
| 208-96-8 | Acenaphthylene | 0.010 | --- |
| 83-32-9 | Acenaphthene | 0.010 | --- |
| 86-73-7 | Fluorene | 0.010 | --- |
| 85-01-8 | Phenanthrene | 0.010 | --- |
| 120-12-7 | Anthracene | 0.010 | --- |
| 206-44-0 | Fluoranthene | 0.010 | --- |
| 129-00-0 | Pyrene | 0.010 | --- |
| 56-55-3 | Benzo(a)anthracene | 0.010 | --- |
| 218-01-9 | Chrysene | 0.010 | --- |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | --- |
| 207-08-9 | Benzo(k)fluoranthene | 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 | --- |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | --- |
| 132-64-9 | Dibenzofuran | 0.010 | --- |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.3%
d14-Dibenzo(a,h)anthracene 50.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: CB31A031010COMP

MATRIX SPIKE DUPLICATE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 20:21

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|--------|
| 91-20-3 | Naphthalene | 0.010 | --- |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | --- |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | --- |
| 208-96-8 | Acenaphthylene | 0.010 | --- |
| 83-32-9 | Acenaphthene | 0.010 | --- |
| 86-73-7 | Fluorene | 0.010 | --- |
| 85-01-8 | Phenanthrene | 0.010 | --- |
| 120-12-7 | Anthracene | 0.010 | --- |
| 206-44-0 | Fluoranthene | 0.010 | --- |
| 129-00-0 | Pyrene | 0.010 | --- |
| 56-55-3 | Benzo(a) anthracene | 0.010 | --- |
| 218-01-9 | Chrysene | 0.010 | --- |
| 205-99-2 | Benzo(b) fluoranthene | 0.010 | --- |
| 207-08-9 | Benzo(k) fluoranthene | 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 | --- |
| 191-24-2 | Benzo(g,h,i) perylene | 0.010 | --- |
| 132-64-9 | Dibenzofuran | 0.010 | --- |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.3%
d14-Dibenzo(a,h)anthracene 45.7%

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

Sample ID: LCS-031310
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031310
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: *AB*
Reported: 03/24/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/13/10
Date Analyzed LCS: 03/22/10 18:46
LCSD: 03/22/10 19:10
Instrument/Analyst LCS: NT8/YZ
LCSD: NT8/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 | | RPD |
|------------------------|-------|-----------|----------|-------|------------|----------|-------|--|-----|
| | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | LCSD | | |
| Naphthalene | 0.202 | 0.300 | 67.3% | 0.215 | 0.300 | 71.7% | 6.2% | | |
| 2-Methylnaphthalene | 0.205 | 0.300 | 68.3% | 0.213 | 0.300 | 71.0% | 3.8% | | |
| 1-Methylnaphthalene | 0.198 | 0.300 | 66.0% | 0.208 | 0.300 | 69.3% | 4.9% | | |
| Acenaphthylene | 0.180 | 0.300 | 60.0% | 0.195 | 0.300 | 65.0% | 8.0% | | |
| Acenaphthene | 0.208 | 0.300 | 69.3% | 0.215 | 0.300 | 71.7% | 3.3% | | |
| Fluorene | 0.228 | 0.300 | 76.0% | 0.240 | 0.300 | 80.0% | 5.1% | | |
| Phenanthrene | 0.243 | 0.300 | 81.0% | 0.253 | 0.300 | 84.3% | 4.0% | | |
| Anthracene | 0.214 | 0.300 | 71.3% | 0.227 | 0.300 | 75.7% | 5.9% | | |
| Fluoranthene | 0.272 | 0.300 | 90.7% | 0.285 | 0.300 | 95.0% | 4.7% | | |
| Pyrene | 0.259 | 0.300 | 86.3% | 0.281 | 0.300 | 93.7% | 8.1% | | |
| Benzo(a)anthracene | 0.260 | 0.300 | 86.7% | 0.293 | 0.300 | 97.7% | 11.9% | | |
| Chrysene | 0.259 | 0.300 | 86.3% | 0.276 | 0.300 | 92.0% | 6.4% | | |
| Benzo(b)fluoranthene | 0.219 | 0.300 | 73.0% | 0.229 | 0.300 | 76.3% | 4.5% | | |
| Benzo(k)fluoranthene | 0.219 | 0.300 | 73.0% | 0.229 | 0.300 | 76.3% | 4.5% | | |
| Benzo(a)pyrene | 0.181 | 0.300 | 60.3% | 0.205 | 0.300 | 68.3% | 12.4% | | |
| Indeno(1,2,3-cd)pyrene | 0.203 | 0.300 | 67.7% | 0.216 | 0.300 | 72.0% | 6.2% | | |
| Dibenz(a,h)anthracene | 0.222 | 0.300 | 74.0% | 0.235 | 0.300 | 78.3% | 5.7% | | |
| Benzo(g,h,i)perylene | 0.196 | 0.300 | 65.3% | 0.215 | 0.300 | 71.7% | 9.2% | | |
| Dibenzofuran | 0.217 | 0.300 | 72.3% | 0.224 | 0.300 | 74.7% | 3.2% | | |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

| | LCS | LCSD |
|----------------------------|-------|-------|
| d10-2-Methylnaphthalene | 68.0% | 71.0% |
| d14-Dibenzo(a,h)anthracene | 75.7% | 79.3% |

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

| |
|----------|
| QN21MBW1 |
|----------|

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QN21
 Lab File ID: QN21MB
 Instrument ID: NT8
 Matrix: LIQUID

Client: FLOYD-SNIDER
 Project: LORA LAKES APARTMENT
 Date Extracted: 03/13/10
 Date Analyzed: 03/22/10
 Time Analyzed: 1823

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| 01 | QN21LCSW1 | QN21LCSW1 | QN21SB | 03/22/10 |
| 02 | QN21LCSDW1 | QN21LCSDW1 | QN21SBD | 03/22/10 |
| 03 | CB31A031010COMP | QN21A | QN21A | 03/22/10 |
| 04 | CB31A031010COMP | QN21AMS | QN21AMS | 03/22/10 |
| 05 | CB31A031010COMP | QN21AMSD | QN21AMSD | 03/22/10 |
| 06 | CB4857031010COMP | QN21B | QN21B | 03/22/10 |
| 07 | CB1031010COMP | QN21C | QN21C | 03/22/10 |
| 08 | CB101031010COMP | QN21D | QN21D | 03/22/10 |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MB-031310

METHOD BLANK

Lab Sample ID: MB-031310

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: NA

Date Received: NA

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 18:23

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.0062 J |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | < 0.010 U |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | < 0.010 U |
| 129-00-0 | Pyrene | 0.010 | < 0.010 U |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in $\mu\text{g/L}$ (ppb)


SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 72.3%
d14-Dibenzo(a,h)anthracene 72.0%

PCP/CHLOROPHENOLS ANALYSIS

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
SAMPLE

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 14:54
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 | 0.30 |

Reported in $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 55.2% |
|----------------------|-------|

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB4857031010COMP
SAMPLE

Lab Sample ID: QN21B
LIMS ID: 10-5975
Matrix: Water
Data Release Authorized: *AB*
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:54
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 | < 0.25 U |


Reported in $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 52.0% |
|----------------------|-------|

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1031010COMP
SAMPLE

Lab Sample ID: QN21C
LIMS ID: 10-5976
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 16:14
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 54.8% |
|----------------------|-------|

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB101031010COMP
SAMPLE

Lab Sample ID: QN21D
LIMS ID: 10-5977
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 16:33
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 60.4% |
|----------------------|-------|

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

| <u>Client ID</u> | <u>TBP</u> | <u>TOT OUT</u> |
|---------------------|------------|----------------|
| MB-031610 | 60.4% | 0 |
| LCS-031610 | 62.6% | 0 |
| LCSD-031610 | 48.4% | 0 |
| CB31A031010COMP | 55.2% | 0 |
| CB31A031010COMP MS | 61.6% | 0 |
| CB31A031010COMP MSD | 61.6% | 0 |
| CB4857031010COMP | 52.0% | 0 |
| CB1031010COMP | 54.8% | 0 |
| CB101031010COMP | 60.4% | 0 |

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol


(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 10-5974 to 10-5977

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MS/MSD

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted MS/MSD: 03/16/10

Sample Amount MS: 500 mL
MSD: 500 mL

Date Analyzed MS: 03/17/10 15:14
MSD: 03/17/10 15:34

Final Extract Volume MS: 50 mL
MSD: 50 mL

Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR


Dilution Factor MS: 1.00
MSD: 1.00

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|-------------------|--------|------|----------------|-------------|------|-----------------|--------------|------|
| Pentachlorophenol | 0.30 | 2.08 | 2.50 | 71.2% | 2.12 | 2.50 | 72.8% | 1.9% |

Results reported in $\mu\text{g/L}$
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:14
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 61.6% |
|----------------------|-------|

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE DUP

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:34
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 61.6% |
|----------------------|-------|

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: LCS-031610
LCS/LCSD

Lab Sample ID: LCS-031610
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted LCS/LCSD: 03/16/10

Sample Amount LCS: 500 mL
LCSD: 500 mL

Date Analyzed LCS: 03/17/10 12:54
LCSD: 03/17/10 13:14

Final Extract Volume LCS: 50 mL
LCSD: 50 mL

Instrument/Analyst LCS: ECD1/AAR
LCSD: ECD1/AAR

Dilution Factor LCS: 1.00
LCSD: 1.00

| Analyte | Spike | | LCS | LCSD | Spike | | LCSD | RPD |
|-------------------|-------|-----------|----------|------|------------|----------|------|-----|
| | LCS | Added-LCS | Recovery | | Added-LCSD | Recovery | | |
| Pentachlorophenol | 2.14 | 2.50 | 85.6% | 1.94 | 2.50 | 77.6% | 9.8% | |

Chlorophenols Surrogate Recovery

| | LCS | LCSD |
|----------------------|-------|-------|
| 2,4,6-Tribromophenol | 62.6% | 48.4% |

Results reported in $\mu\text{g/L}$
RPD calculated using sample concentrations per SW846.

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

| |
|----------|
| QN21MBW1 |
|----------|

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

Lab Sample ID: QN21MBW1

Lab File ID: 0317A005

Matrix (soil/water) LIQUID

Extraction: (SepF/Cont/Sonc) SW3510C

Sulfur Cleanup (Y/N) Y

Date Extracted: 03/16/10

Date Analyzed (1): 03/17/10

Date Analyzed (2): 03/17/10

Time Analyzed (1): 1234

Time Analyzed (2): 1234

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 | QN21LCSW1 | QN21LCSW1 | 03/17/10 | 03/17/10 |
| 02 | QN21LCSDW1 | QN21LCSDW1 | 03/17/10 | 03/17/10 |
| 03 | CB31A031010C | QN21A | 03/17/10 | 03/17/10 |
| 04 | CB31A031010C | QN21AMS | 03/17/10 | 03/17/10 |
| 05 | CB31A031010C | QN21AMSD | 03/17/10 | 03/17/10 |
| 06 | CB4857031010 | QN21B | 03/17/10 | 03/17/10 |
| 07 | CB1031010COM | QN21C | 03/17/10 | 03/17/10 |
| 08 | CB101031010C | QN21D | 03/17/10 | 03/17/10 |

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MB-031610
METHOD BLANK

Lab Sample ID: MB-031610
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: NA
Date Received: NA

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 12:34
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 60.4% |
|----------------------|-------|

METALS ANALYSIS

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: CB31A031010COMP
SAMPLE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: CB31A031010COMP

DUPLICATE


Lab Sample ID: QN21A

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5974

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|-------|---------------|---|
| Arsenic | 200.8 | 0.7 | 0.8 | 13.3% | +/- 0.2 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE


Lab Sample ID: QN21A

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5974

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.740 | 26.5 | 25.0 | 103% | |

Reported in µg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked


NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: CB4857031010COMP
SAMPLE

Lab Sample ID: QN21B
LIMS ID: 10-5975
Matrix: Water
Data Release Authorized 
Reported: 04/05/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: CB1031010COMP
SAMPLE


Lab Sample ID: QN21C

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5976

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 1.0 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: CB101031010COMP
SAMPLE

Lab Sample ID: QN21D

LIMS ID: 10-5977

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: CB31A031010COMP

SAMPLE

Lab Sample ID: QN21E

LIMS ID: 10-5978

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10


| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 04/01/10 | 7440-38-2 | Arsenic | 0.2 | 0.5 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE

Lab Sample ID: QN21E
LIMS ID: 10-5978
Matrix: Water
Data Release Authorized: 
Reported: 04/05/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.480 | 32.0 | 25.0 | 126% | N |

Reported in µg/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: CB31A031010COMP
DUPLICATE

Lab Sample ID: QN21E
LIMS ID: 10-5978
Matrix: Water
Data Release Authorized: 
Reported: 04/05/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|------|---------------|---|
| Arsenic | 200.8 | 0.5 | 0.5 | 0.0% | +/- 0.2 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

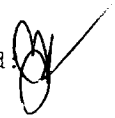
Sample ID: CB4857031010COMP

SAMPLE

Lab Sample ID: QN21F

LIMS ID: 10-5979

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

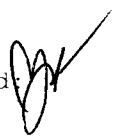
| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.4 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1031010COMP
SAMPLE

Lab Sample ID: QN21G
LIMS ID: 10-5980
Matrix: Water
Data Release Authorized: 
Reported: 04/05/10


QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.8 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB101031010COMP
SAMPLE

Lab Sample ID: QN21H
LIMS ID: 10-5981
Matrix: Water
Data Release Authorized: 
Reported: 04/05/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10


| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.5 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QN21LCS
LIMS ID: 10-5975
Matrix: Water
Data Release Authorized: 
Reported: 04/05/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|-----------------|-------------|-------------|------------|---|
| Arsenic | 200.8 | 25.4 | 25.0 | 102% | |

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QN21LCS

LIMS ID: 10-5979

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|-----------------|-------------|-------------|------------|---|
| Arsenic | 200.8 | 25.6 | 25.0 | 102% | |

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK


Lab Sample ID: QN21MB

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5975

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

**INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS**

Sample ID: METHOD BLANK

Page 1 of 1


Lab Sample ID: QN21MB

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5979

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA


| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

GENERAL CHEMISTRY ANALYSIS

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2



Data Release Authorized: 
Reported: 03/15/10
Date Received: 03/10/10
Page 1 of 1

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments


| Client/ ARI ID | Date Sampled | Matrix | Analysis Date & Batch | RL | Result |
|-----------------------------------|-----------------|--------|----------------------------|-----|--------|
| CB31A031010COMP QN21A 10-5974 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 11.2 |
| CB4857031010COMP QN21B 10-5975 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 7.0 |
| CB1031010COMP QN21C 10-5976 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 4.4 |
| CB101031010COMP QN21D 10-5977 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 7.1 |

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
QN21-Floyd-Snider




Matrix: Water
Data Release Authorized: 
Reported: 03/15/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | Blank |
|------------------------|----------------|-------|---------|
| Total Suspended Solids | 03/11/10 10:28 | mg/L | < 1.0 U |

LAB CONTROL RESULTS-CONVENTIONALS
QN21-Floyd-Snider



Matrix: Water
Data Release Authorized. 
Reported: 03/15/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | LCS | Spike Added | Recovery |
|------------------------|----------------|-------|------|-------------|----------|
| Total Suspended Solids | 03/11/10 10:28 | mg/L | 49.5 | 50.0 | 99.0% |

REPLICATE RESULTS-CONVENTIONALS
QN21-Floyd-Snider



Matrix: Water
Data Release Authorized
Reported: 03/15/10

A handwritten signature in black ink, appearing to be 'AS', written over the 'Data Release Authorized' text.

Project: Lora Lakes Apartments
Event: NA
Date Sampled: 03/10/10
Date Received: 03/10/10

| Analyte | Date | Units | Sample | Replicate (s) | RPD/RSD |
|--|----------|-------|--------|---------------|---------|
| ARI ID: QN21A Client ID: CB31A031010COMP | | | | | |
| Total Suspended Solids | 03/11/10 | mg/L | 11.2 | 10.6 | 5.5% |

SUBCONTRACTED ANALYSIS

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 6030

Received on: **03/12/2010**

Project Due: **04/05/2010** Storage: **R2**

| FAL Sample ID | Dup | Client Project ID | Client Sample ID | Requested Method | Matrix | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|------------------|------------------|---------|---------------|---------------|--------------------|
| 6030-001-SA | 0 | QN21 | CB31A031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 06:16 am | 03/10/2011 |
| 6030-002-SA | 0 | QN21 | CB4857031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 05:51 am | 03/10/2011 |
| 6030-003-SA | 0 | QN21 | CB1031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 05:45 am | 03/10/2011 |
| 6030-004-SA | 0 | QN21 | CB101031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 06:51 am | 03/10/2011 |

EPA Method 1613
PCDD/F



FAL ID: 6030-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.00

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 1.85 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.32 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 1.67 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 1.90 | | - | 0.381 | Total TCDD | ND | 1.85 | |
| 1,2,3,7,8,9-HxCDD | ND | 1.78 | | - | 0.351 | Total PeCDD | ND | 1.32 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 3.31 | | - | 0.495 | Total HxCDD | ND | 1.90 | |
| OCDD | ND | 5.34 | | - | 1.02 | Total HpCDD | ND | 3.31 | |
| 2,3,7,8-TCDF | ND | 0.726 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 2.38 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 2.38 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 1.25 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 1.20 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 1.24 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 1.53 | | - | 0.185 | Total TCDF | ND | 0.726 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 1.28 | | - | 0.251 | Total PeCDF | ND | 2.38 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 1.59 | | - | 0.280 | Total HxCDF | ND | 1.53 | |
| OCDF | ND | 3.40 | | - | 0.451 | Total HpCDF | ND | 1.59 | |


| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 76.9 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 66.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 65.4 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 69.5 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 64.5 | 23.0 - 140 | |
| 13C-OCDD | 60.9 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 77.1 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 62.1 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 63.2 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 64.0 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 65.7 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 67.5 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 63.4 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 62.3 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26.0 - 138 | |
| 13C-OCDF | 56.2 | 17.0 - 157 | |

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

Cleanup Surrogate

| | | |
|-------------------|------|------------|
| 37Cl-2,3,7,8-TCDD | 96.4 | 35.0 - 197 |
|-------------------|------|------------|

Analyst: 
Date: 3/22/10

Reviewed By: 
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-19-2010
2005 WHO TEQ: NA

| Compound | Conc | QC Limits | Qual |
|---------------------|------|-------------|------|
| 2,3,7,8-TCDD | 10.8 | 6.70 - 15.8 | |
| 1,2,3,7,8-PeCDD | 49.3 | 35.0 - 71.0 | |
| 1,2,3,4,7,8-HxCDD | 48.8 | 35.0 - 82.0 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 38.0 - 67.0 | |
| 1,2,3,7,8,9-HxCDD | 48.6 | 32.0 - 81.0 | |
| 1,2,3,4,6,7,8-HpCDD | 49.3 | 35.0 - 70.0 | |
| OCDD | 104 | 78.0 - 144 | |
| 2,3,7,8-TCDF | 9.24 | 7.50 - 15.8 | |
| 1,2,3,7,8-PeCDF | 50.0 | 40.0 - 67.0 | |
| 2,3,4,7,8-PeCDF | 50.9 | 34.0 - 80.0 | |
| 1,2,3,4,7,8-HxCDF | 51.6 | 36.0 - 67.0 | |
| 1,2,3,6,7,8-HxCDF | 50.7 | 42.0 - 65.0 | |
| 2,3,4,6,7,8-HxCDF | 50.6 | 35.0 - 78.0 | |
| 1,2,3,7,8,9-HxCDF | 51.5 | 39.0 - 65.0 | |
| 1,2,3,4,6,7,8-HpCDF | 48.8 | 41.0 - 61.0 | |
| 1,2,3,4,7,8,9-HpCDF | 49.4 | 39.0 - 69.0 | |
| OCDF | 97.4 | 63.0 - 170 | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 83.7 | 20.0 - 175 | |
| 13C-1,2,3,7,8-PeCDD | 62.3 | 21.0 - 227 | |
| 13C-1,2,3,4,7,8-HxCDD | 62.6 | 21.0 - 193 | |
| 13C-1,2,3,6,7,8-HxCDD | 65.4 | 25.0 - 163 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 61.1 | 26.0 - 166 | |
| 13C-OCDD | 58.1 | 13.0 - 198 | |
| 13C-2,3,7,8-TCDF | 85.6 | 22.0 - 152 | |
| 13C-1,2,3,7,8-PeCDF | 61.2 | 21.0 - 192 | |
| 13C-2,3,4,7,8-PeCDF | 62.6 | 13.0 - 328 | |
| 13C-1,2,3,4,7,8-HxCDF | 59.2 | 19.0 - 202 | |
| 13C-1,2,3,6,7,8-HxCDF | 63.6 | 21.0 - 159 | |
| 13C-2,3,4,6,7,8-HxCDF | 64.9 | 22.0 - 176 | |
| 13C-1,2,3,7,8,9-HxCDF | 57.7 | 17.0 - 205 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 61.8 | 21.0 - 158 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 58.1 | 20.0 - 186 | |
| 13C-OCDF | 53.7 | 13.0 - 198 | |

Cleanup Surrogate

| | | | |
|-------------------|-----|------------|--|
| 37Cl-2,3,7,8-TCDD | 111 | 31.0 - 191 | |
|-------------------|-----|------------|--|

Analyst: [Signature]

Date: 3/22/10

Reviewed By: [Signature]

Date: 3/22/10

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

EPA Method 1613
PCDD/F



FAL ID: 6030-001-SA
Client ID: CB31A031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.040 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 5.37

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.65 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.91 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 3.43 | - | J | 0.343 | 0.328 | Total TCDD | ND | 1.65 | |
| 1,2,3,6,7,8-HxCDD | 6.62 | - | J | 0.662 | 0.381 | Total PeCDD | ND | 1.91 | |
| 1,2,3,7,8,9-HxCDD | 5.82 | - | J | 0.582 | 0.351 | Total HxCDD | 46.6 | - | |
| 1,2,3,4,6,7,8-HpCDD | 167 | - | | 1.67 | 0.495 | Total HpCDD | 293 | - | |
| OCDD | 1390 | - | | 0.417 | 1.02 | | | | |
| 2,3,7,8-TCDF | ND | 0.613 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 1.16 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 1.19 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 6.61 | - | J | 0.661 | 0.162 | Total TCDF | 4.89 | - | D,M |
| 1,2,3,6,7,8-HxCDF | 3.07 | - | J | 0.307 | 0.167 | Total PeCDF | 18.7 | - | J |
| 2,3,4,6,7,8-HxCDF | 3.07 | - | J | 0.307 | 0.167 | Total HxCDF | 69.2 | - | D,M |
| 1,2,3,7,8,9-HxCDF | ND | 1.14 | | - | 0.185 | Total HpCDF | 103 | - | |
| 1,2,3,4,6,7,8-HpCDF | 34.6 | - | | 0.346 | 0.251 | | | | |
| 1,2,3,4,7,8,9-HpCDF | 4.58 | - | J | 0.0458 | 0.280 | | | | |
| OCDF | 85.2 | - | | 0.0256 | 0.451 | | | | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 91.4 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 87.0 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 87.2 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 85.8 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 96.2 | 23.0 - 140 | |
| 13C-OCDD | 93.9 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 92.4 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 86.0 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 84.2 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 84.2 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 79.5 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 82.0 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 84.7 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 85.6 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 91.7 | 26.0 - 138 | |
| 13C-OCDF | 84.9 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 108 35.0 - 197

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-002-SA
Client ID: CB4857031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.038 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.62

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.36 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.40 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 1.65 | - | J | 0.165 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 3.79 | - | J | 0.379 | 0.381 | Total TCDD | ND | 1.36 | |
| 1,2,3,7,8,9-HxCDD | 3.09 | - | J | 0.309 | 0.351 | Total PeCDD | ND | 1.40 | |
| 1,2,3,4,6,7,8-HpCDD | 76.2 | - | | 0.762 | 0.495 | Total HxCDD | 26.8 | - | |
| OCDD | 561 | - | | 0.168 | 1.02 | Total HpCDD | 137 | - | |
| 2,3,7,8-TCDF | ND | 0.443 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.809 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.857 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 3.08 | - | J | 0.308 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 1.56 | - | J | 0.156 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 1.98 | - | J | 0.198 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.591 | | - | 0.185 | Total TCDF | 2.83 | - | J |
| 1,2,3,4,6,7,8-HpCDF | 14.2 | - | J | 0.142 | 0.251 | Total PeCDF | 8.13 | - | J |
| 1,2,3,4,7,8,9-HpCDF | 1.91 | - | J | 0.0191 | 0.280 | Total HxCDF | 30.1 | - | |
| OCDF | 34.8 | - | J | 0.0104 | 0.451 | Total HpCDF | 41.3 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 93.6 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 86.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 90.6 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 87.2 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 98.8 | 23.0 - 140 | |
| 13C-OCDD | 96.6 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 91.9 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 84.7 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 81.5 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 83.7 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 80.9 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 85.7 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 86.8 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 90.0 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 93.8 | 26.0 - 138 | |
| 13C-OCDF | 88.4 | 17.0 - 157 | |

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

Cleanup Surrogate

| | | |
|-------------------|-----|------------|
| 37Cl-2,3,7,8-TCDD | 107 | 35.0 - 197 |
|-------------------|-----|------------|

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-003-SA
Client ID: CB1031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.027 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.298

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 1.52 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.37 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 2.06 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 2.48 | | - | 0.381 | Total TCDD | ND | 1.52 | |
| 1,2,3,7,8,9-HxCDD | ND | 2.25 | | - | 0.351 | Total PeCDD | ND | 1.37 | |
| 1,2,3,4,6,7,8-HpCDD | 24.1 | - | J | 0.241 | 0.495 | Total HxCDD | 9.71 | - | J |
| OCDD | 99.8 | - | | 0.0299 | 1.02 | Total HpCDD | 53.9 | - | |
| 2,3,7,8-TCDF | ND | 0.540 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.920 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.999 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 1.04 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 1.04 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 1.10 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 1.23 | | - | 0.185 | Total TCDF | ND | 0.540 | |
| 1,2,3,4,6,7,8-HpCDF | 2.73 | - | J | 0.0273 | 0.251 | Total PeCDF | ND | 0.999 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.828 | | - | 0.280 | Total HxCDF | 1.60 | - | J |
| OCDF | ND | 3.76 | | - | 0.451 | Total HpCDF | 5.14 | - | J |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 91.7 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 82.7 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 89.6 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 86.6 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 88.4 | 23.0 - 140 | |
| 13C-OCDD | 90.2 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 92.1 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 83.4 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 79.7 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 83.7 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 80.4 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 81.1 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 81.9 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 79.8 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 81.6 | 26.0 - 138 | |
| 13C-OCDF | 79.1 | 17.0 - 157 | |

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

Cleanup Surrogate

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

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-004-SA
Client ID: CB101031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.033 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.68

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.75 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.64 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 1.57 | - | J | 0.157 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 3.71 | - | J | 0.371 | 0.381 | Total TCDD | ND | 1.75 | |
| 1,2,3,7,8,9-HxCDD | 3.11 | - | J | 0.311 | 0.351 | Total PeCDD | ND | 1.64 | |
| 1,2,3,4,6,7,8-HpCDD | 78.8 | - | | 0.788 | 0.495 | Total HxCDD | 25.6 | - | |
| OCDD | 557 | - | | 0.167 | 1.02 | Total HpCDD | 140 | - | |
| 2,3,7,8-TCDF | ND | 0.534 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.942 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 1.05 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 3.15 | - | J | 0.315 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 1.59 | - | J | 0.159 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 2.08 | - | J | 0.208 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.828 | | - | 0.185 | Total TCDF | 2.09 | - | J |
| 1,2,3,4,6,7,8-HpCDF | 16.9 | - | J | 0.169 | 0.251 | Total PeCDF | 5.46 | - | J |
| 1,2,3,4,7,8,9-HpCDF | 2.14 | - | J | 0.0214 | 0.280 | Total HxCDF | 30.7 | - | |
| OCDF | 39.5 | - | J | 0.0118 | 0.451 | Total HpCDF | 48.7 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 93.6 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 86.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 86.8 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 84.9 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 90.8 | 23.0 - 140 | |
| 13C-OCDD | 92.4 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 93.0 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 86.5 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 82.6 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 81.5 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 78.7 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 82.4 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 81.0 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 85.6 | 26.0 - 138 | |
| 13C-OCDF | 81.6 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 110 35.0 - 197

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

Laboratory Data Package

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

| <u>Client ID</u> | <u>MNP</u> | <u>DBA</u> | <u>TOT OUT</u> |
|---------------------|------------|------------|----------------|
| MB-031310 | 72.3% | 72.0% | 0 |
| LCS-031310 | 68.0% | 75.7% | 0 |
| LCSD-031310 | 71.0% | 79.3% | 0 |
| CB31A031010COMP | 60.7% | 39.0% | 0 |
| CB31A031010COMP MS | 60.3% | 50.7% | 0 |
| CB31A031010COMP MSD | 63.3% | 45.7% | 0 |
| CB4857031010COMP | 60.7% | 42.0% | 0 |
| CB1031010COMP | 61.3% | 53.3% | 0 |
| CB101031010COMP | 53.7% | 41.7% | 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: SW3520C
Log Number Range: 10-5974 to 10-5977

FORM-II SIM SW8270

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: CB31A031010COMP

MATRIX SPIKE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted MS/MSD: 03/13/10

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 03/22/10 19:57

Final Extract Volume MS: 0.50 mL

MSD: 03/22/10 20:21

MSD: 0.50 mL

Instrument/Analyst MS: NT8/YZ

Dilution Factor MS: 1.00

MSD: NT8/YZ

MSD: 1.00

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|------------------------|------------|---------|----------------|-------------|---------|-----------------|--------------|-------|
| Naphthalene | 0.0136 B | 0.187 B | 0.300 | 57.8% | 0.183 B | 0.300 | 56.5% | 2.2% |
| 2-Methylnaphthalene | < 0.0100 U | 0.197 | 0.300 | 65.7% | 0.193 | 0.300 | 64.3% | 2.1% |
| 1-Methylnaphthalene | < 0.0100 U | 0.187 | 0.300 | 62.3% | 0.185 | 0.300 | 61.7% | 1.1% |
| Acenaphthylene | < 0.0100 U | 0.200 | 0.300 | 66.7% | 0.207 | 0.300 | 69.0% | 3.4% |
| Acenaphthene | < 0.0100 U | 0.200 | 0.300 | 66.7% | 0.204 | 0.300 | 68.0% | 2.0% |
| Fluorene | < 0.0100 U | 0.229 | 0.300 | 76.3% | 0.227 | 0.300 | 75.7% | 0.9% |
| Phenanthrene | 0.0231 | 0.257 | 0.300 | 78.0% | 0.279 | 0.300 | 85.3% | 8.2% |
| Anthracene | < 0.0100 U | 0.237 | 0.300 | 79.0% | 0.254 | 0.300 | 84.7% | 6.9% |
| Fluoranthene | 0.0334 | 0.292 | 0.300 | 86.2% | 0.312 | 0.300 | 92.9% | 6.6% |
| Pyrene | 0.0380 | 0.295 | 0.300 | 85.7% | 0.315 | 0.300 | 92.3% | 6.6% |
| Benzo(a)anthracene | < 0.0100 U | 0.242 | 0.300 | 80.7% | 0.235 | 0.300 | 78.3% | 2.9% |
| Chrysene | 0.0150 | 0.221 | 0.300 | 68.7% | 0.213 | 0.300 | 66.0% | 3.7% |
| Benzo(b)fluoranthene | < 0.0100 U | 0.164 | 0.300 | 54.7% | 0.154 | 0.300 | 51.3% | 6.3% |
| Benzo(k)fluoranthene | < 0.0100 U | 0.164 | 0.300 | 54.7% | 0.154 | 0.300 | 51.3% | 6.3% |
| Benzo(a)pyrene | < 0.0100 U | 0.179 | 0.300 | 59.7% | 0.169 | 0.300 | 56.3% | 5.7% |
| Indeno(1,2,3-cd)pyrene | < 0.0100 U | 0.144 | 0.300 | 48.0% | 0.128 | 0.300 | 42.7% | 11.8% |
| Dibenz(a,h)anthracene | < 0.0100 U | 0.142 | 0.300 | 47.3% | 0.129 | 0.300 | 43.0% | 9.6% |
| Benzo(g,h,i)perylene | 0.0115 | 0.152 | 0.300 | 46.8% | 0.141 | 0.300 | 43.2% | 7.5% |
| Dibenzofuran | < 0.0100 U | 0.209 | 0.300 | 69.7% | 0.209 | 0.300 | 69.7% | 0.0% |

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: LCS-031310

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031310

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *AS*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 03/13/10

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 03/22/10 18:46

Final Extract Volume LCS: 0.50 mL

LCSD: 03/22/10 19:10

LCSD: 0.50 mL

Instrument/Analyst LCS: NT8/YZ

Dilution Factor LCS: 1.00

LCSD: NT8/YZ

LCSD: 1.00

| Analyte | LCS | Spike | | LCS Recovery | LCSD | Spike | | LCSD Recovery | RPD |
|------------------------|-------|-----------|------------|--------------|-------|-----------|------------|---------------|-------|
| | | Added-LCS | Added-LCSD | | | Added-LCS | Added-LCSD | | |
| Naphthalene | 0.202 | 0.300 | 0.300 | 67.3% | 0.215 | 0.300 | 0.300 | 71.7% | 6.2% |
| 2-Methylnaphthalene | 0.205 | 0.300 | 0.300 | 68.3% | 0.213 | 0.300 | 0.300 | 71.0% | 3.8% |
| 1-Methylnaphthalene | 0.198 | 0.300 | 0.300 | 66.0% | 0.208 | 0.300 | 0.300 | 69.3% | 4.9% |
| Acenaphthylene | 0.180 | 0.300 | 0.300 | 60.0% | 0.195 | 0.300 | 0.300 | 65.0% | 8.0% |
| Acenaphthene | 0.208 | 0.300 | 0.300 | 69.3% | 0.215 | 0.300 | 0.300 | 71.7% | 3.3% |
| Fluorene | 0.228 | 0.300 | 0.300 | 76.0% | 0.240 | 0.300 | 0.300 | 80.0% | 5.1% |
| Phenanthrene | 0.243 | 0.300 | 0.300 | 81.0% | 0.253 | 0.300 | 0.300 | 84.3% | 4.0% |
| Anthracene | 0.214 | 0.300 | 0.300 | 71.3% | 0.227 | 0.300 | 0.300 | 75.7% | 5.9% |
| Fluoranthene | 0.272 | 0.300 | 0.300 | 90.7% | 0.285 | 0.300 | 0.300 | 95.0% | 4.7% |
| Pyrene | 0.259 | 0.300 | 0.300 | 86.3% | 0.281 | 0.300 | 0.300 | 93.7% | 8.1% |
| Benzo(a)anthracene | 0.260 | 0.300 | 0.300 | 86.7% | 0.293 | 0.300 | 0.300 | 97.7% | 11.9% |
| Chrysene | 0.259 | 0.300 | 0.300 | 86.3% | 0.276 | 0.300 | 0.300 | 92.0% | 6.4% |
| Benzo(b)fluoranthene | 0.219 | 0.300 | 0.300 | 73.0% | 0.229 | 0.300 | 0.300 | 76.3% | 4.5% |
| Benzo(k)fluoranthene | 0.219 | 0.300 | 0.300 | 73.0% | 0.229 | 0.300 | 0.300 | 76.3% | 4.5% |
| Benzo(a)pyrene | 0.181 | 0.300 | 0.300 | 60.3% | 0.205 | 0.300 | 0.300 | 68.3% | 12.4% |
| Indeno(1,2,3-cd)pyrene | 0.203 | 0.300 | 0.300 | 67.7% | 0.216 | 0.300 | 0.300 | 72.0% | 6.2% |
| Dibenz(a,h)anthracene | 0.222 | 0.300 | 0.300 | 74.0% | 0.235 | 0.300 | 0.300 | 78.3% | 5.7% |
| Benzo(g,h,i)perylene | 0.196 | 0.300 | 0.300 | 65.3% | 0.215 | 0.300 | 0.300 | 71.7% | 9.2% |
| Dibenzofuran | 0.217 | 0.300 | 0.300 | 72.3% | 0.224 | 0.300 | 0.300 | 74.7% | 3.2% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

| | LCS | LCSD |
|----------------------------|-------|-------|
| d10-2-Methylnaphthalene | 68.0% | 71.0% |
| d14-Dibenzo(a,h)anthracene | 75.7% | 79.3% |

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

QN21MBW1

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QN21
 Lab File ID: QN21MB
 Instrument ID: NT8
 Matrix: LIQUID

Client: FLOYD-SNIDER
 Project: LORA LAKES APARTMENT
 Date Extracted: 03/13/10
 Date Analyzed: 03/22/10
 Time Analyzed: 1823

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| | ===== | ===== | ===== | ===== |
| 01 | QN21LCSW1 | QN21LCSW1 | QN21SB | 03/22/10 |
| 02 | QN21LCSDW1 | QN21LCSDW1 | QN21SBD | 03/22/10 |
| 03 | CB31A031010COMP | QN21A | QN21A | 03/22/10 |
| 04 | CB31A031010COMP | QN21AMS | QN21AMS | 03/22/10 |
| 05 | CB31A031010COMP | QN21AMSD | QN21AMSD | 03/22/10 |
| 06 | CB4857031010COMP | QN21B | QN21B | 03/22/10 |
| 07 | CB1031010COMP | QN21C | QN21C | 03/22/10 |
| 08 | CB101031010COMP | QN21D | QN21D | 03/22/10 |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

Instrument ID: NT8

Project: LORA LAKES APARTMENTS

DFTPP Injection Date: 03/22/10

DFTPP Injection Time: 1521

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 27.0 |
| 68 | Less than 2.0% of mass 69 | 1.2 (1.8)1 |
| 69 | Mass 69 relative abundance | 67.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 (0.4)1 |
| 127 | 10.0 - 80.0% of mass 198 | 57.2 |
| 197 | Less than 2.0% of mass 198 | 0.7 |
| 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 | 21.2 |
| 365 | Greater than 1.0% of mass 198 | 2.84 |
| 441 | 0.0 - 24.0% of mass 442 | 10.3 (14.2)2 |
| 442 | 50.0 - 200.0% of mass 198 | 72.3 |
| 443 | 15.0 - 24.0% of mass 442 | 13.8 (19.1)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 | | IC0322A | IC0322A | 03/22/10 | 1537 |
| 02 | | IC0322B | IC0322B | 03/22/10 | 1600 |
| 03 | | IC0322C | IC0322C | 03/22/10 | 1624 |
| 04 | | IC0322D | IC0322D | 03/22/10 | 1648 |
| 05 | | IC0322E | IC0322E | 03/22/10 | 1712 |
| 06 | | IC0322F | IC0322F | 03/22/10 | 1735 |
| 07 | QN21MBW1 | QN21MBW1 | QN21MB | 03/22/10 | 1823 |
| 08 | QN21LCSW1 | QN21LCSW1 | QN21SB | 03/22/10 | 1846 |
| 09 | QN21LCSDW1 | QN21LCSDW1 | QN21SBD | 03/22/10 | 1910 |
| 10 | CB31A031010COMP | QN21A | QN21A | 03/22/10 | 1934 |
| 11 | CB31A031010COMP | QN21AMS | QN21AMS | 03/22/10 | 1957 |
| 12 | CB31A031010COMP | QN21AMSD | QN21AMSD | 03/22/10 | 2021 |
| 13 | CB4857031010COMP | QN21B | QN21B | 03/22/10 | 2045 |
| 14 | CB1031010COMP | QN21C | QN21C | 03/22/10 | 2108 |
| 15 | CB101031010COMP | QN21D | QN21D | 03/22/10 | 2132 |
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8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN21

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: IC0322A

Ical Date: 03/22/10

Instrument ID: NT8

Cont. Cal Date: 03/22/10

| | IS1 (NPT) AREA # | RT # | IS2 (ANT) AREA # | RT # | IS3 (PHN) AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 218805 | 4.74 | 119440 | 6.56 | 183479 | 8.24 |
| UPPER LIMIT | 437610 | | 238880 | | 366958 | |
| LOWER LIMIT | 109402 | | 59720 | | 91740 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 200151 | 4.74 | 106361 | 6.56 | 169703 | 8.24 |
| UPPER LIMIT | | 5.24 | | 7.06 | | 8.74 |
| LOWER LIMIT | | 4.24 | | 6.06 | | 7.74 |
| 01 QN21MBW1 | 192963 | 4.74 | 104113 | 6.56 | 158821 | 8.24 |
| 02 QN21LCSW1 | 210277 | 4.74 | 114535 | 6.56 | 177509 | 8.24 |
| 03 QN21LCSDW1 | 207630 | 4.74 | 114275 | 6.56 | 173398 | 8.24 |
| 04 CB31A031010C | 212612 | 4.74 | 112428 | 6.56 | 171875 | 8.24 |
| 05 CB31A031010C | 203961 | 4.74 | 114709 | 6.56 | 176895 | 8.24 |
| 06 CB31A031010C | 212780 | 4.74 | 118339 | 6.56 | 180923 | 8.24 |
| 07 CB4857031010 | 208367 | 4.74 | 113388 | 6.56 | 168281 | 8.24 |
| 08 CB1031010COM | 208147 | 4.74 | 113668 | 6.56 | 172296 | 8.24 |
| 09 CB101031010C | 214012 | 4.74 | 113375 | 6.56 | 169776 | 8.24 |
| 10 | | | | | | |
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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: QN21

Project: LORA LAKES APARTMENTS

Ical Midpoint ID: IC0322A

Ical Date: 03/22/10

Instrument ID: NT8

Cont. Cal Date: 03/22/10

| | IS4 (CRY) AREA # | RT # | IS5 (PRY) AREA # | RT # | AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 121669 | 11.42 | 102197 | 13.03 | | |
| UPPER LIMIT | 243338 | | 204394 | | | |
| LOWER LIMIT | 60834 | | 51098 | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 105931 | 11.42 | 86370 | 13.02 | | |
| UPPER LIMIT | | 11.92 | | 13.52 | | |
| LOWER LIMIT | | 10.92 | | 12.52 | | |
| 01 QN21MBW1 | 106343 | 11.42 | 93285 | 13.03 | | |
| 02 QN21LCSW1 | 118443 | 11.42 | 110104 | 13.03 | | |
| 03 QN21LCSDW1 | 113265 | 11.42 | 106904 | 13.02 | | |
| 04 CB31A031010C | 125933 | 11.42 | 115279 | 13.02 | | |
| 05 CB31A031010C | 117279 | 11.42 | 107459 | 13.02 | | |
| 06 CB31A031010C | 133122 | 11.42 | 120709 | 13.02 | | |
| 07 CB4857031010 | 116414 | 11.42 | 112899 | 13.02 | | |
| 08 CB1031010COM | 124177 | 11.42 | 113065 | 13.03 | | |
| 09 CB101031010C | 116373 | 11.42 | 115509 | 13.02 | | |
| 10 | | | | | | |
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| 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.

SIM Semivolatile Analysis
Sample Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: CB31A031010COMP

SAMPLE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *B*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 19:34

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.014 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.023 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.033 |
| 129-00-0 | Pyrene | 0.010 | 0.038 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | 0.015 |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | 0.012 |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

| | |
|----------------------------|-------|
| d10-2-Methylnaphthalene | 60.7% |
| d14-Dibenzo(a,h)anthracene | 39.0% |

YZ-3/24/10

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21a.d
 Lab Smp Id: QN21A Client Smp ID: CB31A031010COMP
 Inj Date : 22-MAR-2010 19:34
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21A
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|-------|-------|---------|--------|----------|------------------------|--------------|
| | | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 212612 | 200.000 | | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 16361 | 13.6095 | B 13.6 | |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 120909 | 181.795 | 182 | |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 | (1.147) | 5176 | 7.10379 | J 7.10 | |
| 8 1-Methylnaphthalene | 142 | | | | | | Compound Not Detected. | |
| 10 Acenaphthylene | 152 | | | | | | Compound Not Detected. | |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 112428 | 200.000 | | |
| 12 Acenaphthene | 153 | | | | | | Compound Not Detected. | |
| 14 Dibenzofuran | 168 | | | | | | Compound Not Detected. | |
| 15 Fluorene | 166 | | | | | | Compound Not Detected. | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 171875 | 200.000 | | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 22566 | 23.0833 | ✓ 23.1 | |
| 20 Anthracene | 178 | | | | | | Compound Not Detected. | |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 33250 | 33.3913 | ✓ 33.4 | |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 39111 | 38.0198 | ✓ 38.0 | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|---------------------------------|-------------------|------------------------|--------|---------|----------|-----------------------------|------------------|--|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) | |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (0.998) | 4797 | 6.38454 <i>J</i> | 6.38 | |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 125933 | 200.000 | | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.002) | 16459 | 15.0365 | 15.0 (M) | |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 15191 | Σ 17.1782 <i>745</i> | 17.2 <i>J</i> | |
| 33 Benzo(k)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 15375 | 12.6438 <i>745</i> | 12.6 <i>J</i> | |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (0.996) | 4144 | 5.36998 <i>J</i> | 5.37 | |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 115279 | 200.000 | | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | Compound Not Detected. | | | | | | |
| § 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.078) | 68659 | 116.710 | 117 | |
| 38 Dibenzo(a,h)anthracene | 278 | Compound Not Detected. | | | | | | |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.098) | 10261 | 11.5430 | 11.5 | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21a.d
 Lab Smp Id: QN21A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB31A031010COMP
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

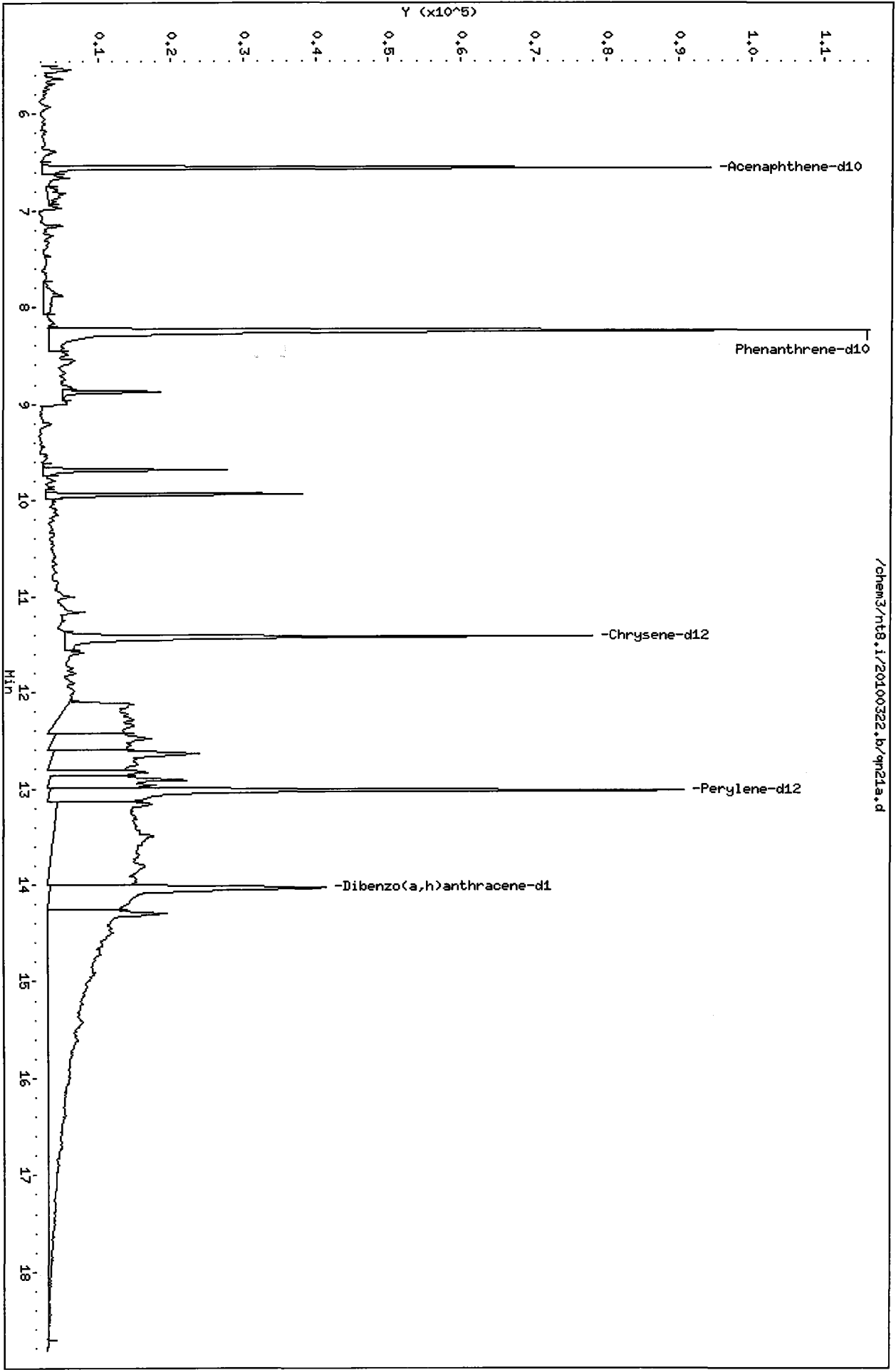
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 212612 | -2.83 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 112428 | -5.87 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 171875 | -6.32 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 125933 | 3.50 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 115279 | 12.80 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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/nt8.i/20100322.b/qn21a.d
Date : 22-MAR-2010 19:34
Client ID: CB31A0310100DHP
Sample Info: QN21A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

Operator: VTS

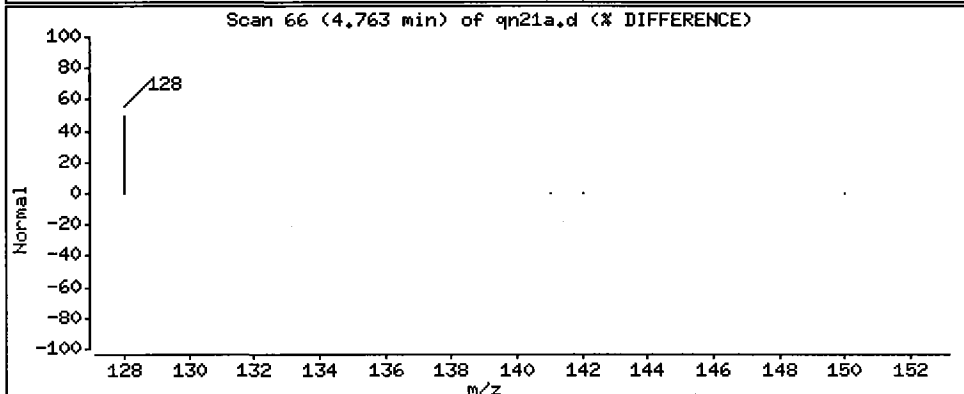
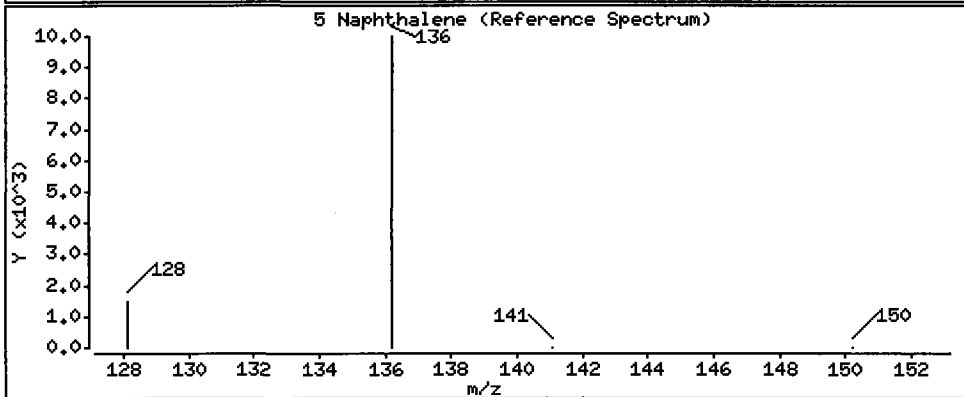
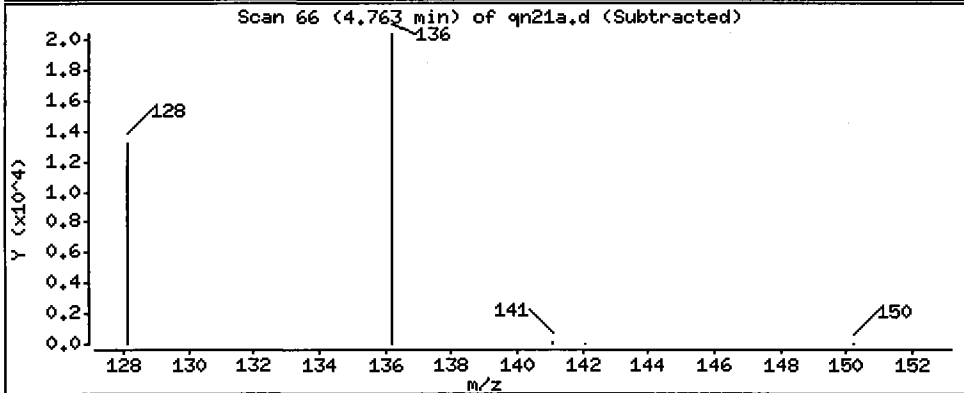
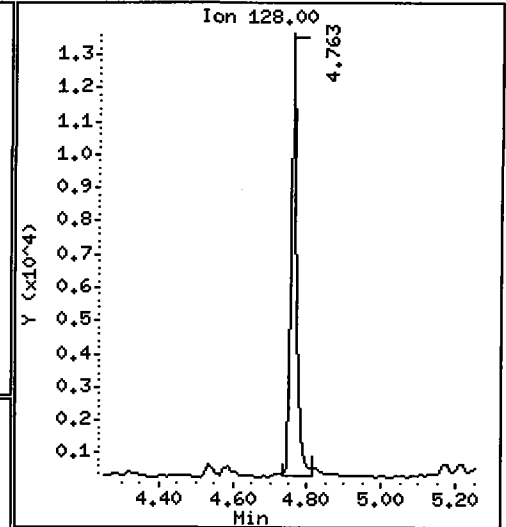
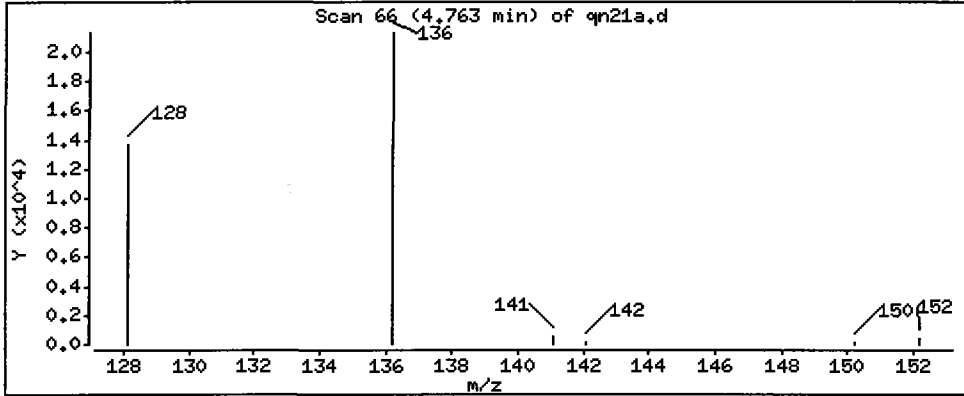
Column phase: ZB-5

Column diameter: 0.25

5 Naphthalene

Concentration: 13.6 ug/L

B



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

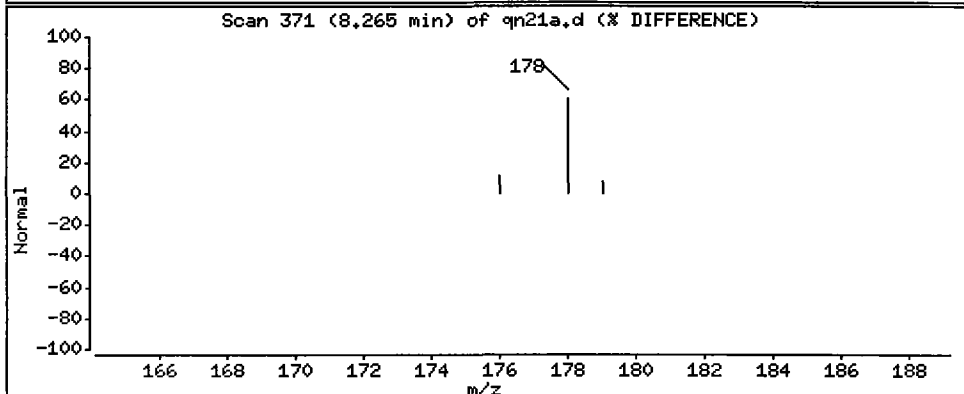
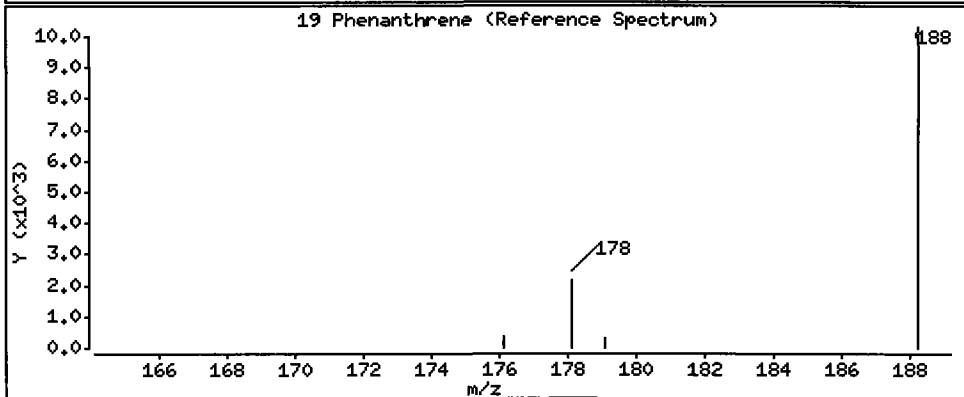
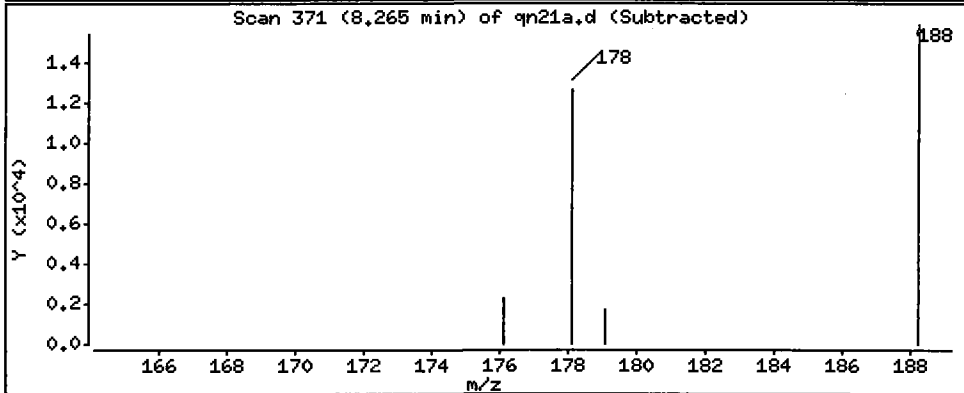
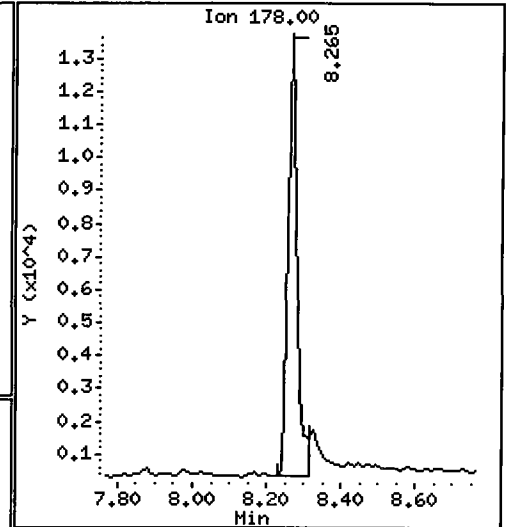
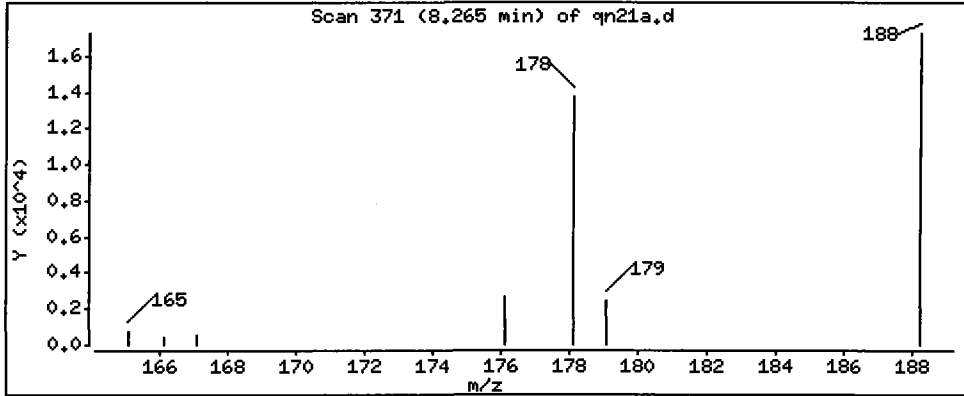
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

19 Phenanthrene

Concentration: 23.1 ug/L



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

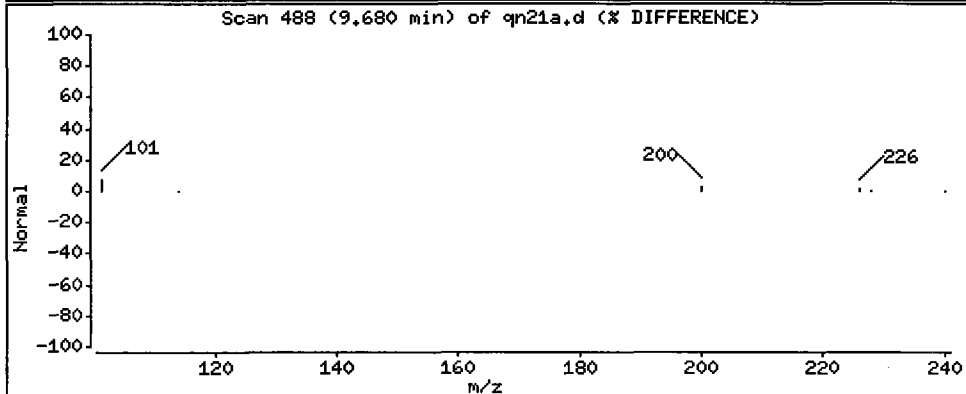
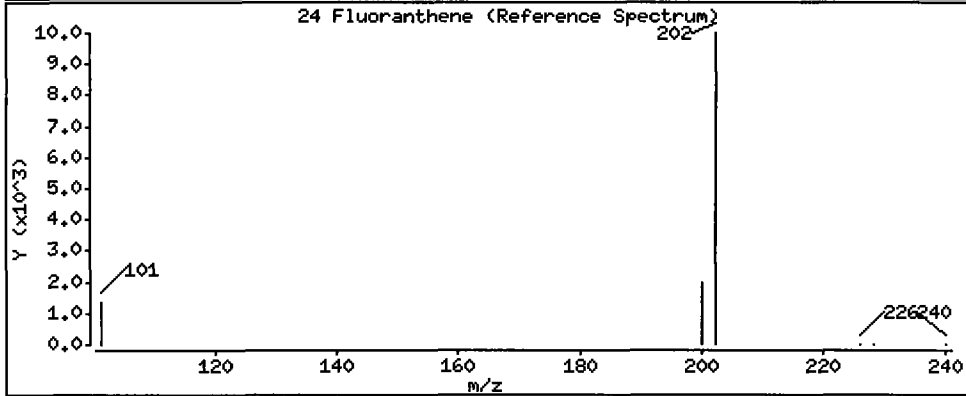
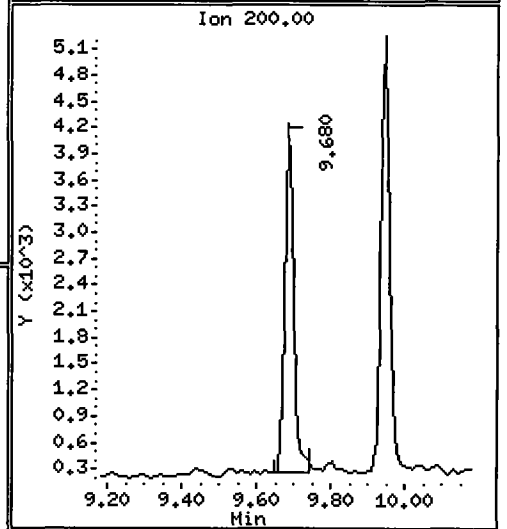
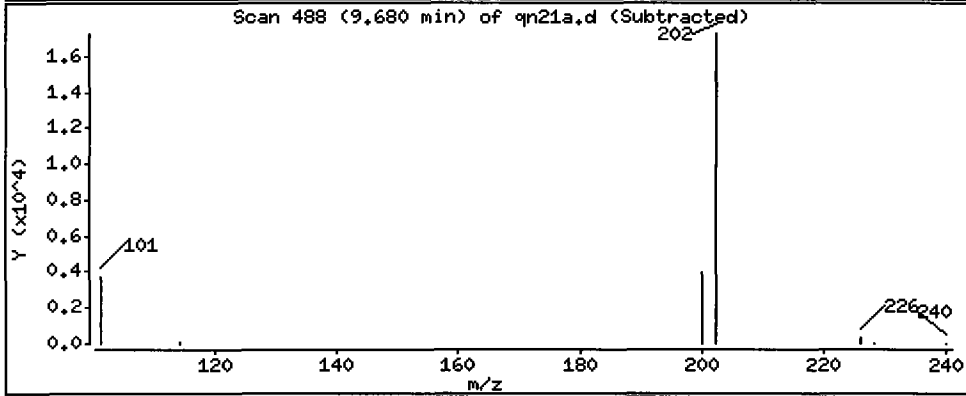
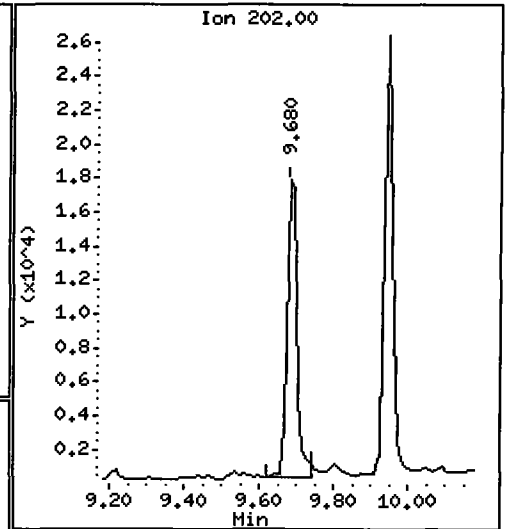
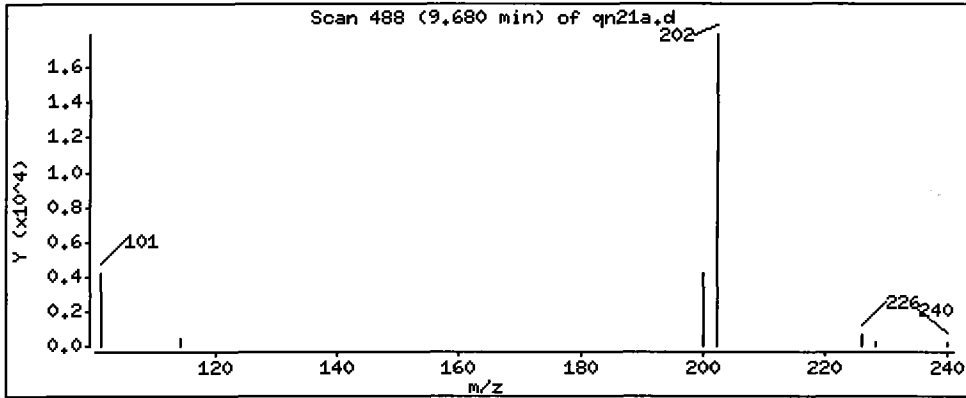
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

24 Fluoranthene

Concentration: 33.4 ug/L



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

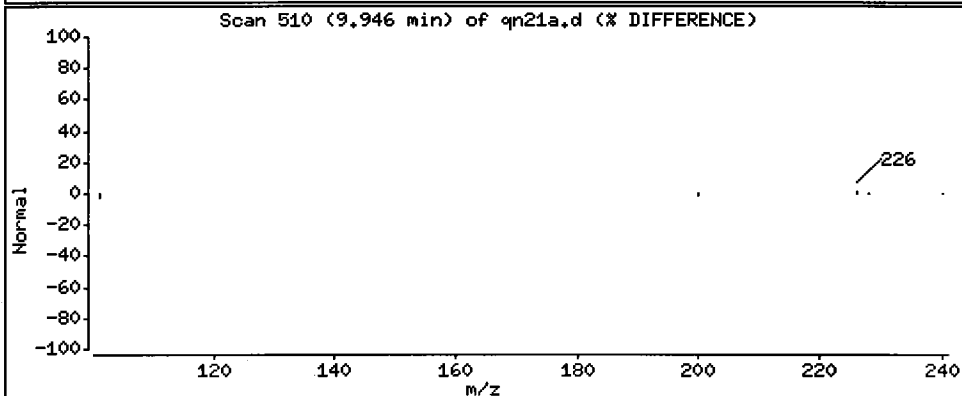
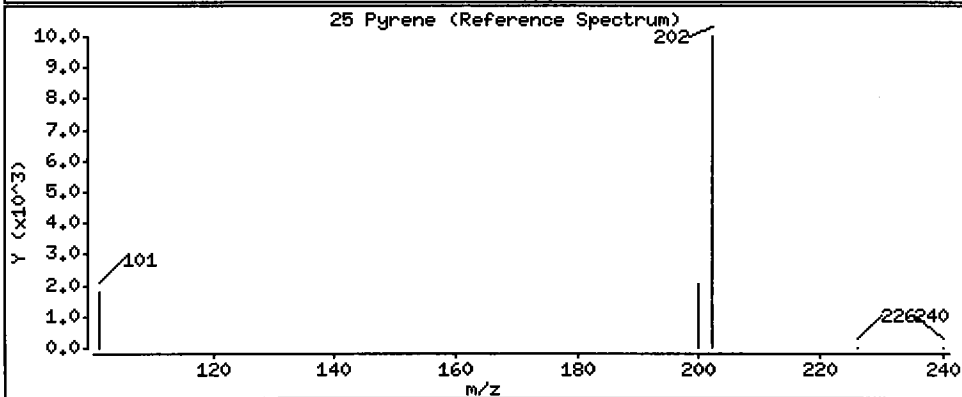
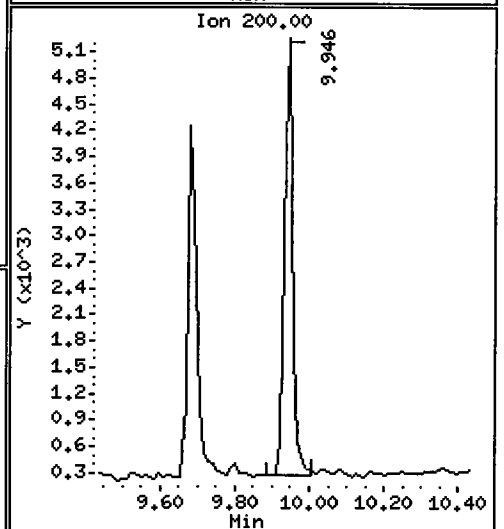
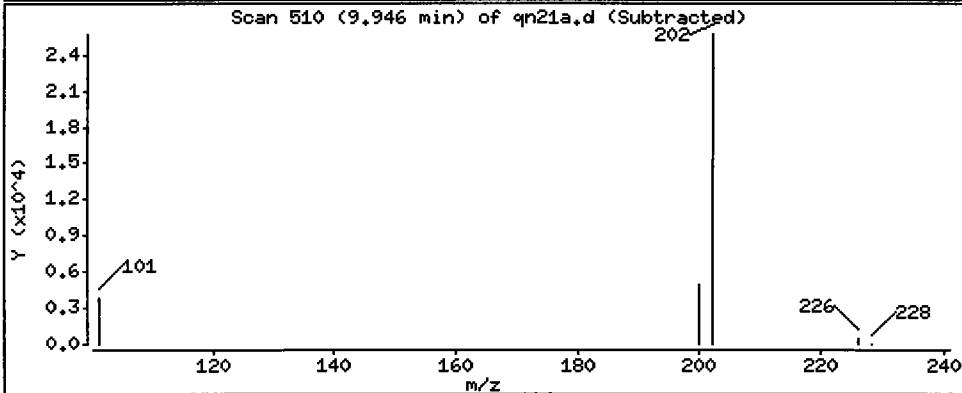
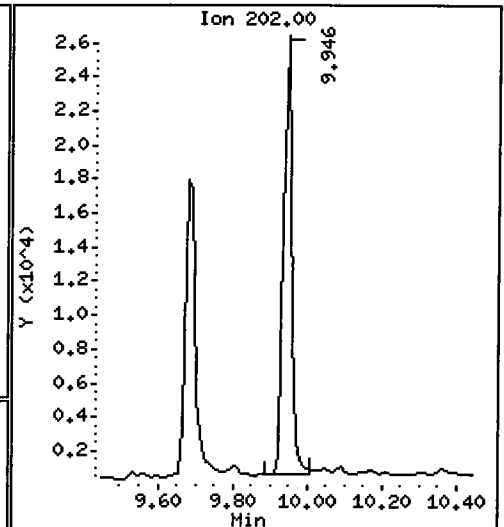
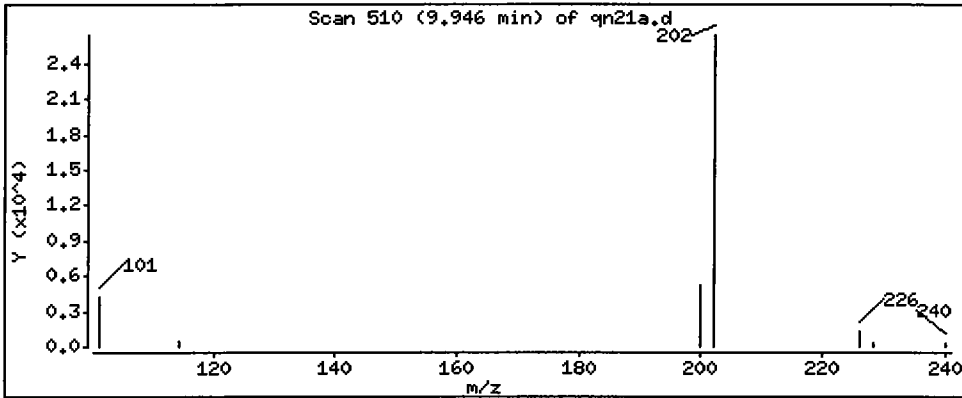
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

25 Pyrene

Concentration: 38.0 ug/L



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

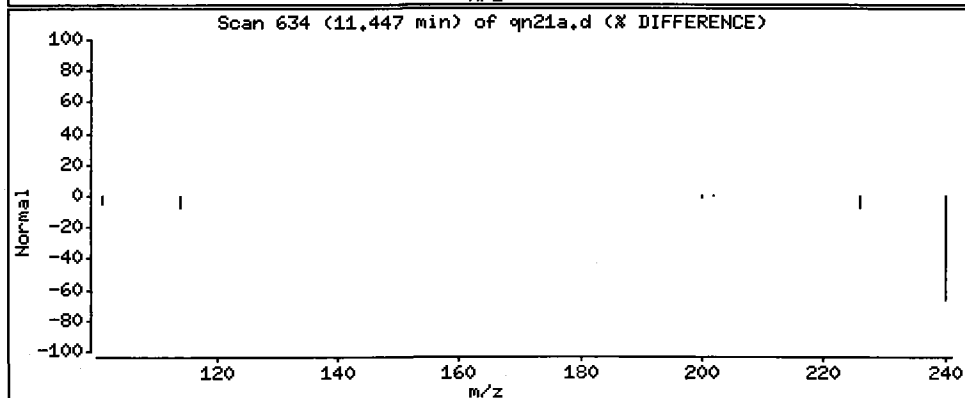
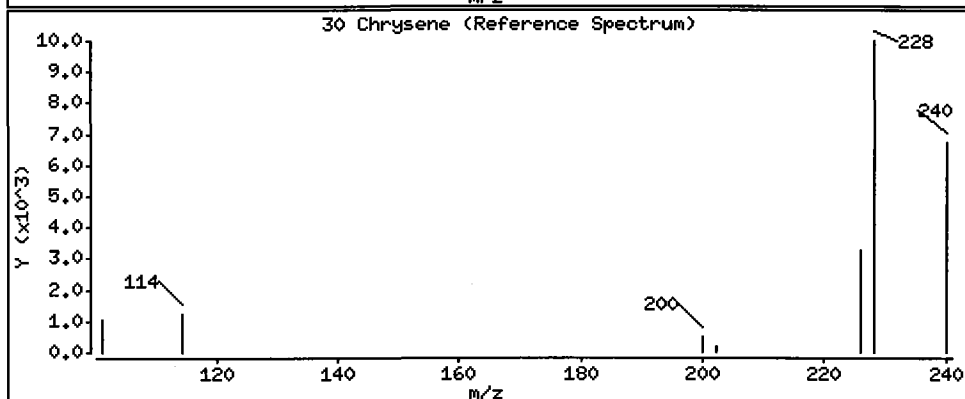
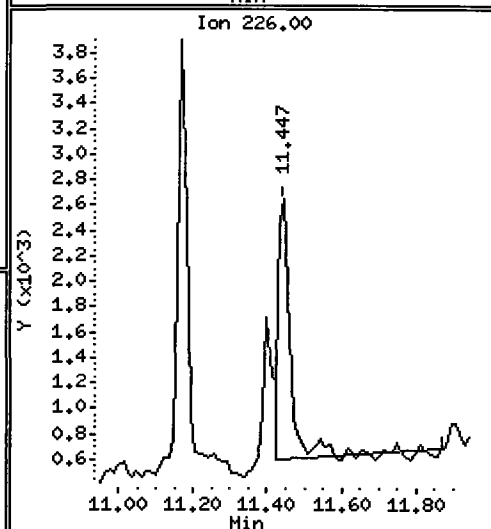
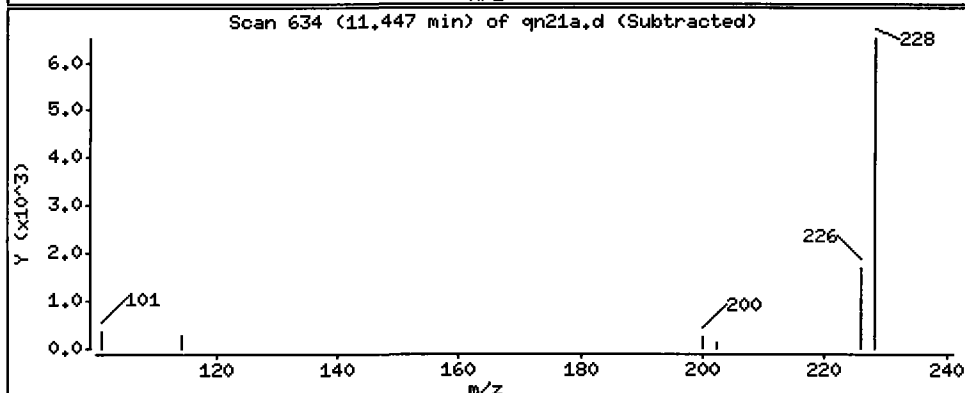
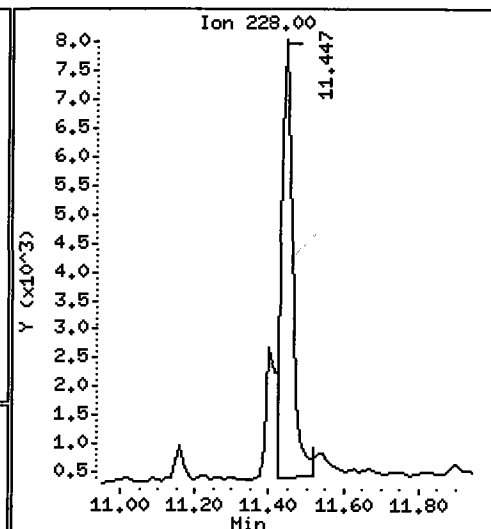
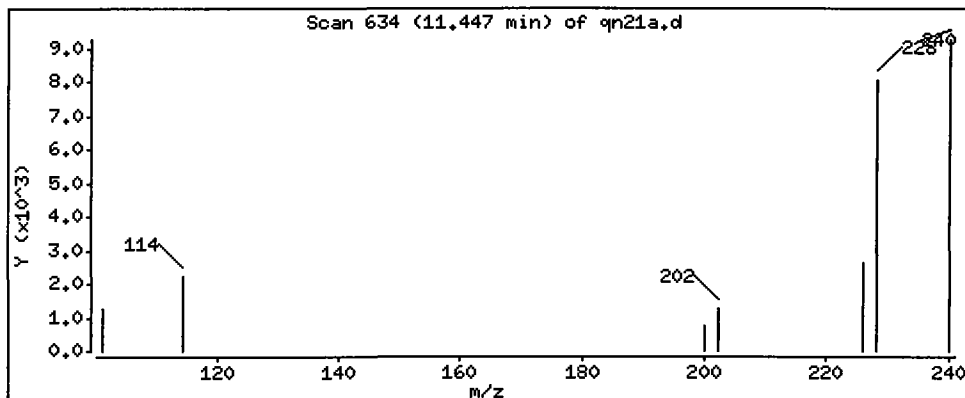
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

30 Chrysene

Concentration: 15.0 ug/L



Date : 22-MAR-2010 19:34

Client ID: CB31A031010COMP

Instrument: nt8.i

Sample Info: QN21A

Volume Injected (uL): 2.0

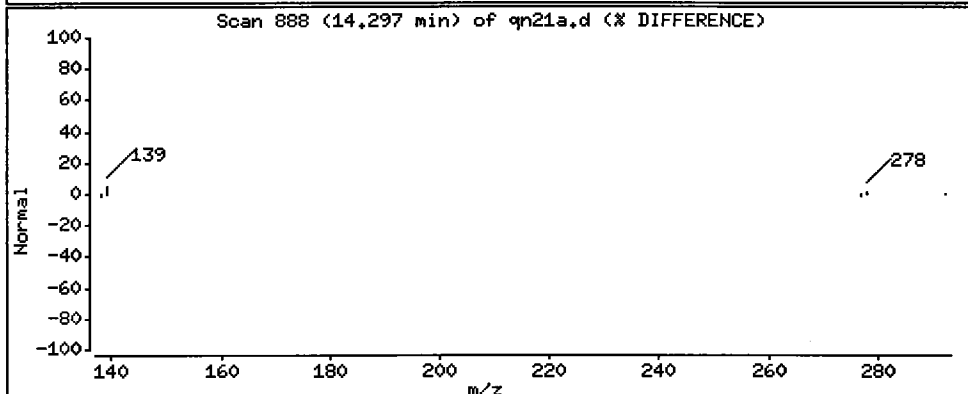
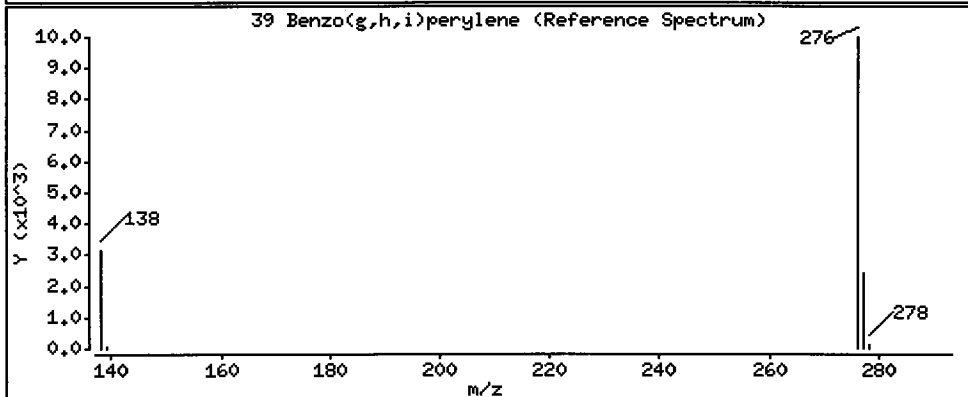
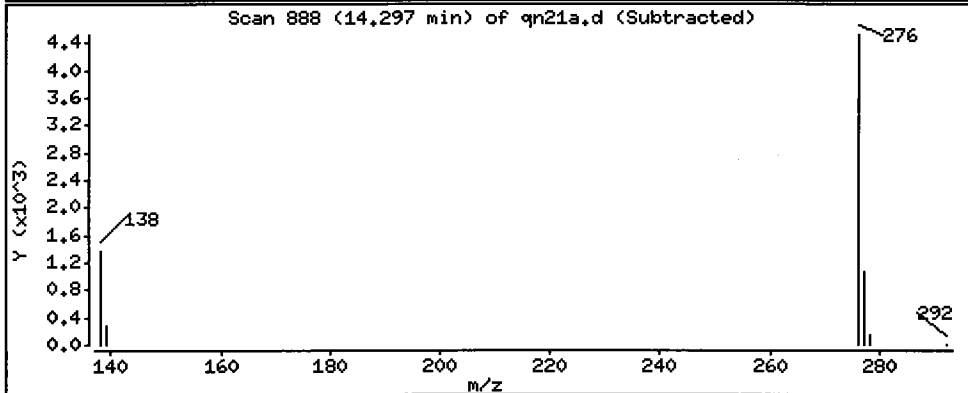
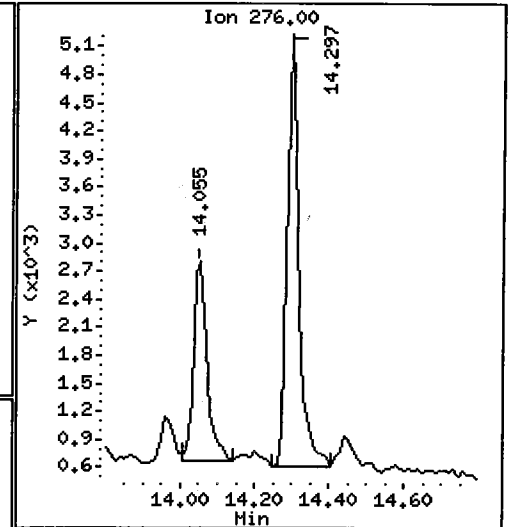
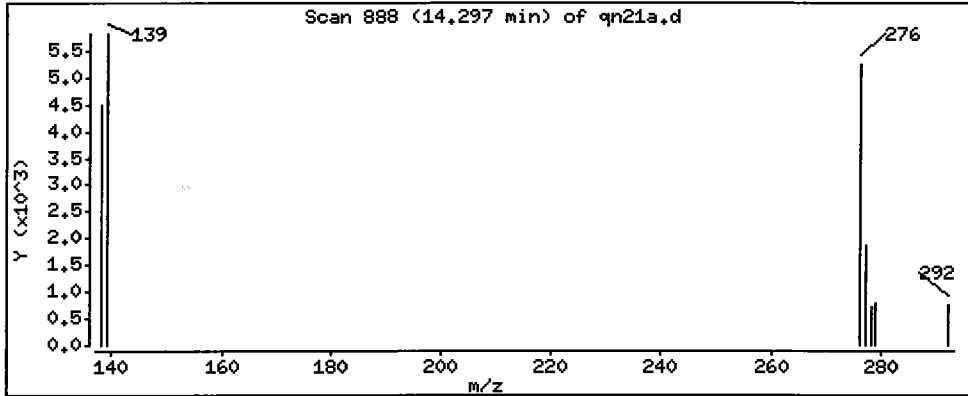
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

39 Benzo(g,h,i)perylene

Concentration: 11.5 ug/L



ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: CB4857031010COMP

SAMPLE

Lab Sample ID: QN21B

LIMS ID: 10-5975

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 20:45

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-----------------|------------------------|--------------|----------------|
| 91-20-3 | Naphthalene | 0.010 | 0.015 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.017 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.022 |
| 129-00-0 | Pyrene | 0.010 | 0.023 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | 0.014 |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in $\mu\text{g/L}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.7%
d14-Dibenzo(a,h)anthracene 42.0%

Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21b.d
 Lab Smp Id: QN21B Client Smp ID: CB4857031010COMP
 Inj Date : 22-MAR-2010 20:45
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21B
 Misc Info : 10-5975
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|------|------------------------|--------|---------|----------|----------------------|-----------------|
| | | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| * 4 Naphthalene-d8 | | 136 | 4.742 | 4.742 | (1.000) | 208367 | 200.000 | |
| 5 Naphthalene | | 128 | 4.763 | 4.753 | (1.004) | 17313 | 14.6948 | <i>B</i> 14.7 |
| \$ 6 2-Methylnaphthalene-d10 | | 152 | 5.408 | 5.408 | (1.140) | 118626 | 181.996 | 182 |
| 7 2-Methylnaphthalene | | 142 | 5.440 | 5.440 | (1.147) | 4059 | 5.68426 | <i>J</i> 5.68 |
| 8 1-Methylnaphthalene | | 142 | Compound Not Detected. | | | | | |
| 10 Acenaphthylene | | 152 | Compound Not Detected. | | | | | |
| * 11 Acenaphthene-d10 | | 164 | 6.561 | 6.561 | (1.000) | 113388 | 200.000 | |
| 12 Acenaphthene | | 153 | Compound Not Detected. | | | | | |
| 14 Dibenzofuran | | 168 | Compound Not Detected. | | | | | |
| 15 Fluorene | | 166 | Compound Not Detected. | | | | | |
| * 18 Phenanthrene-d10 | | 188 | 8.241 | 8.241 | (1.000) | 168281 | 200.000 | |
| 19 Phenanthrene | | 178 | 8.265 | 8.265 | (1.003) | 16616 | 17.3599 | 17.4 |
| 20 Anthracene | | 178 | Compound Not Detected. | | | | | |
| 24 Fluoranthene | | 202 | 9.680 | 9.680 | (1.175) | 21000 | 21.5397 | 21.5 |
| 25 Pyrene | | 202 | 9.946 | 9.946 | (1.207) | 23129 | 22.9639 | 23.0 |
| 28 Benzo(a)anthracene | | 228 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-----------------------|------------------|--|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) | |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 116414 | 200.000 | (M) | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.002) | 13713 | 13.5522 | 13.6(M) | |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 19508 | Σ 22.5249 <i>9.69</i> | 22.5 <i>J</i> | |
| 33 Benzo(k)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 19326 | Σ 16.2280 <i>9.69</i> | 16.2(M) <i>J</i> | |
| 34 Benzo(a)pyrene | 252 | Compound Not Detected. | | | | | | |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 112899 | 200.000 | | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | Compound Not Detected. | | | | | | |
| § 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.078) | 72666 | 126.125 | 126 | |
| 38 Dibenzo(a,h)anthracene | 278 | Compound Not Detected. | | | | | | |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.098) | 4402 | 5.05635 <i>J</i> | 5.06 | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21b.d
 Lab Smp Id: QN21B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5975

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB4857031010COMI
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

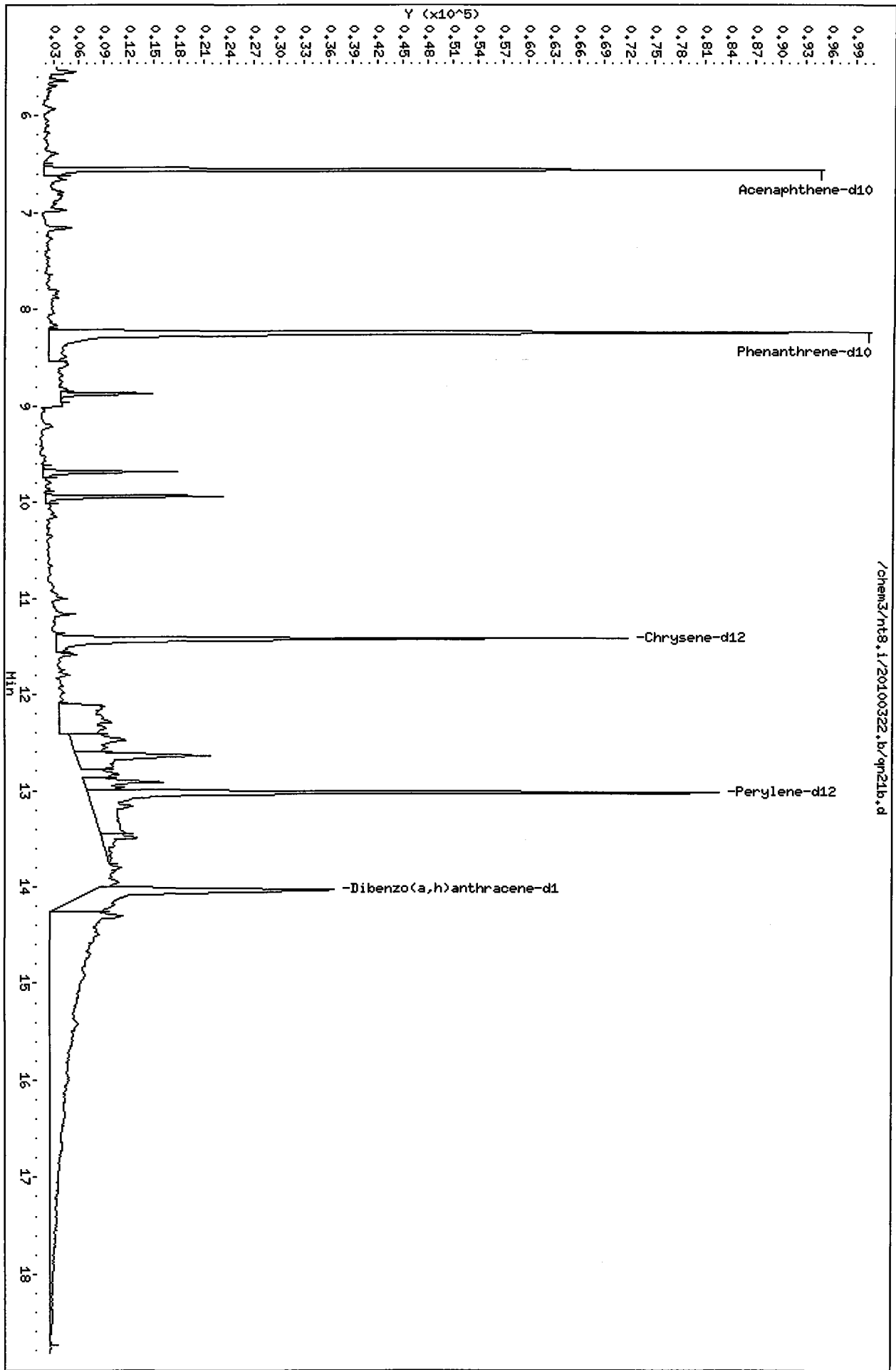
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 208367 | -4.77 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 113388 | -5.07 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 168281 | -8.28 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 116414 | -4.32 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 112899 | 10.47 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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/nt8.1/20100322.b/qn21b.d
Date : 22-MAR-2010 20:45
Client ID: CB48570310100CMP
Sample Info: QN21B
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.1
Operator: VTS
Column diameter: 0.25



QN21 : 00098

Date : 22-MAR-2010 20:45

Client ID: CB4857031010COMP

Instrument: nt8.i

Sample Info: QN21B

Volume Injected (uL): 2.0

Operator: VTS

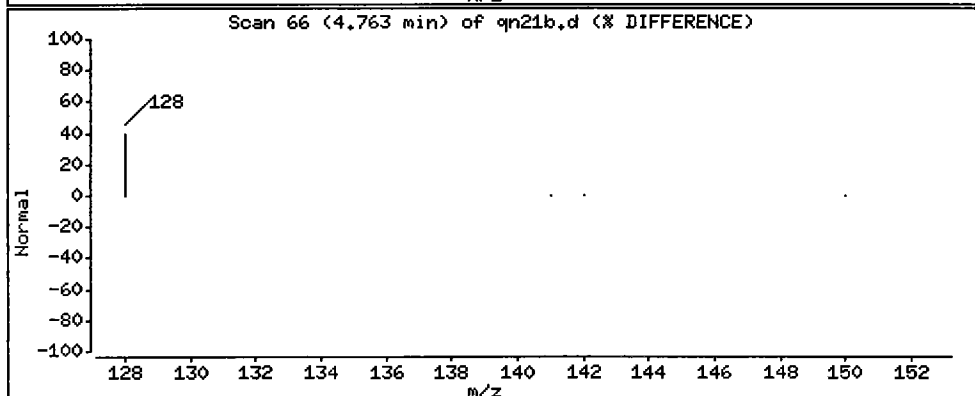
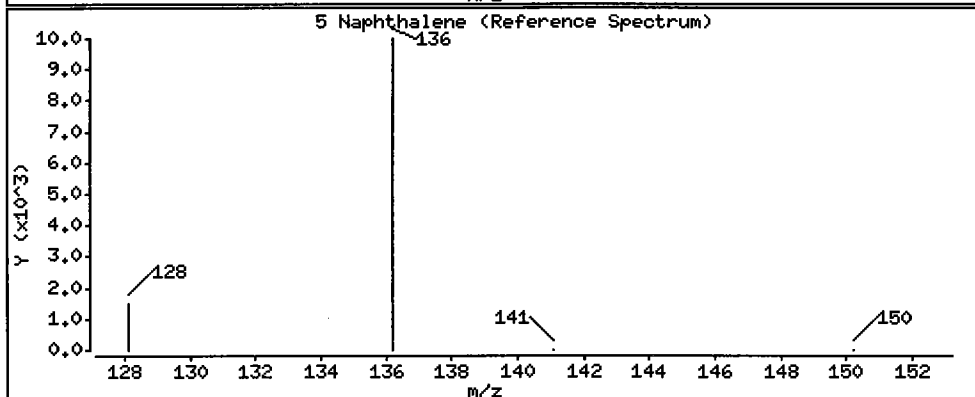
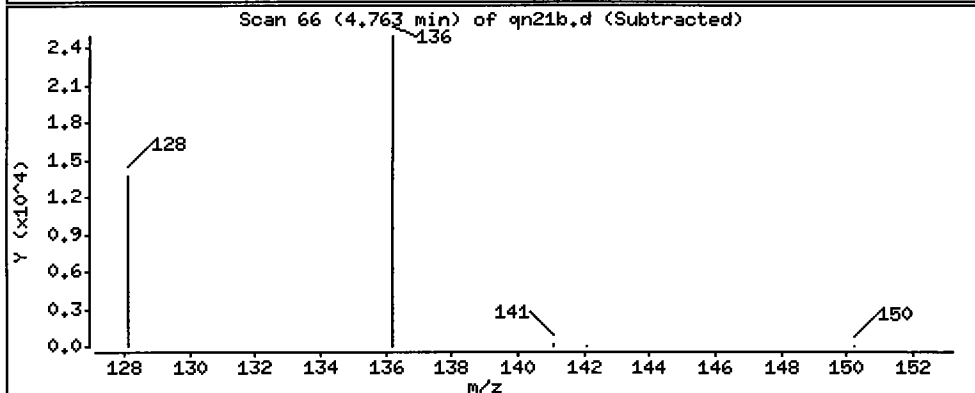
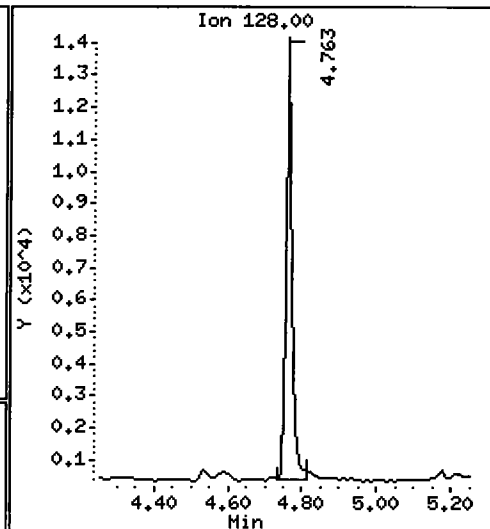
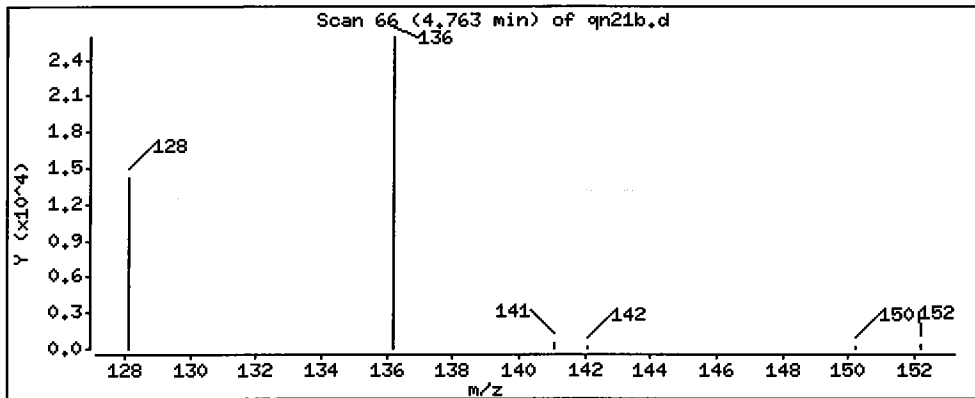
Column phase: ZB-5

Column diameter: 0.25

5 Naphthalene

Concentration: 14.7 ug/L

B



Date : 22-MAR-2010 20:45

Client ID: CB4857031010COMP

Instrument: nt8.i

Sample Info: QN21B

Volume Injected (uL): 2.0

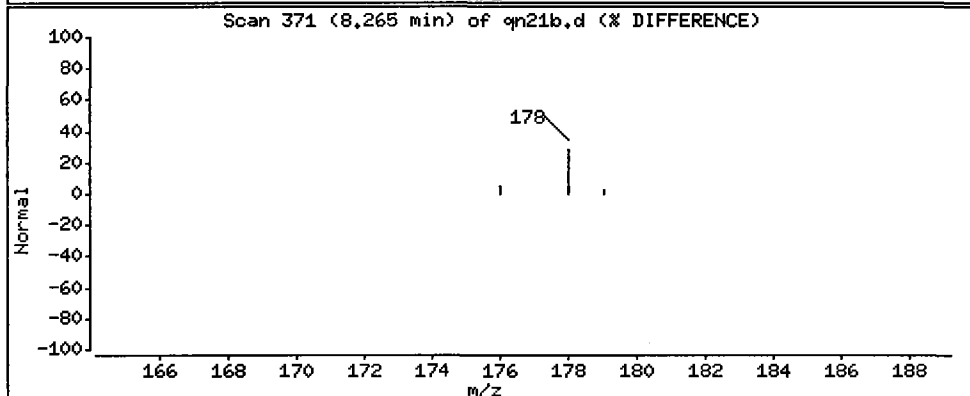
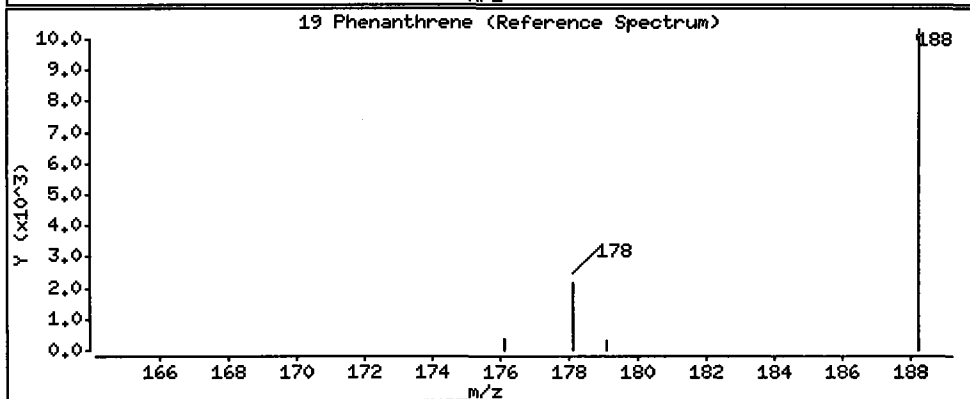
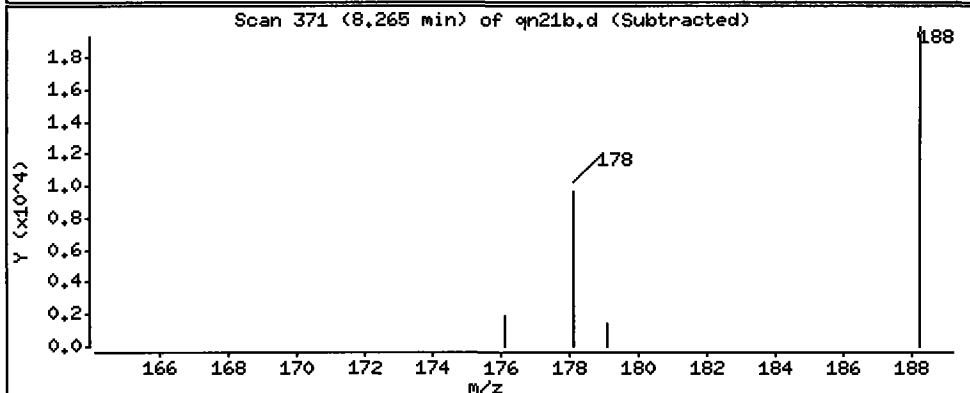
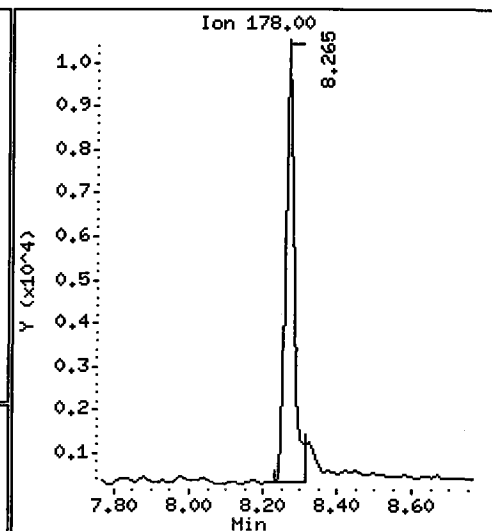
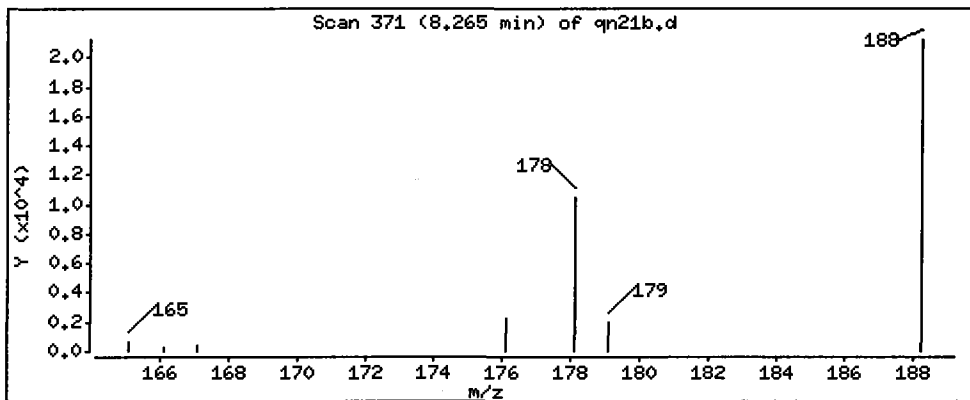
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

19 Phenanthrene

Concentration: 17.4 ug/L



Date : 22-MAR-2010 20:45

Client ID: CB4857031010COMP

Instrument: nt8.i

Sample Info: QN21B

Volume Injected (uL): 2.0

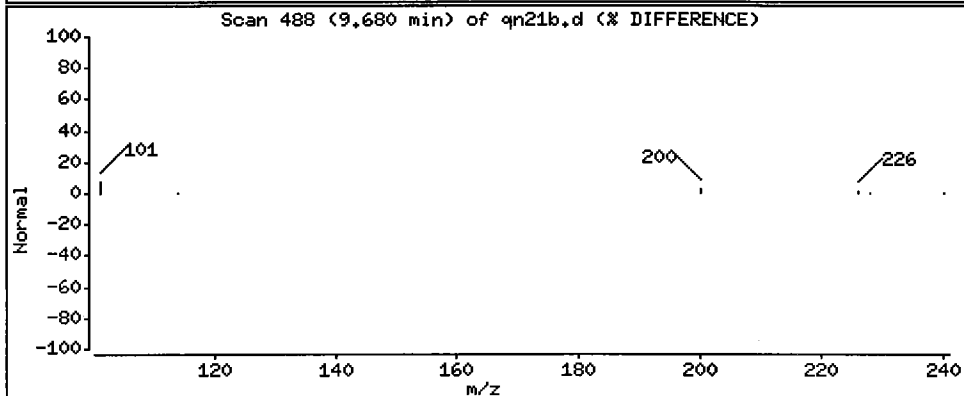
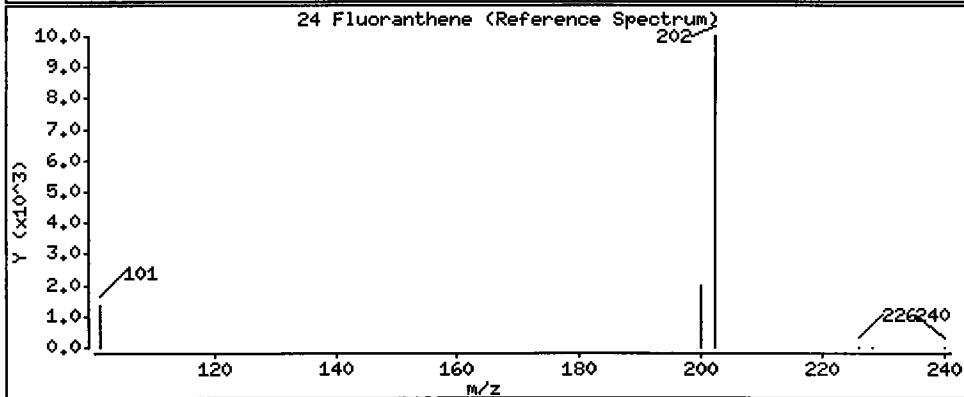
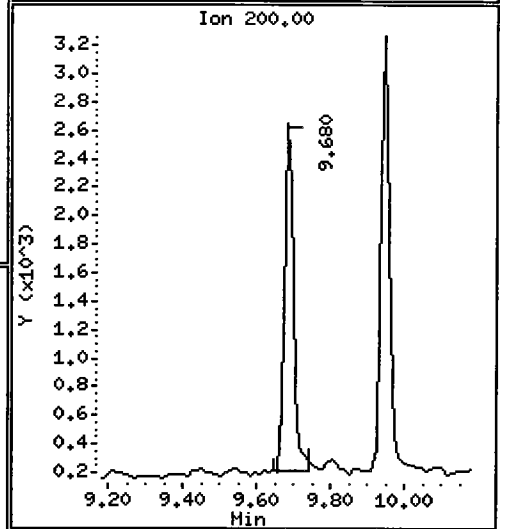
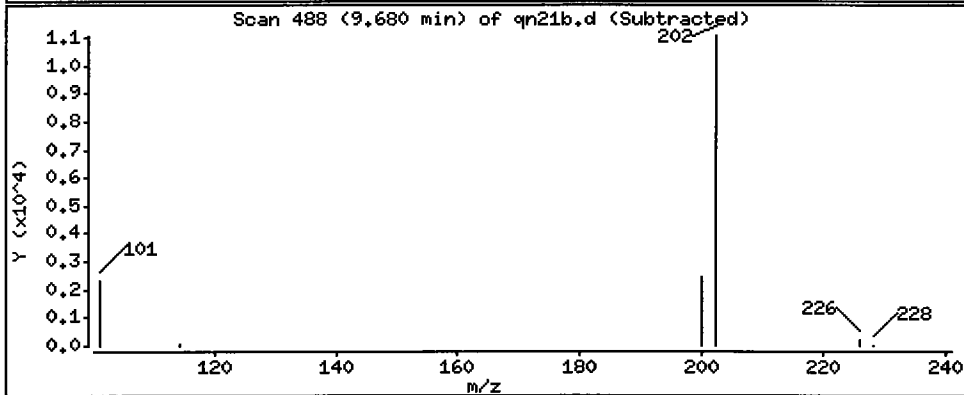
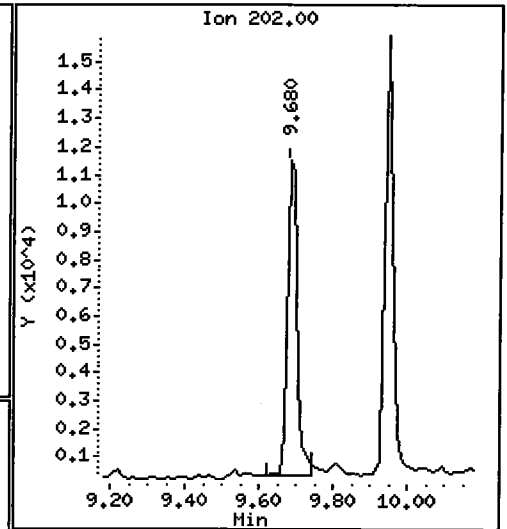
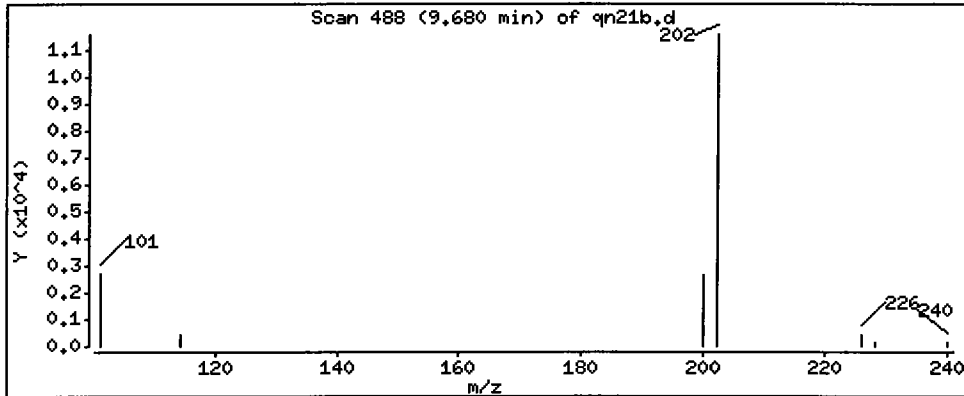
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

24 Fluoranthene

Concentration: 21.5 ug/L



Date : 22-MAR-2010 20:45

Client ID: CB4857031010COMP

Instrument: nt8.i

Sample Info: QN21B

Volume Injected (uL): 2.0

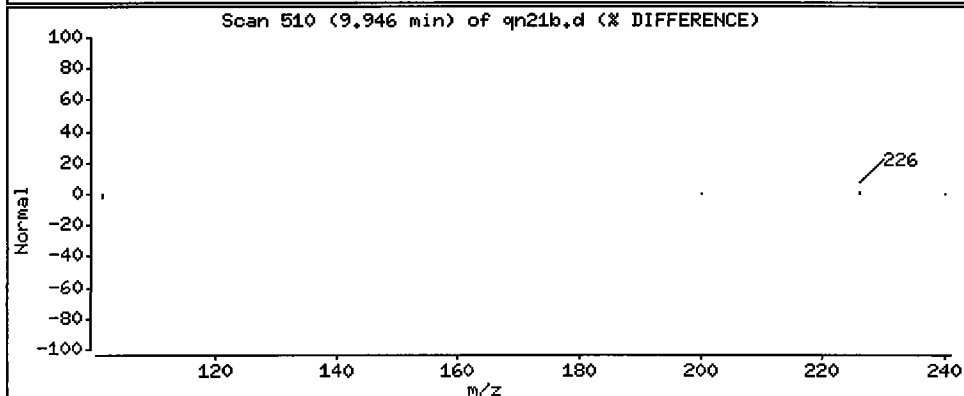
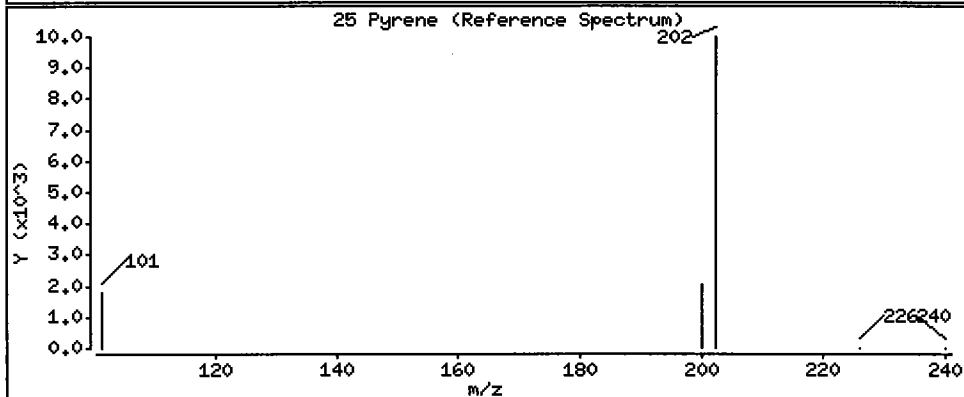
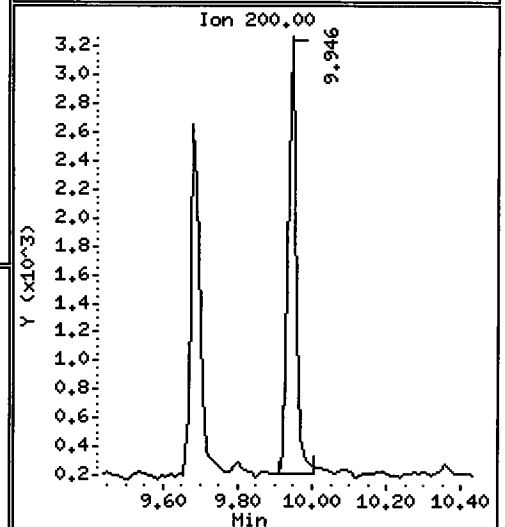
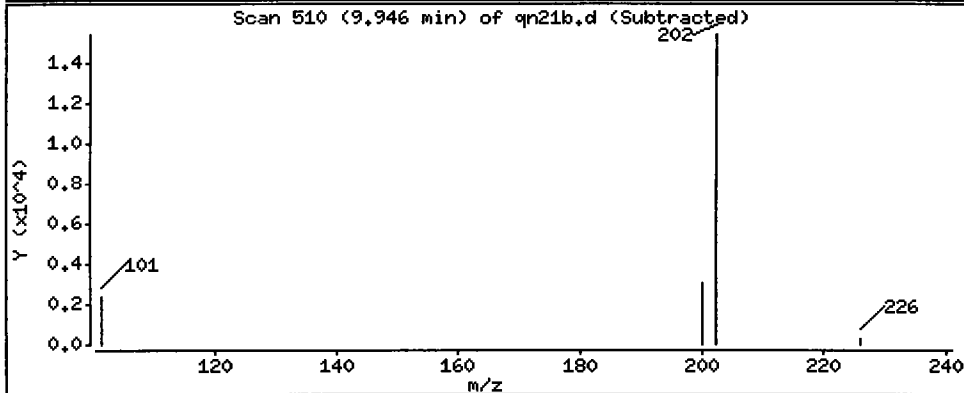
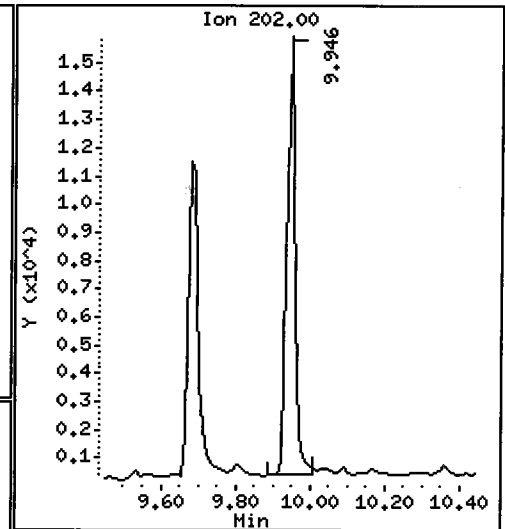
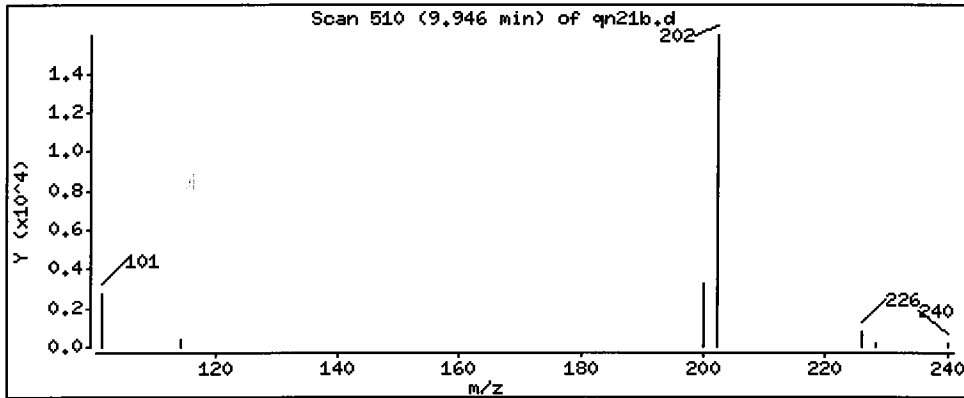
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

25 Pyrene

Concentration: 23.0 ug/L



Date : 22-MAR-2010 20:45

Client ID: CB4857031010COMP

Instrument: nt8.i

Sample Info: QN21B

Volume Injected (uL): 2.0

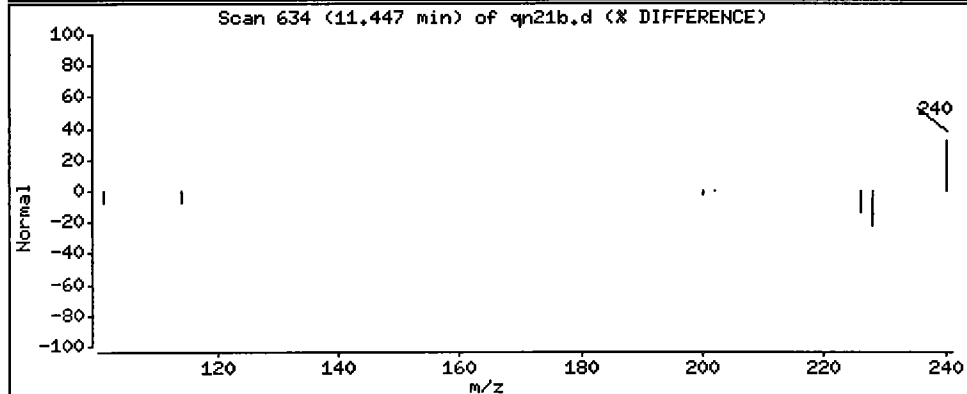
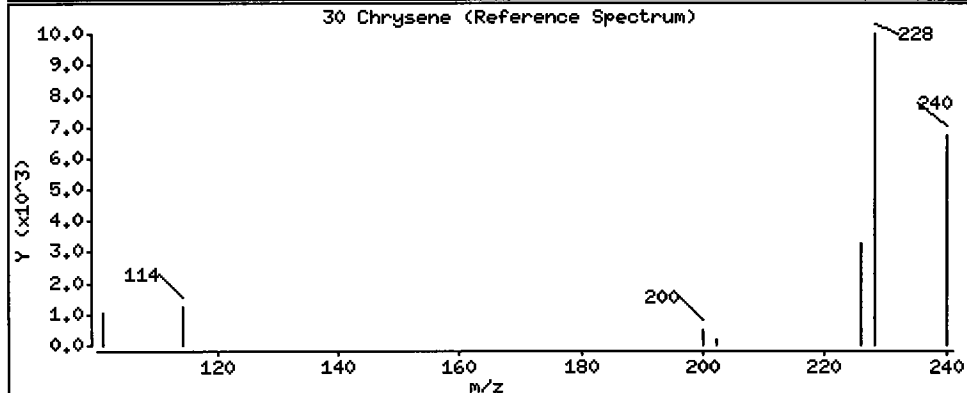
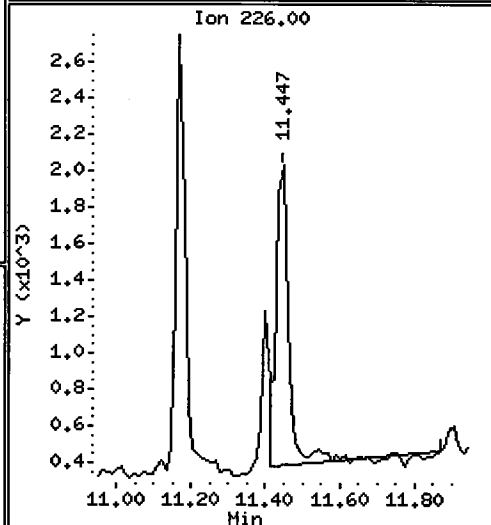
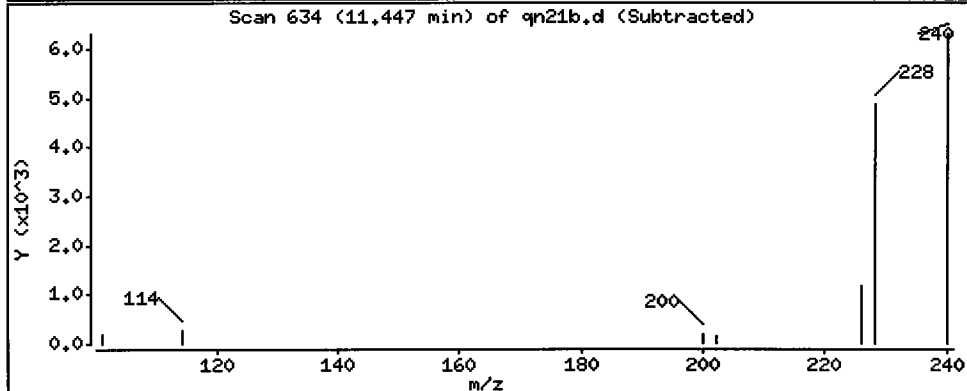
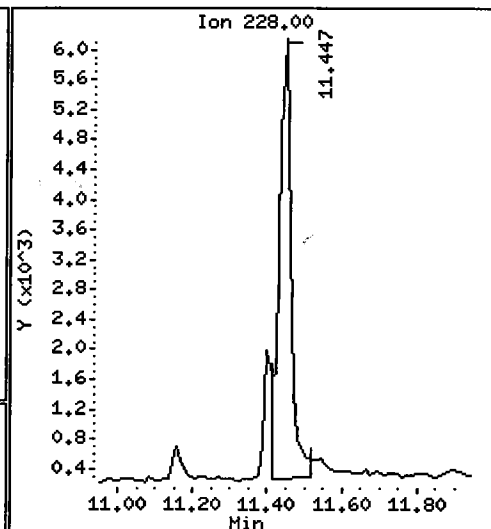
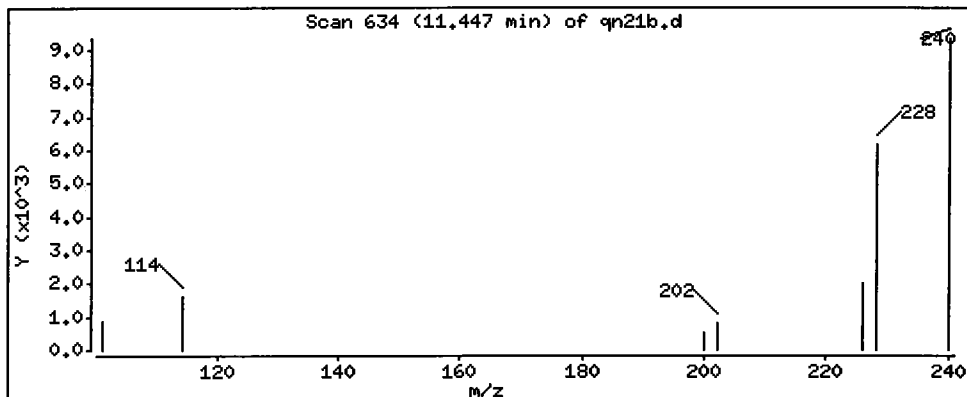
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

30 Chrysene

Concentration: 13.6 ug/L



ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS


Page 1 of 1

Sample ID: CB1031010COMP
SAMPLE

Lab Sample ID: QN21C

LIMS ID: 10-5976

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 21:08

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|--------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.012 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.013 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | < 0.010 U |
| 129-00-0 | Pyrene | 0.010 | < 0.010 U |
| 56-55-3 | Benzo (a) anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo (b) fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo (k) fluoranthene | 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 |
| 191-24-2 | Benzo (g,h,i) perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 61.3%
d14-Dibenzo (a,h) anthracene 53.3%

Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21c.d
 Lab Smp Id: QN21C Client Smp ID: CB1031010COMP
 Inj Date : 22-MAR-2010 21:08
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21C
 Misc Info : 10-5976
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 208147 | 200.000 | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 14248 | 12.1061 <i>B</i> | 12.1 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 119938 | 184.204 | 184 |
| 7 2-Methylnaphthalene | 142 | 5.439 | 5.440 | (1.147) | 3699 | 5.18559 <i>J</i> | 5.19 |
| 8 1-Methylnaphthalene | 142 | Compound Not Detected. | | | | | |
| 10 Acenaphthylene | 152 | Compound Not Detected. | | | | | |
| * 11 Acenaphthene-d10 | 164 | 6.560 | 6.561 | (1.000) | 113668 | 200.000 | |
| 12 Acenaphthene | 153 | Compound Not Detected. | | | | | |
| 14 Dibenzofuran | 168 | Compound Not Detected. | | | | | |
| 15 Fluorene | 166 | Compound Not Detected. | | | | | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 172296 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 12449 | 12.7033 <i>✓</i> | 12.7 |
| 20 Anthracene | 178 | Compound Not Detected. | | | | | |
| 24 Fluoranthene | 202 | 9.692 | 9.680 | (1.176) | 6731 | 6.74309 <i>J</i> | 6.74 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 5429 | 5.26463 <i>J</i> | 5.26 |
| 28 Benzo(a)anthracene | 228 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|-----------------------------------|-----------|------------------------|-------------------|--------------------|----------|--------------------|-----------------|--|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) | |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 124177 | 200.000 | | |
| 30 Chrysene | 228 | Compound Not Detected. | | | | | | |
| 32 Benzo (b) fluoranthene | 252 | 12.645 | 12.655 | (0.970) | 5140 | 5.92619 | 5.93 | |
| 33 Benzo (k) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 34 Benzo (a) pyrene | 252 | Compound Not Detected. | | | | | | |
| * 35 Perylene-d12 | 264 | 13.030 | 13.020 | (1.000) | 113065 | 200.000 | | |
| 37 Indeno (1,2,3-cd) pyrene | 276 | Compound Not Detected. | | | | | | |
| § 36 Dibenzo (a,h) anthracene-d14 | 292 | 14.043 | 14.043 | (1.078) | 92292 | 159.954 | 160 | |
| 38 Dibenzo (a,h) anthracene | 278 | Compound Not Detected. | | | | | | |
| 39 Benzo (g,h,i) perylene | 276 | Compound Not Detected. | | | | | | |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21c.d
 Lab Smp Id: QN21C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5976

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB1031010COMP
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

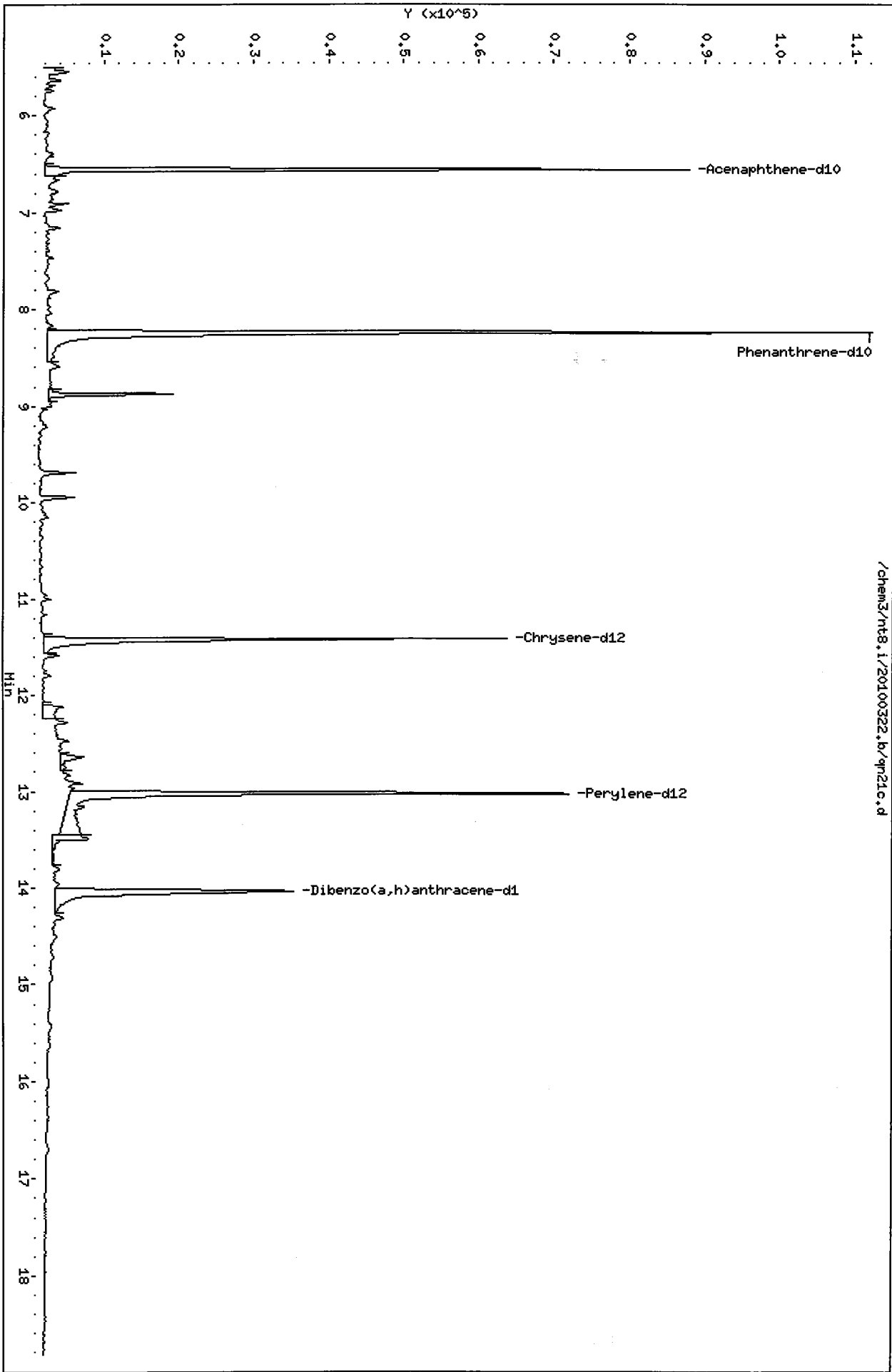
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 208147 | -4.87 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 113668 | -4.83 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 172296 | -6.09 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 124177 | 2.06 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 113065 | 10.63 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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/nt8.i/20100322.b/qn21c.d
Date : 22-MAR-2010 21:08
Client ID: CB103101000MP
Sample Info: QN21C
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25



/chem3/nt8.i/20100322.b/qn21c.d

Date : 22-MAR-2010 21:08

Client ID: CB1031010COMP

Instrument: nt8.i

Sample Info: QN21C

Volume Injected (uL): 2.0

Operator: VTS

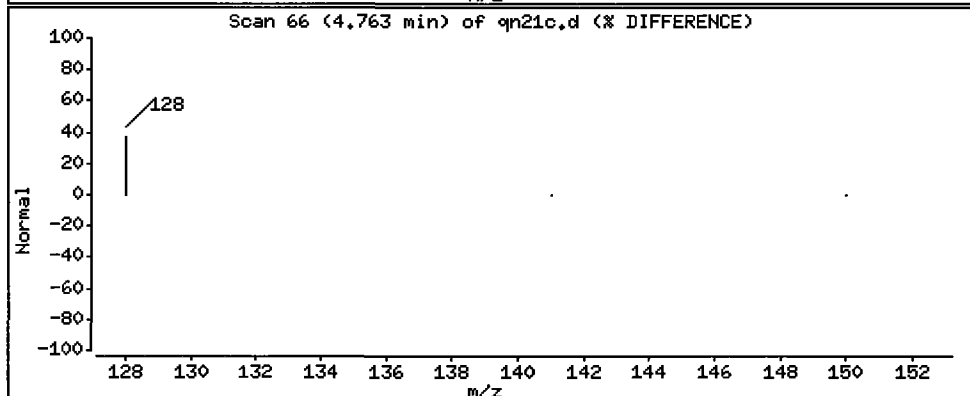
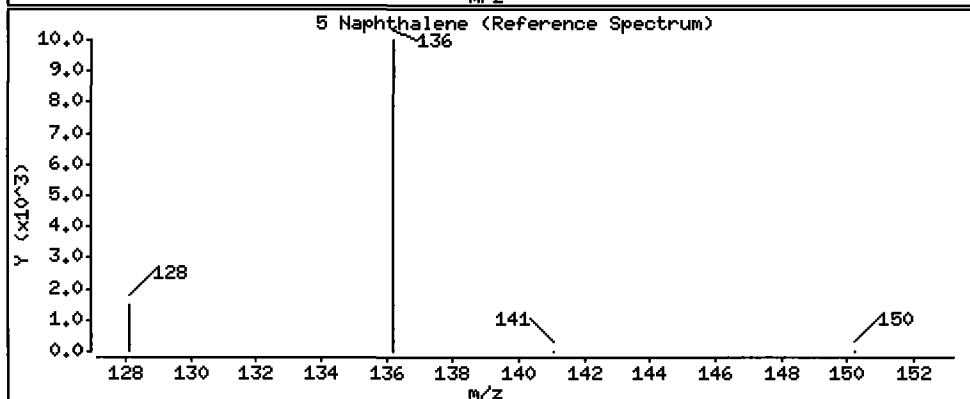
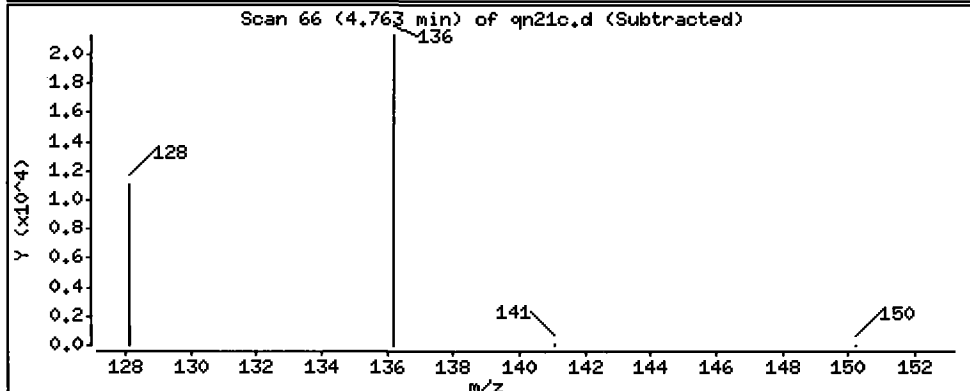
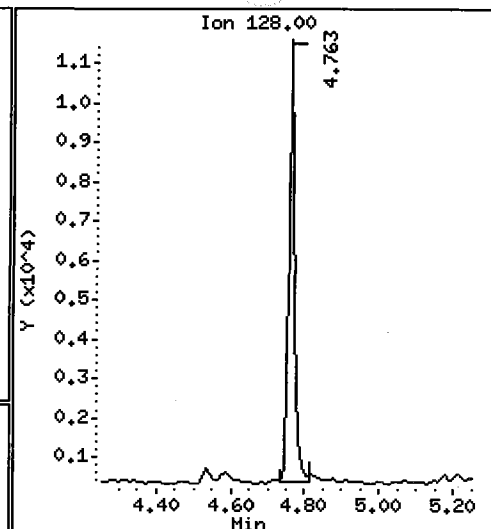
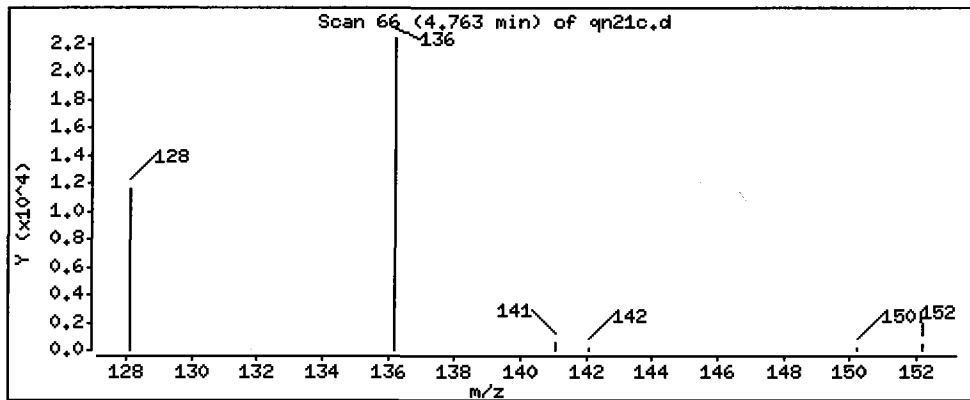
Column phase: ZB-5

Column diameter: 0.25

5 Naphthalene

Concentration: 12.1 ug/L

B



Date : 22-MAR-2010 21:08

Client ID: CB1031010COMP

Instrument: nt8.i

Sample Info: QN21C

Volume Injected (uL): 2.0

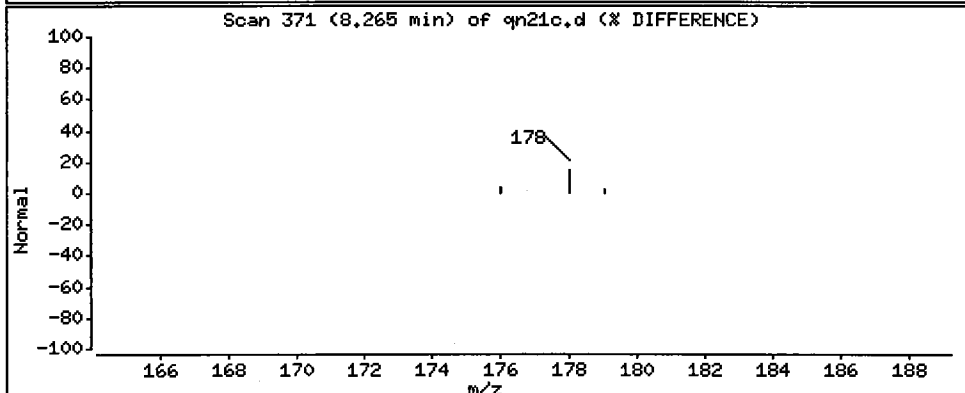
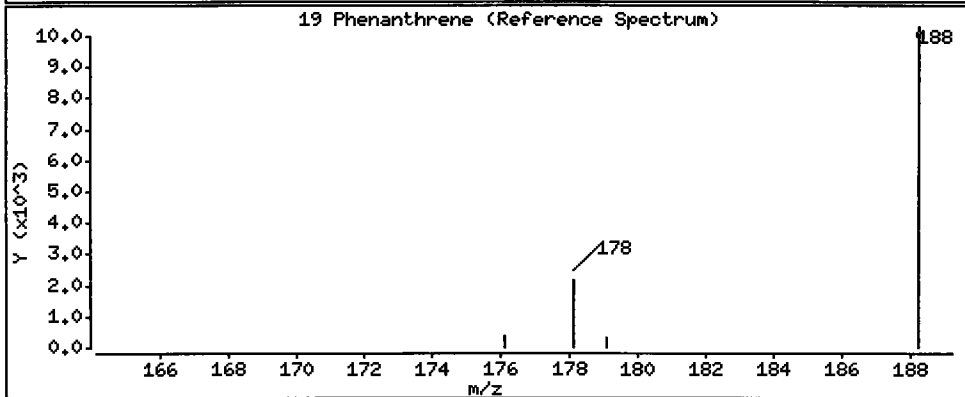
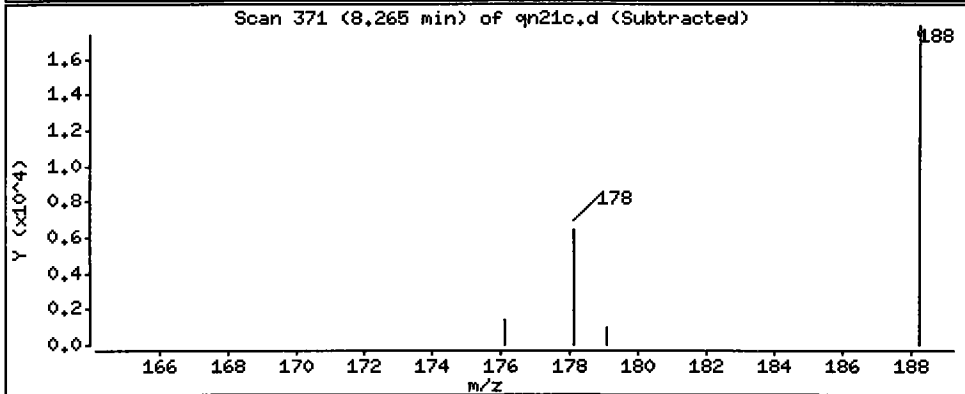
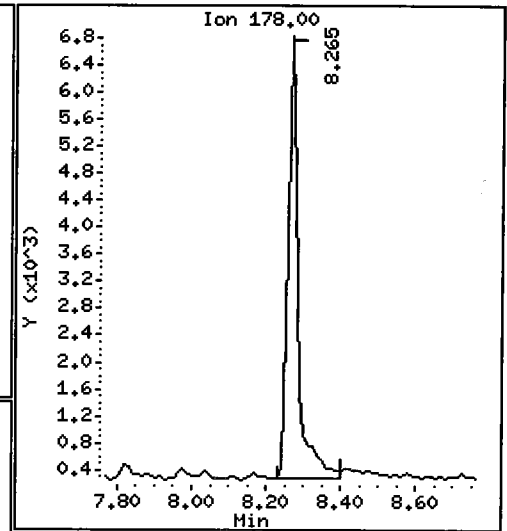
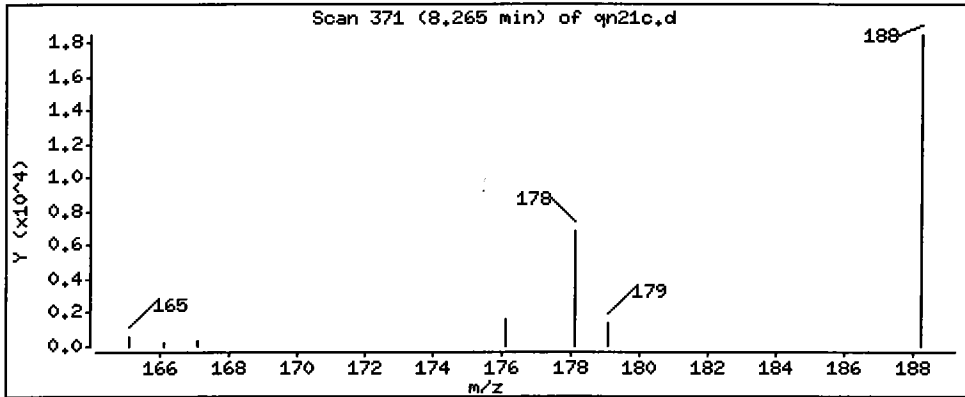
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

19 Phenanthrene

Concentration: 12.7 ug/L



ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: CB101031010COMP

SAMPLE

Lab Sample ID: QN21D

LIMS ID: 10-5977

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 21:32

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-----------------|------------------------|--------------|----------------|
| 91-20-3 | Naphthalene | 0.010 | 0.011 B |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | 0.016 |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | 0.017 |
| 129-00-0 | Pyrene | 0.010 | 0.020 |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in $\mu\text{g/L}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.7%
d14-Dibenzo(a,h)anthracene 41.7%

YZ 3/24/10

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21d.d
 Lab Smp Id: QN21D Client Smp ID: CB101031010COMP
 Inj Date : 22-MAR-2010 21:32
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21D
 Misc Info : 10-5977
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 214012 | 200.000 | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 13325 | 11.0116 <i>B</i> | 11.0 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 108051 | 161.399 <i>J</i> | 161 |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 | (1.147) | 4541 | 6.19152 <i>J</i> | 6.19 |
| 8 1-Methylnaphthalene | 142 | Compound Not Detected. | | | | | |
| 10 Acenaphthylene | 152 | Compound Not Detected. | | | | | |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 113375 | 200.000 | |
| 12 Acenaphthene | 153 | Compound Not Detected. | | | | | |
| 14 Dibenzofuran | 168 | Compound Not Detected. | | | | | |
| 15 Fluorene | 166 | Compound Not Detected. | | | | | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 169776 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 15513 | 16.0648 <i>✓</i> | 16.1 (M) |
| 20 Anthracene | 178 | Compound Not Detected. | | | | | |
| 24 Fluoranthene | 202 | 9.692 | 9.680 | (1.176) | 16612 | 16.8889 <i>✓</i> | 16.9 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 20602 | 20.2748 <i>✓</i> | 20.3 |
| 28 Benzo(a)anthracene | 228 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|------------------------------------|-------------------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) | |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 116373 | 200.000 | (M) | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 8541 | 8.44381 | 8.44 | |
| 32 Benzo (b) fluoranthene | 252 | 12.645 | 12.655 | (0.971) | 7144 | 8.06244 | 8.06 | |
| 33 Benzo (k) fluoranthene | 252 | 12.645 | 12.655 | (0.971) | 7144 | 5.86325 | 5.86 | |
| 34 Benzo (a) pyrene | 252 | Compound Not Detected. | | | | | | |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 115509 | 200.000 | | |
| 37 Indeno (1,2,3-cd) pyrene | 276 | Compound Not Detected. | | | | | | |
| \$ 36 Dibenzo (a,h) anthracene-d14 | 292 | 14.031 | 14.043 | (1.078) | 73881 | 125.336 | 125 | |
| 38 Dibenzo (a,h) anthracene | 278 | Compound Not Detected. | | | | | | |
| 39 Benzo (g,h,i) perylene | 276 | Compound Not Detected. | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21d.d
 Lab Smp Id: QN21D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5977

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB101031010COMP
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 214012 | -2.19 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 113375 | -5.08 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 169776 | -7.47 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 116373 | -4.35 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 115509 | 13.03 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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: QN21D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pnalnm.sub
Method File: /chem3/nt8.i/20100322.b/lowsim.m
Misc Info: 10-5977

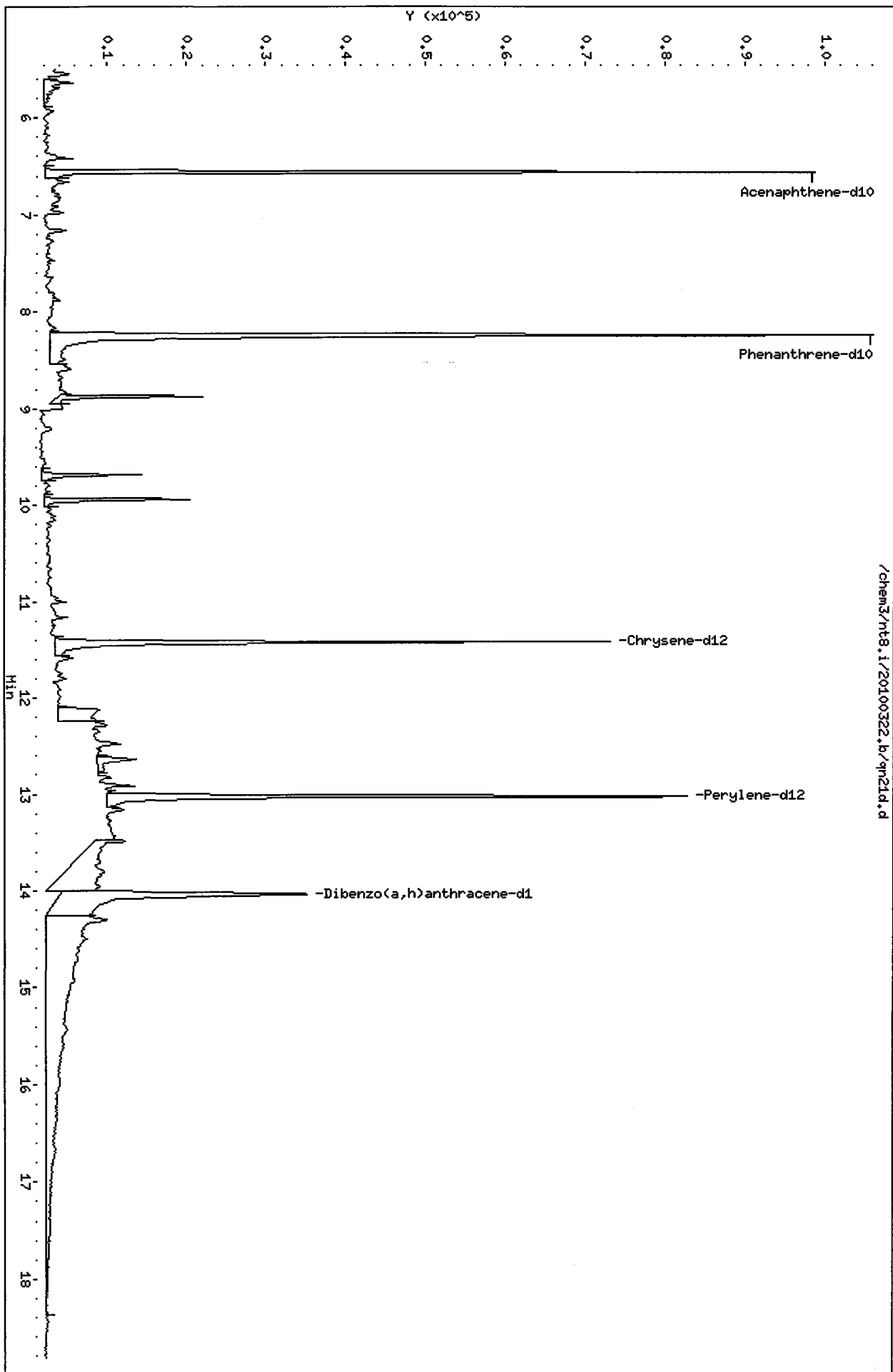
Client SDG: QN21
Fraction: SV
Client Smp ID: CB101031010COMP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 6 2-Methylnaphthalen | 300 | 161 | 53.80 | 31-109 |
| \$ 36 Dibenzo(a,h) anthra | 300 | 125 | 41.78 | 10-133 |

Data File: /chem3/nt8.i/20100322.b/qn21d.d
Date: 22-MAR-2010 21:32
Client ID: CB101031010COMP
Sample Info: QN21D
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25

/chem3/nt8.i/20100322.b/qn21d.d



Date : 22-MAR-2010 21:32

Client ID: CB101031010COMP

Instrument: nt8.i

Sample Info: QN21D

Volume Injected (uL): 2.0

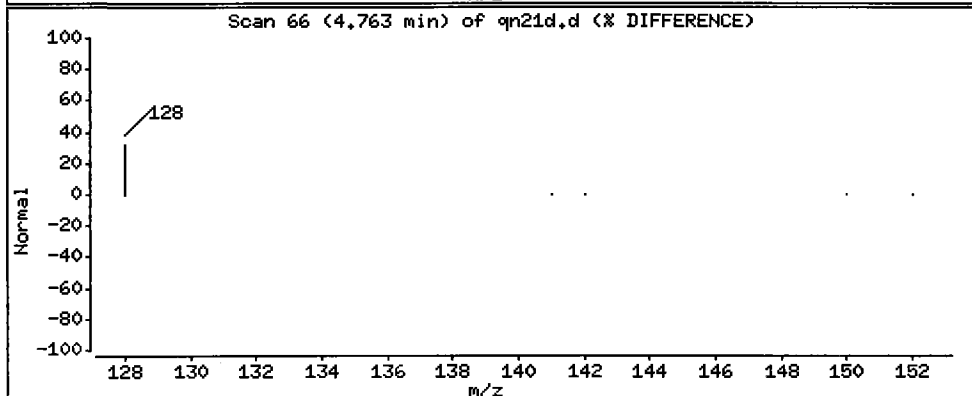
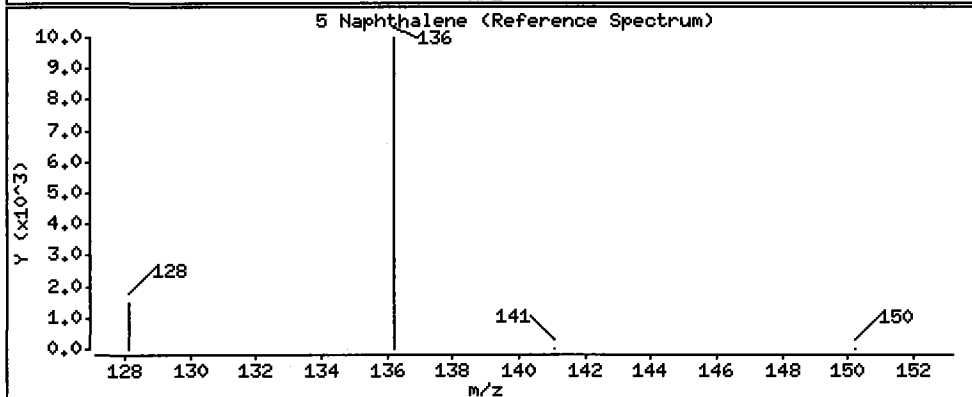
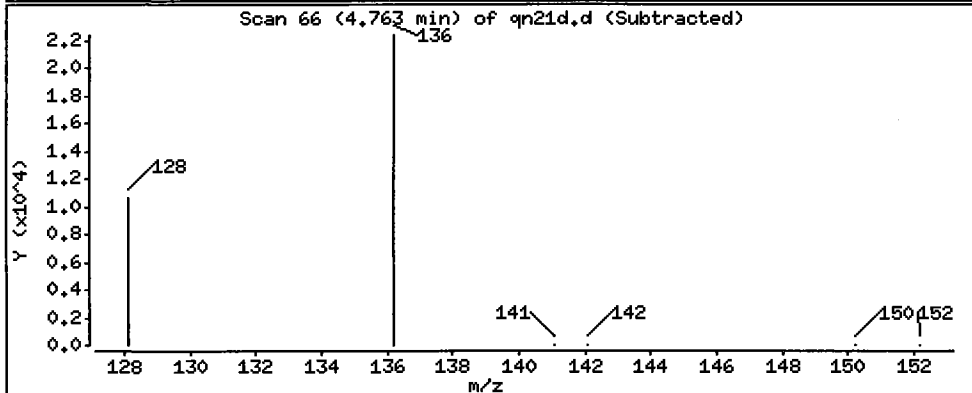
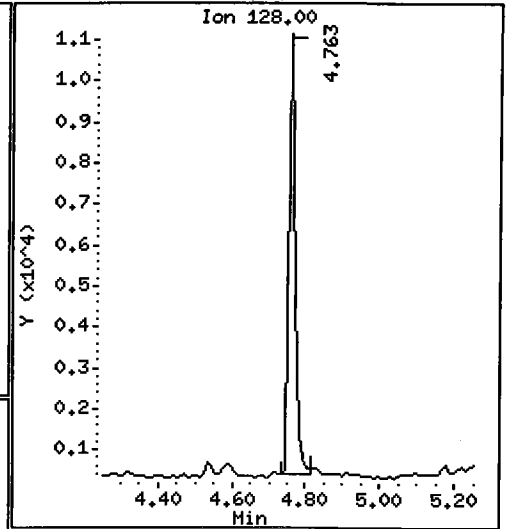
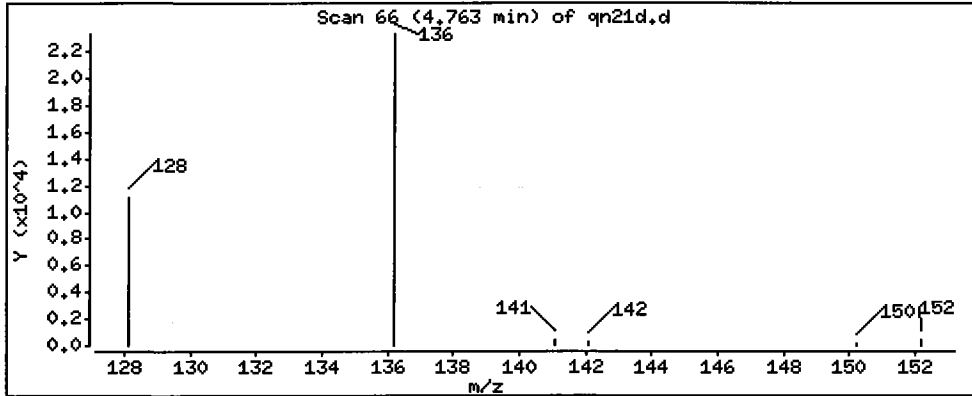
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

5 Naphthalene

Concentration: 11.0 ug/L



Date : 22-MAR-2010 21:32

Client ID: CB101031010COMP

Instrument: nt8.i

Sample Info: QN21D

Volume Injected (uL): 2.0

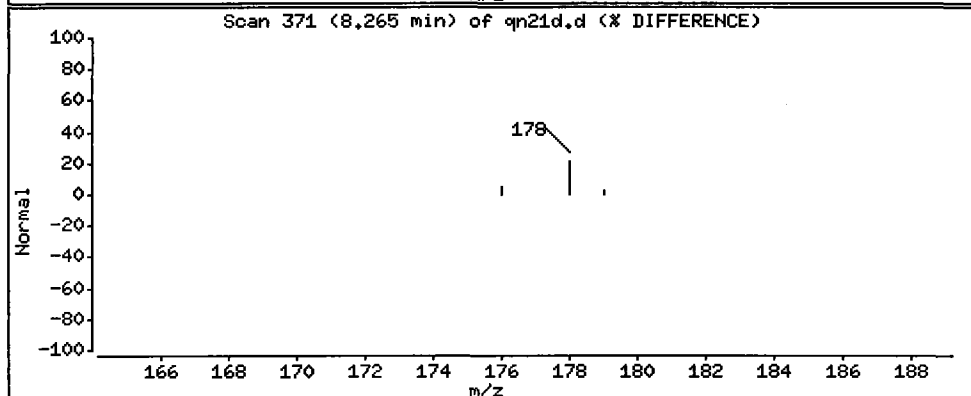
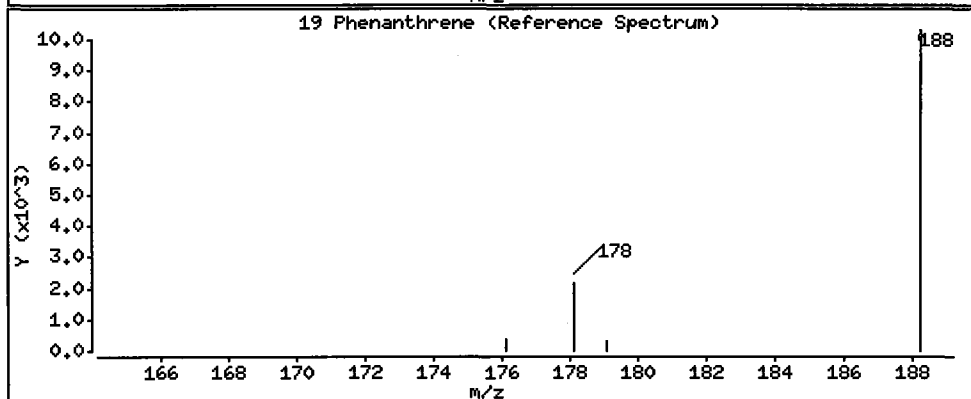
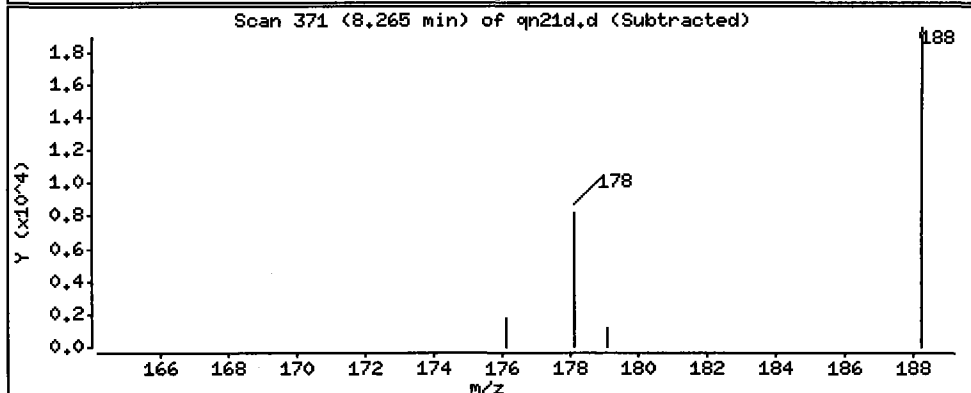
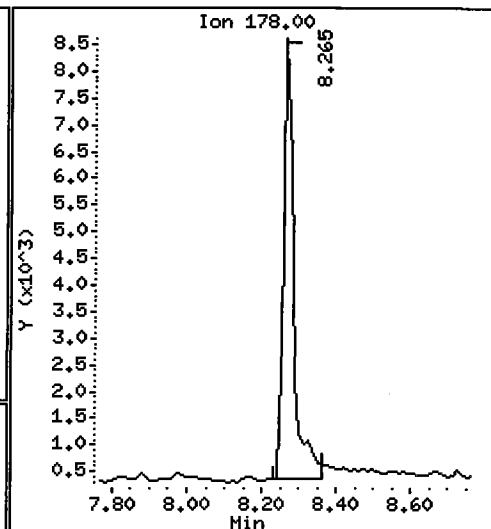
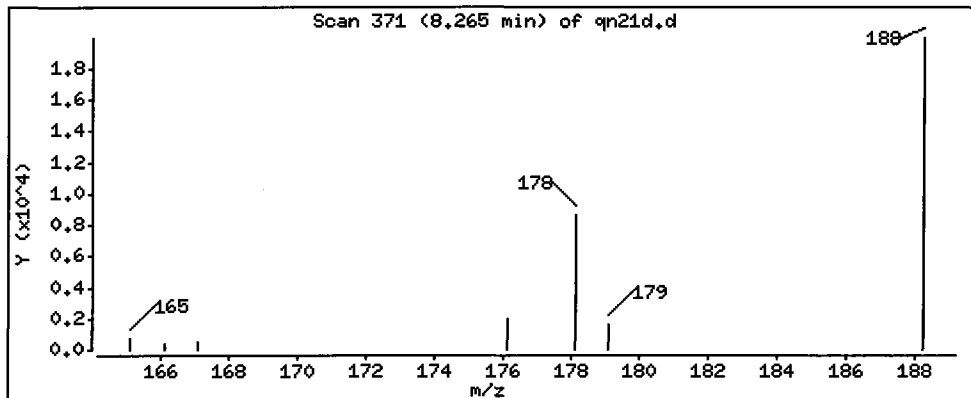
Operator: VTS

Column phase: ZB-5

Column diameter: 0,25

19 Phenanthrene

Concentration: 16,1 ug/L



Date : 22-MAR-2010 21:32

Client ID: CB101031010COMP

Instrument: nt8.i

Sample Info: QN21D

Volume Injected (uL): 2.0

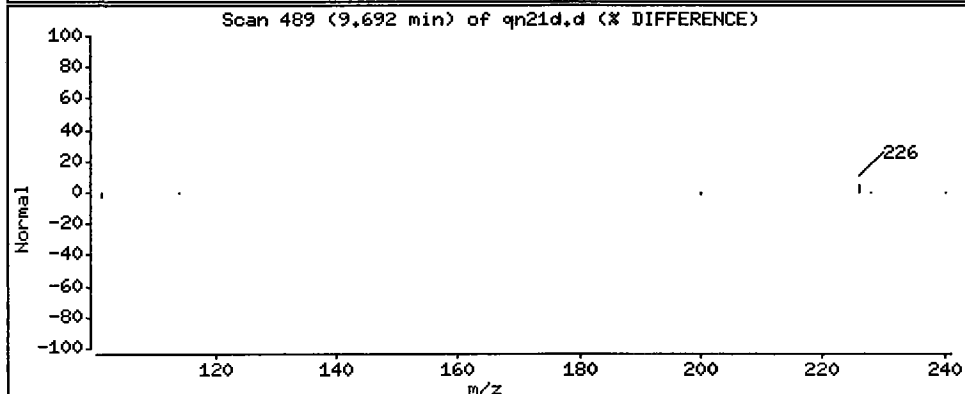
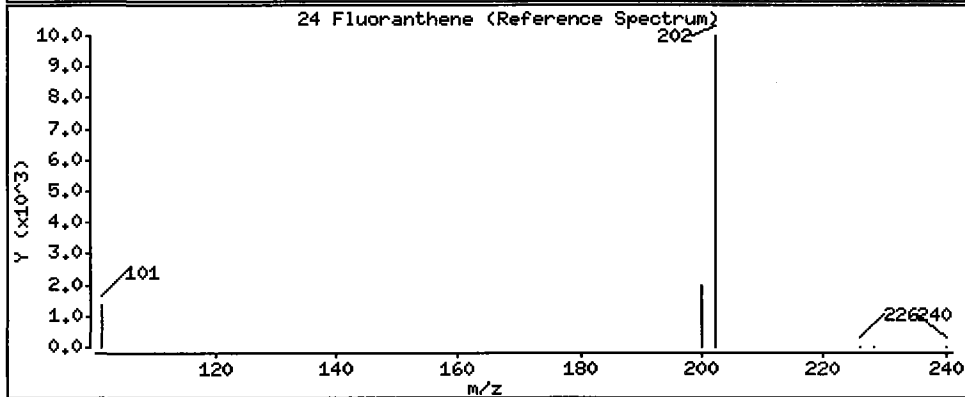
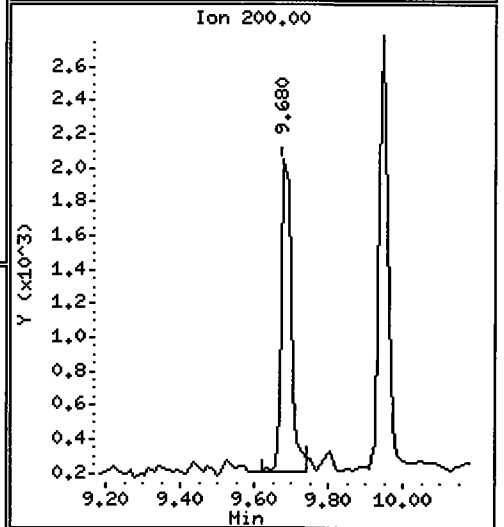
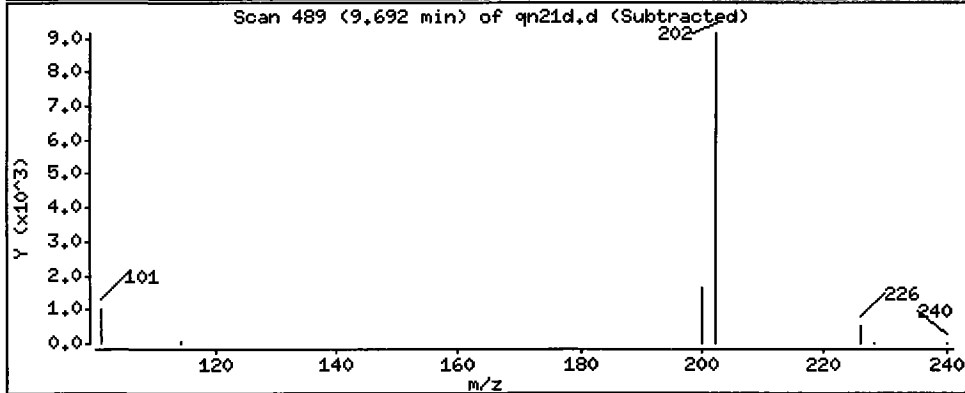
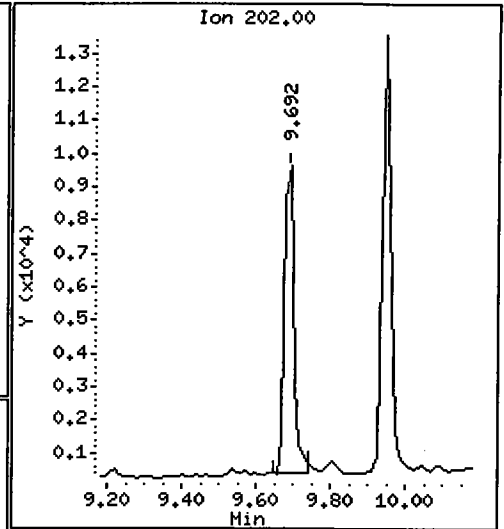
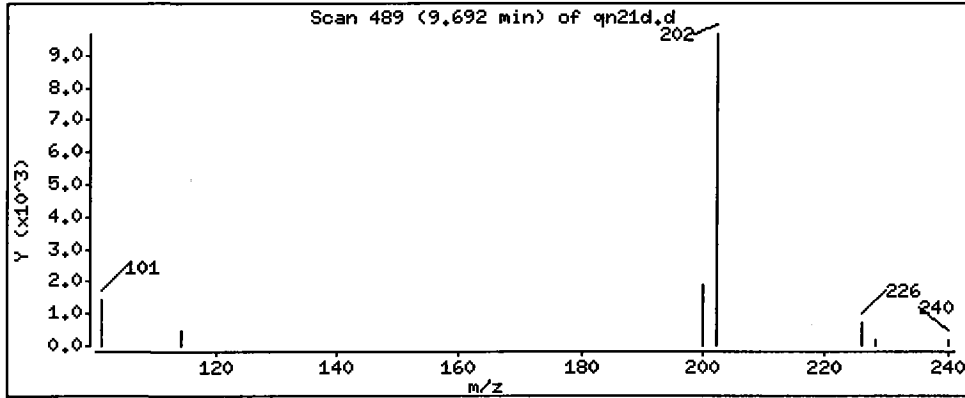
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

24 Fluoranthene

Concentration: 16.9 ug/L



Date : 22-MAR-2010 21:32

Client ID: CB101031010COMP

Instrument: nt8.i

Sample Info: QN21D

Volume Injected (uL): 2.0

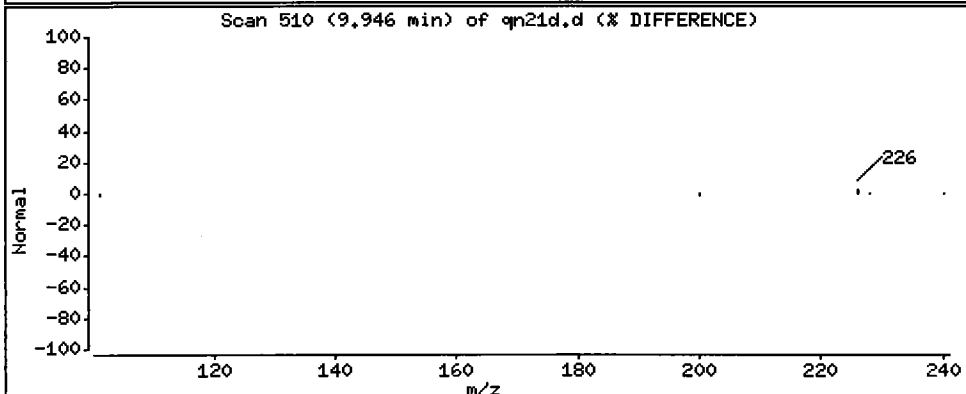
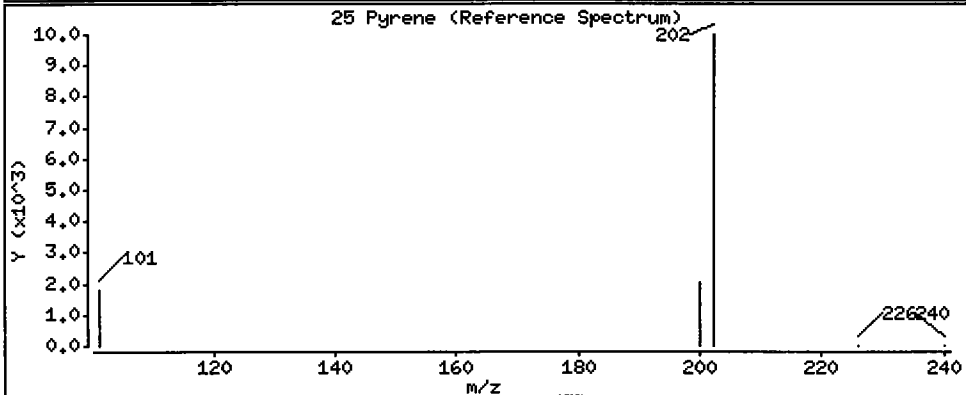
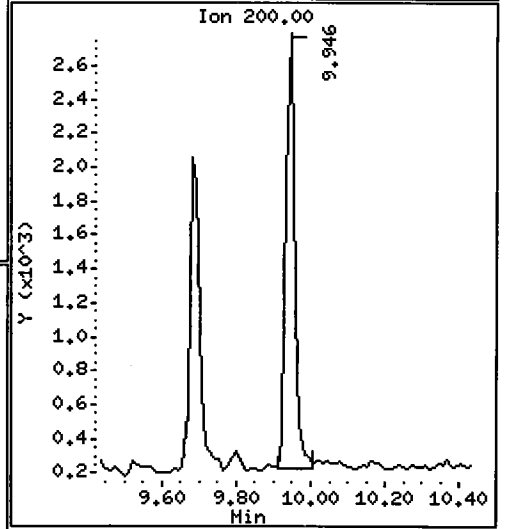
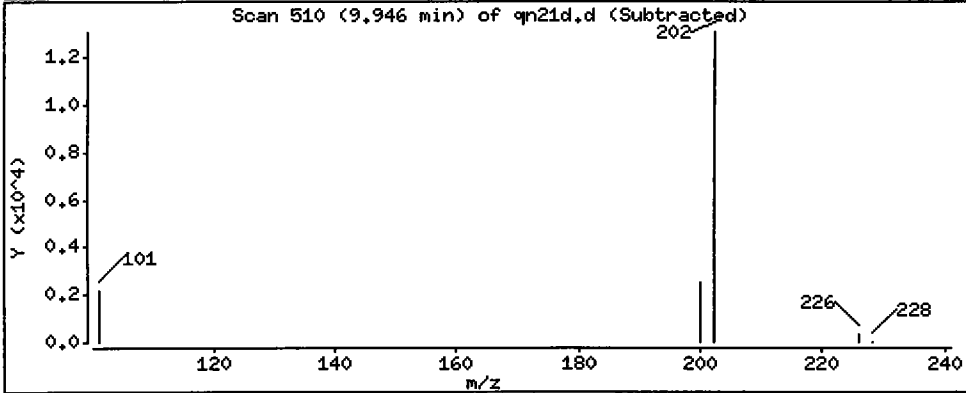
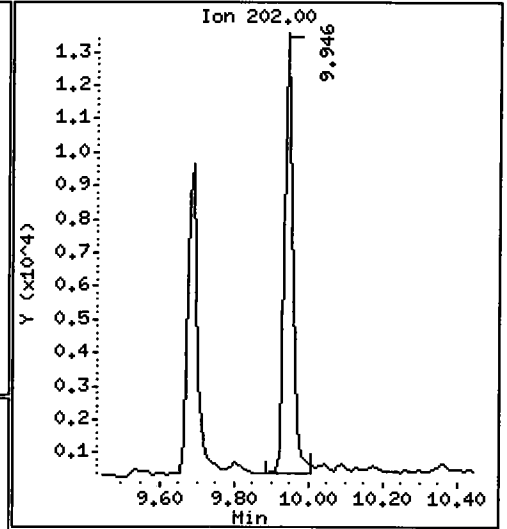
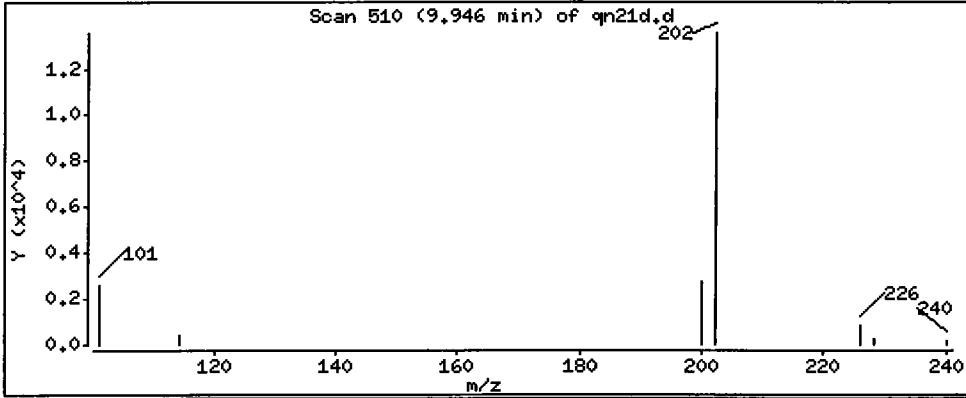
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

25 Pyrene

Concentration: 20.3 ug/L



SIM Semivolatile Analysis
Standard Raw Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2010 15:37
 End Cal Date : 22-MAR-2010 17:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt8.i/20100322.b/lowsim.m
 Cal Date : 24-Mar-2010 08:21 yev
 Curve Type : Average

Calibration File Names:

- Level 1: /chem3/nt8.i/20100322.b/ic0322c.d
- Level 2: /chem3/nt8.i/20100322.b/ic0322f.d
- Level 3: /chem3/nt8.i/20100322.b/ic0322e.d
- Level 4: /chem3/nt8.i/20100322.b/ic0322a.d
- Level 5: /chem3/nt8.i/20100322.b/ic0322d.d
- Level 6: /chem3/nt8.i/20100322.b/ic0322b.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 | 1.30087 | 1.19111 | 1.08698 | 1.08843 | 1.04784 | 1.06993 | 1.13086 | 8.561 |
| 7 2-Methylnaphthalene | 0.69584 | 0.70831 | 0.66841 | 0.68378 | 0.67350 | 0.68259 | 0.68540 | 2.139 |
| 8 1-Methylnaphthalene | 0.75919 | 0.76004 | 0.66619 | 0.68406 | 0.67097 | 0.67728 | 0.70296 | 6.302 |
| 9 Dimethylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 10 Acenaphthylene | 1.95822 | 1.97683 | 1.82258 | 1.86188 | 1.86350 | 2.06480 | 1.92463 | 4.739 |
| 12 Acenaphthene | 1.27795 | 1.27454 | 1.12948 | 1.16042 | 1.16704 | 1.26475 | 1.21236 | 5.537 |
| 13 Diethylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 14 Dibenzofuran | 1.98157 | 1.71586 | 1.47144 | 1.51144 | 1.52446 | 1.60924 | 1.63567 | 11.650 |
| 15 Fluorene | 1.34781 | 1.24524 | 1.21167 | 1.25301 | 1.24528 | 1.38671 | 1.28162 | 5.381 |
| 17 Pentachlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 19 Phenanthrene | 1.21620 | 1.13864 | 1.07769 | 1.11793 | 1.08678 | 1.18811 | 1.13756 | 4.861 |
| 20 Anthracene | 1.33419 | 1.44447 | 1.32173 | 1.28224 | 1.27631 | 1.35864 | 1.33626 | 4.606 |
| 21 Di-n-butylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 22 Carbazole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 24 Fluoranthene | 1.19943 | 1.15528 | 1.09451 | 1.12215 | 1.13298 | 1.24791 | 1.15871 | 4.843 |
| 25 Pyrene | 1.22266 | 1.20692 | 1.12895 | 1.16228 | 1.16947 | 1.29194 | 1.19703 | 4.779 |
| 26 Butylbenzylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 27 Bis(2-Ethylhexyl)phthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 28 Benzo(a)anthracene | 1.13160 | 1.10072 | 1.15874 | 1.22955 | 1.20050 | 1.33839 | 1.19325 | 7.110 |

Analytical Resources, Inc.
 INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2010 15:37
 End Cal Date : 22-MAR-2010 17:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt8.i/20100322.b/lowsim.m
 Cal Date : 24-Mar-2010 08:21 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 | 2.07690 | 1.90598 | 1.77402 | 1.59047 | 1.51733 | 1.56567 | 1.73839 | 12.721 |
| 31 Di-n-octylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 32 Benzo(b)fluoranthene | 1.18070 | 1.31266 | 1.41033 | 1.81698 | 1.85717 | 1.62751 | 1.53422 | 18.025 |
| 33 Benzo(k)fluoranthene | 2.25725 | 2.14961 | 1.95981 | 1.82464 | 2.23125 | 2.23556 | 2.10968 | 8.418 |
| 34 Benzo(a)pyrene | 1.46265 | 1.28010 | 1.22465 | 1.34603 | 1.27089 | 1.44870 | 1.33884 | 7.361 |
| 37 Indeno(1,2,3-cd)pyrene | 1.74553 | 1.70869 | 1.63576 | 1.76316 | 1.67709 | 1.89556 | 1.73763 | 5.182 |
| 38 Dibenzo(a,h)anthracene | 1.36520 | 1.35590 | 1.29123 | 1.42721 | 1.33901 | 1.50464 | 1.38053 | 5.433 |
| 39 Benzo(g,h,i)perylene | 1.56171 | 1.50646 | 1.47550 | 1.57209 | 1.48321 | 1.65448 | 1.54224 | 4.406 |
| \$ 1 D5-Phenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 6 2-Methylnaphthalene-d10 | +++++ | 0.68204 | 0.61067 | 0.61818 | 0.60774 | 0.60953 | 0.62563 | 5.080 |
| \$ 16 2,4,6-Tribromophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 23 Fluoranthene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 1.00242 | 1.03379 | 0.96554 | 1.05235 | 0.99416 | 1.07554 | 1.02063 | 3.983 |

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt8.i/20100322.b/lowsim.m
Batch File: /chem3/nt8.i/20100322.b
Inst ID: nt8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| \$ 1 D5-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 | 4.742 | 4.742 | 4.742 | 4.742 | 4.742 | 4.742 | 4.742 | 4.492-4.992 | 4.742 | 0.000 |
| 5 Naphthalene | 4.753 | 4.753 | 4.753 | 4.753 | 4.753 | 4.753 | 4.753 | 4.503-5.003 | 4.756 | 0.005 |
| \$ 6 2-Methylnaphthalene-d1 | 5.408 | 5.408 | 5.408 | 5.408 | 5.408 | 5.408 | 5.408 | 5.158-5.658 | 5.408 | 0.000 |
| 7 2-Methylnaphthalene | 5.440 | 5.440 | 5.439 | 5.439 | 5.439 | 5.440 | 5.440 | 5.190-5.690 | 5.439 | 0.000 |
| 8 1-Methylnaphthalene | 5.544 | 5.544 | 5.543 | 5.543 | 5.543 | 5.544 | 5.544 | 5.294-5.794 | 5.544 | 0.000 |
| 9 Dimethylphthalate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 10.433 | 10.183-10.683 | ++++ | ++++ |
| 10 Acenaphthylene | 6.379 | 6.379 | 6.379 | 6.379 | 6.379 | 6.379 | 6.379 | 6.129-6.629 | 6.379 | 0.000 |
| * 11 Acenaphthene-d10 | 6.561 | 6.561 | 6.561 | 6.560 | 6.560 | 6.561 | 6.561 | 6.311-6.811 | 6.561 | 0.000 |
| 12 Acenaphthene | 6.585 | 6.585 | 6.585 | 6.585 | 6.585 | 6.585 | 6.585 | 6.335-6.835 | 6.585 | 0.000 |
| 13 Diethylphthalate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.543 | 11.293-11.793 | ++++ | ++++ |
| 14 Dibenzofuran | 6.778 | 6.778 | 6.778 | 6.778 | 6.778 | 6.778 | 6.778 | 6.528-7.028 | 6.778 | 0.000 |
| 15 Fluorene | 7.153 | 7.153 | 7.165 | 7.153 | 7.153 | 7.165 | 7.153 | 6.903-7.403 | 7.157 | 0.006 |
| \$ 16 2,4,6-Tribromophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 12.499 | 12.249-12.749 | ++++ | ++++ |
| 17 Pentachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 13.381 | 13.131-13.631 | ++++ | ++++ |

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt8.i/20100322.b/lowsim.m
Batch File: /chem3/nt8.i/20100322.b
Inst ID: nt8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 18 Phenanthrene-d10 | 8.241 | 8.241 | 8.241 | 8.241 | 8.241 | 8.241 | 8.241 | 7.991-8.491 | 8.241 | 0.000 |
| 19 Phenanthrene | 8.265 | 8.265 | 8.265 | 8.265 | 8.265 | 8.265 | 8.265 | 8.015-8.515 | 8.265 | 0.000 |
| 20 Anthracene | 8.313 | 8.313 | 8.325 | 8.313 | 8.325 | 8.325 | 8.313 | 8.063-8.563 | 8.319 | 0.007 |
| 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 | 9.680 | 9.680 | 9.692 | 9.680 | 9.680 | 9.680 | 9.680 | 9.430-9.930 | 9.682 | 0.005 |
| 25 Pyrene | 9.946 | 9.934 | 9.946 | 9.946 | 9.946 | 9.946 | 9.946 | 9.696-10.196 | 9.944 | 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 | 11.399 | 11.399 | 11.411 | 11.399 | 11.399 | 11.399 | 11.399 | 11.149-11.649 | 11.401 | 0.005 |
| * 29 Chrysene-d12 | 11.423 | 11.411 | 11.423 | 11.423 | 11.423 | 11.423 | 11.423 | 11.173-11.673 | 11.421 | 0.005 |
| 30 Chrysene | 11.447 | 11.447 | 11.447 | 11.447 | 11.447 | 11.447 | 11.447 | 11.197-11.697 | 11.447 | 0.000 |
| 31 Di-n-octylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.607 | 18.357-18.857 | +++++ | +++++ |
| 32 Benzo(b)fluoranthene | 12.634 | 12.624 | 12.645 | 12.645 | 12.634 | 12.634 | 12.634 | 12.384-12.884 | 12.636 | 0.008 |
| 33 Benzo(k)fluoranthene | 12.655 | 12.645 | 12.655 | 12.655 | 12.655 | 12.655 | 12.655 | 12.405-12.905 | 12.653 | 0.004 |
| 34 Benzo(a)pyrene | 12.968 | 12.958 | 12.968 | 12.957 | 12.968 | 12.968 | 12.968 | 12.718-13.218 | 12.964 | 0.005 |
| * 35 Perylene-d12 | 13.031 | 13.020 | 13.030 | 13.020 | 13.030 | 13.031 | 13.031 | 12.781-13.281 | 13.027 | 0.005 |
| \$ 36 Dibenzo(a,h)anthracene | 14.031 | 14.031 | 14.043 | 14.030 | 14.043 | 14.043 | 14.031 | 13.781-14.281 | 14.037 | 0.007 |
| 37 Indeno(1,2,3-cd)pyrene | 14.043 | 14.043 | 14.067 | 14.043 | 14.055 | 14.055 | 14.043 | 13.793-14.293 | 14.051 | 0.010 |
| 38 Dibenzo(a,h)anthracene | 14.067 | 14.055 | 14.079 | 14.055 | 14.067 | 14.067 | 14.067 | 13.817-14.317 | 14.065 | 0.009 |
| 39 Benzo(g,h,i)perylene | 14.297 | 14.285 | 14.309 | 14.285 | 14.297 | 14.297 | 14.297 | 14.047-14.547 | 14.295 | 0.009 |

Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322a.d
 Lab Smp Id: IC0322A
 Inj Date : 22-MAR-2010 15:37
 Operator : VTS
 Smp Info : IC0322A
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 15:37
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322a.d
 Calibration Sample, Level: 4
 Compound Sublist: pnalmn.sub

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 218805 | 200.000 | |
| 5 Naphthalene | 128 | 4.753 | 4.753 | (1.002) | 297692 | 250.000 | 241 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 169075 | 250.000 | 247 |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 | (1.147) | 187017 | 250.000 | 249 |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 | (1.169) | 187096 | 250.000 | 243 |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 277978 | 250.000 | 242 |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 119440 | 200.000 | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 173250 | 250.000 | 239 |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 225658 | 250.000 | 231 |
| 15 Fluorene | 166 | 7.153 | 7.153 | (1.090) | 187074 | 250.000 | 244 |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 183479 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 256395 | 250.000 | 246 |
| 20 Anthracene | 178 | 8.313 | 8.313 | (1.009) | 294079 | 250.000 | 240 |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 257364 | 250.000 | 242 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 266567 | 250.000 | 243 |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (1.000) | 186997 | 250.000 | 258 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 121669 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 241888 | 250.000 | 229 |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (1.000) | 232113 | 250.000 | 296 |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (1.000) | 233091 | 250.000 | 216(M) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (1.000) | 171950 | 250.000 | 251 |
| * 35 Perylene-d12 | 264 | 13.031 | 13.020 | (1.000) | 102197 | 200.000 | (M) |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.000) | 225237 | 250.000 | 254 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.000) | 134434 | 250.000 | 258 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.067 | 14.067 | (1.000) | 182321 | 250.000 | 258 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.000) | 200828 | 250.000 | 255 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322a.d
 Lab Smp Id: IC0322A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 218805 | 0.00 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 119440 | 0.00 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 183479 | 0.00 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 121669 | 0.00 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 102197 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

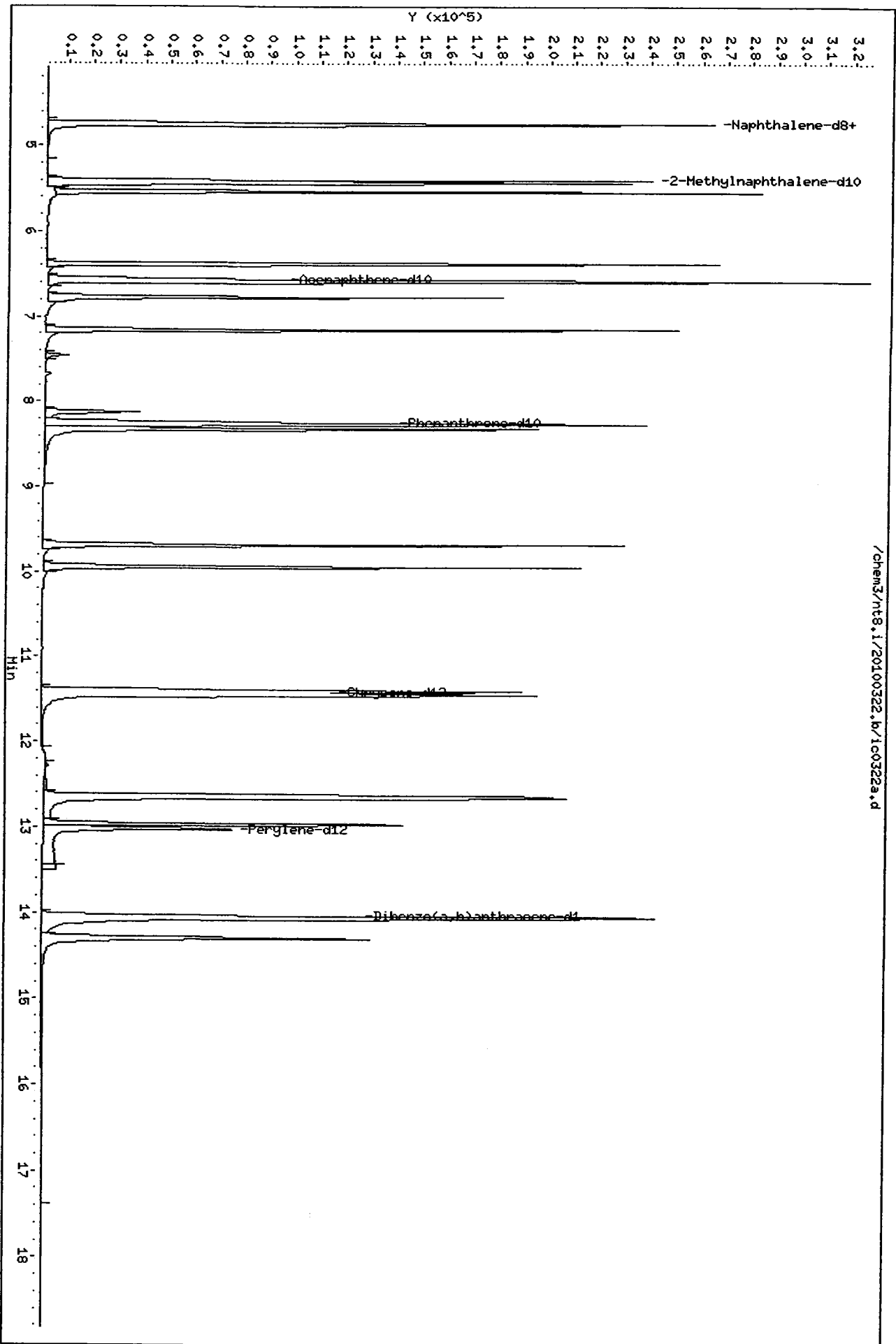
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt8.i/20100322.b/100322a.d
Date: 22-MAR-2010 15:37
Client ID:
Sample Info: 100322A

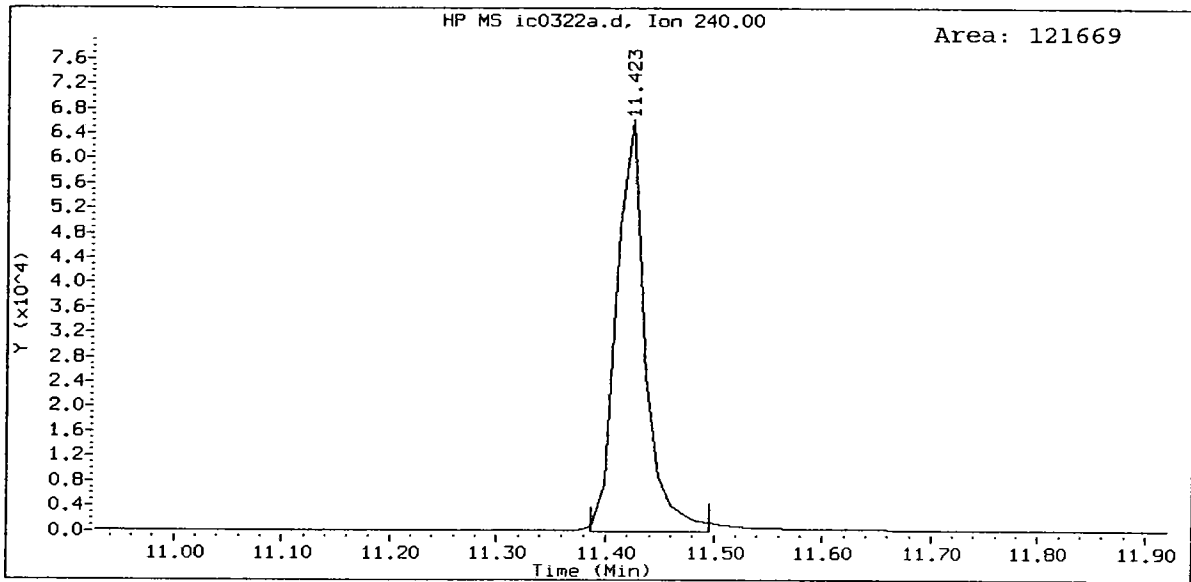
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25

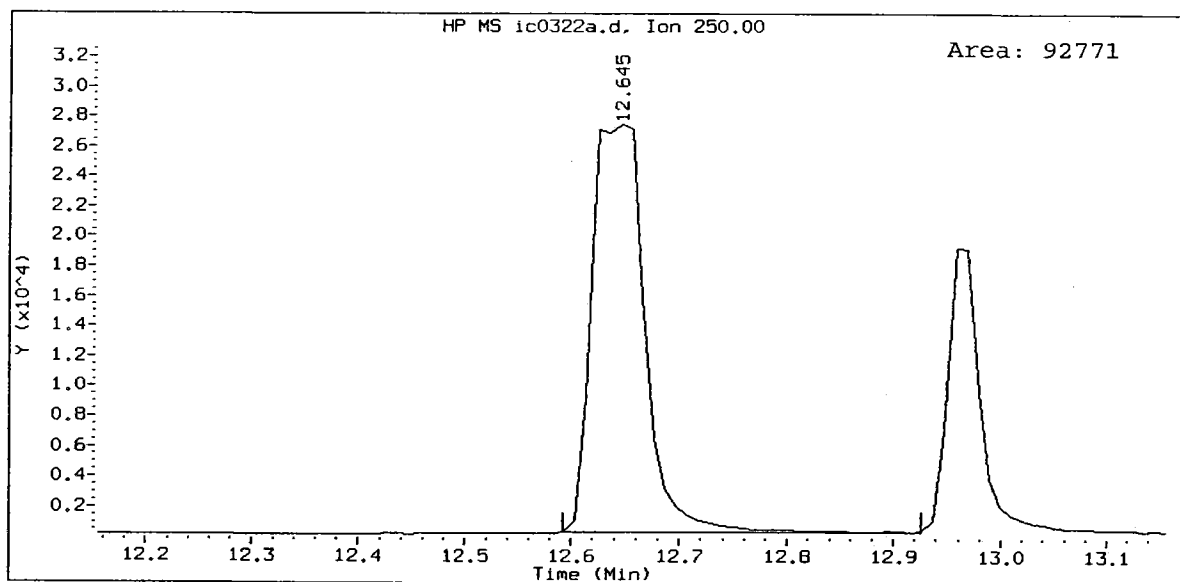
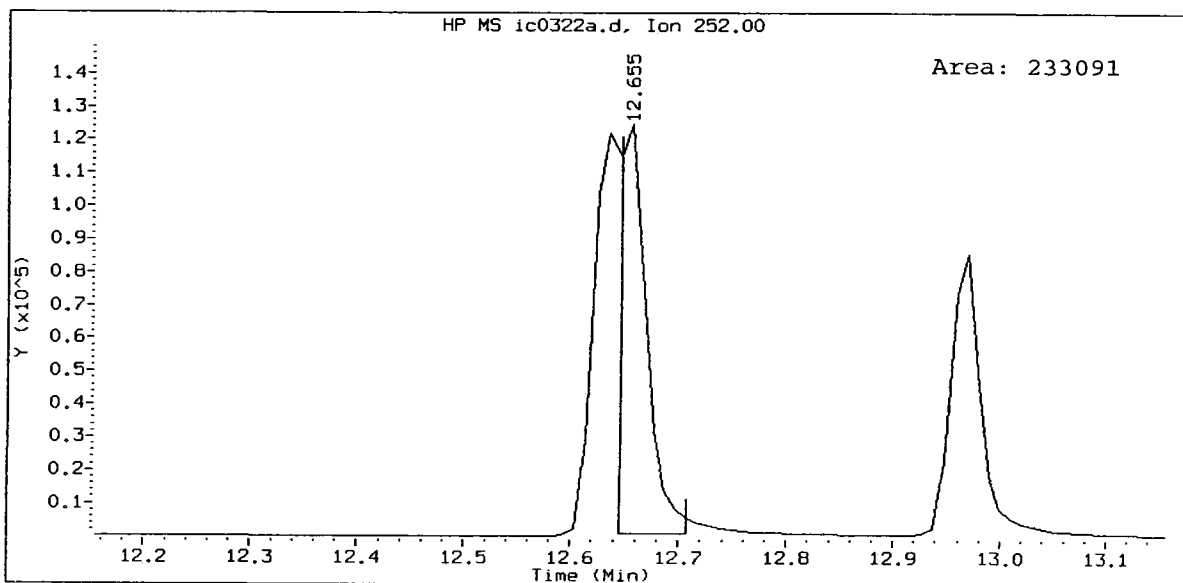
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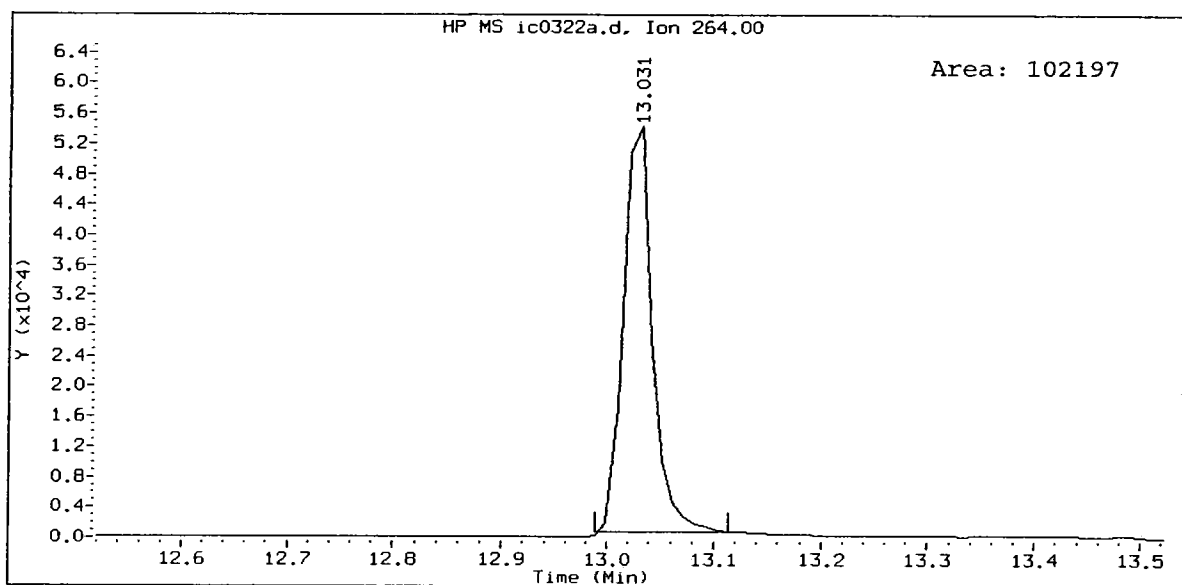
IC0322A, /chem3/nt8.i/20100322.b/ic0322a.d
Chrysene-d12 Amount: 200.00



IC0322A, /chem3/nt8.i/20100322.b/ic0322a.d
Benzo(k)fluoranthene Amount: 216.22



IC0322A, /chem3/nt8.i/20100322.b/ic0322a.d
Perylene-d12 Amount: 200.00



Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM *YZ 3/24/10*
 Data file : /chem3/nt8.i/20100322.b/ic0322b.d
 Lab Smp Id: IC0322B
 Inj Date : 22-MAR-2010 16:00
 Operator : VTS Inst ID: nt8.i
 Smp Info : IC0322B
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 16:00 Cal File: ic0322b.d
 Als bottle: 3 Calibration Sample, Level: 6
 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 | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|------------------------------|-----------|--------|----------------|---------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 (1.000) | 229256 | 200.000 | | | |
| 5 Naphthalene | 128 | 4.753 | 4.753 (1.002) | 1226442 | 1000.00 | 946 | | |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 (1.140) | 698696 | 1000.00 | 974 | | |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 (1.147) | 782438 | 1000.00 | 996 | | |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 (1.169) | 776347 | 1000.00 | 963 | | |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 (0.972) | 1196007 | 1000.00 | 1070(A) | | |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 (1.000) | 115847 | 200.000 | | | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 (1.004) | 732585 | 1000.00 | 1040(A) | | |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 (1.033) | 932130 | 1000.00 | 984 | | |
| 15 Fluorene | 166 | 7.153 | 7.153 (1.090) | 803229 | 1000.00 | 1080(A) | | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 (1.000) | 179911 | 200.000 | | | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 (1.003) | 1068770 | 1000.00 | 1040(A) | | |
| 20 Anthracene | 178 | 8.313 | 8.313 (1.009) | 1222168 | 1000.00 | 1020(A) | | |
| 24 Fluoranthene | 202 | 9.680 | 9.680 (1.175) | 1122568 | 1000.00 | 1080(A) | | |
| 25 Pyrene | 202 | 9.934 | 9.946 (1.206) | 1162167 | 1000.00 | 1080(A) | | |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 (0.999) | 861117 | 1000.00 | 1120(A) | | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 29 Chrysene-d12 | 240 | 11.411 | 11.423 | (1.000) | 128680 | 200.000 | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.003) | 1007351 | 1000.00 | 901 |
| 32 Benzo(b)fluoranthene | 252 | 12.624 | 12.655 | (0.970) | 885080 | 1000.00 | 1060(AM) |
| 33 Benzo(k)fluoranthene | 252 | 12.645 | 12.655 | (0.971) | 1215751 | 1000.00 | 1060(AM) |
| 34 Benzo(a)pyrene | 252 | 12.958 | 12.968 | (0.995) | 787838 | 1000.00 | 1080(A) |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 108765 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.079) | 1030855 | 1000.00 | 1090(A) |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.078) | 584903 | 1000.00 | 1050(A) |
| 38 Dibenzo(a,h)anthracene | 278 | 14.055 | 14.067 | (1.079) | 818261 | 1000.00 | 1090(A) |
| 39 Benzo(g,h,i)perylene | 276 | 14.285 | 14.297 | (1.097) | 899747 | 1000.00 | 1070(A) |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322b.d
 Lab Smp Id: IC0322B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59

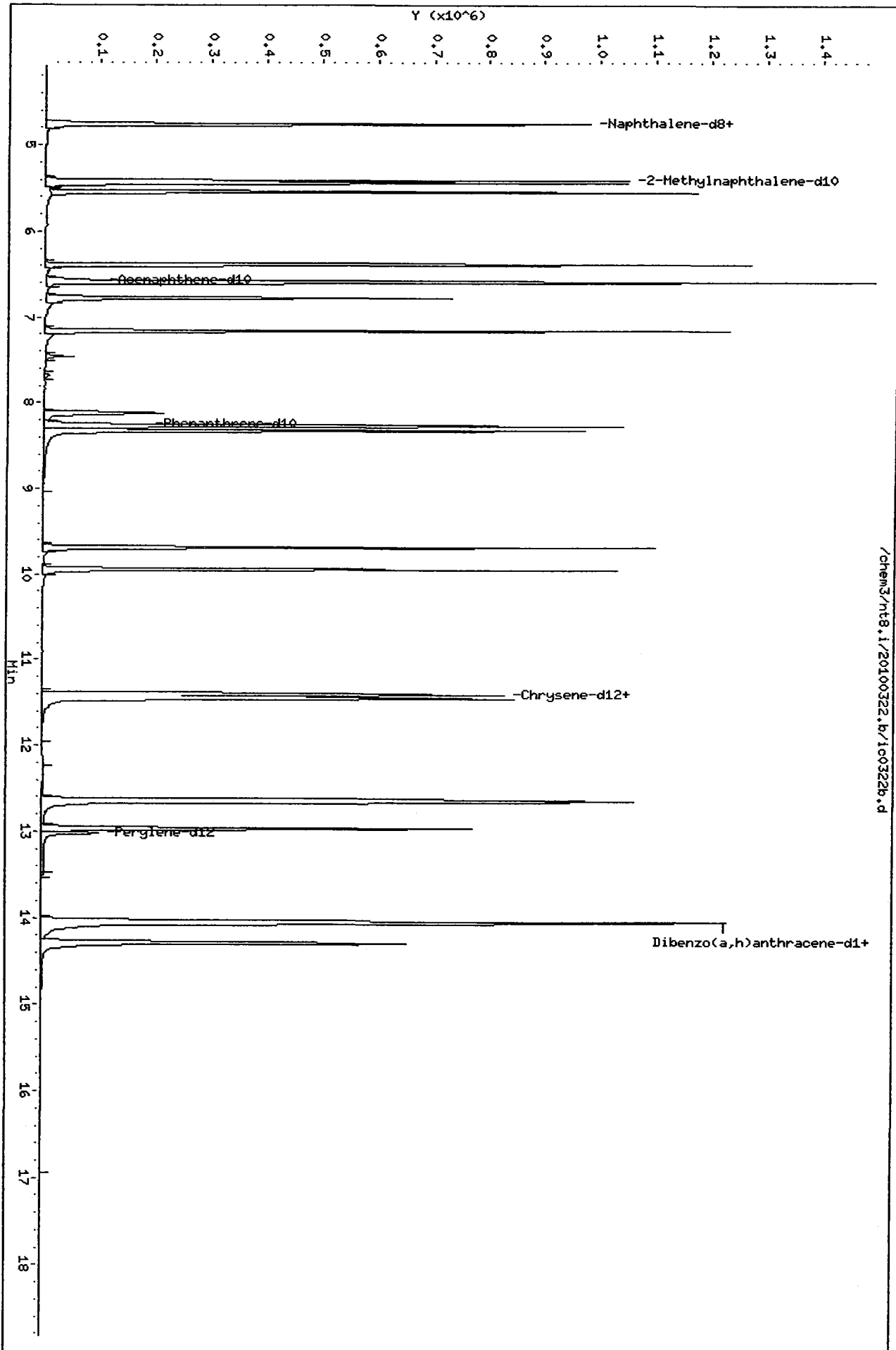
Level: LOW
 Sample Type: WATER

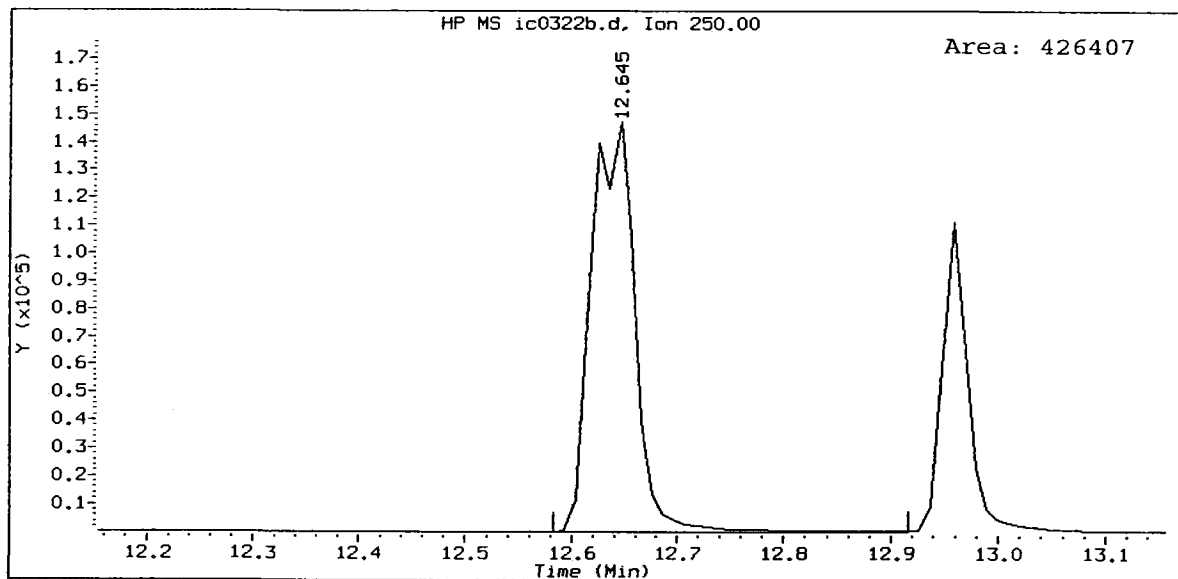
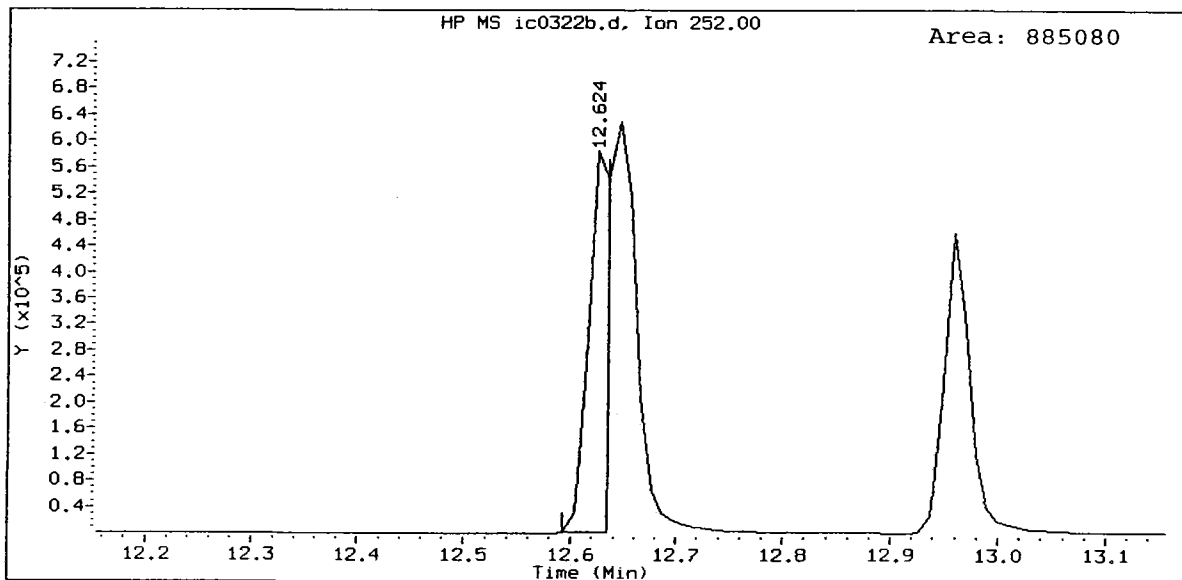
Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 229256 | 4.78 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 115847 | -3.01 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 179911 | -1.94 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 128680 | 5.76 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 108765 | 6.43 |

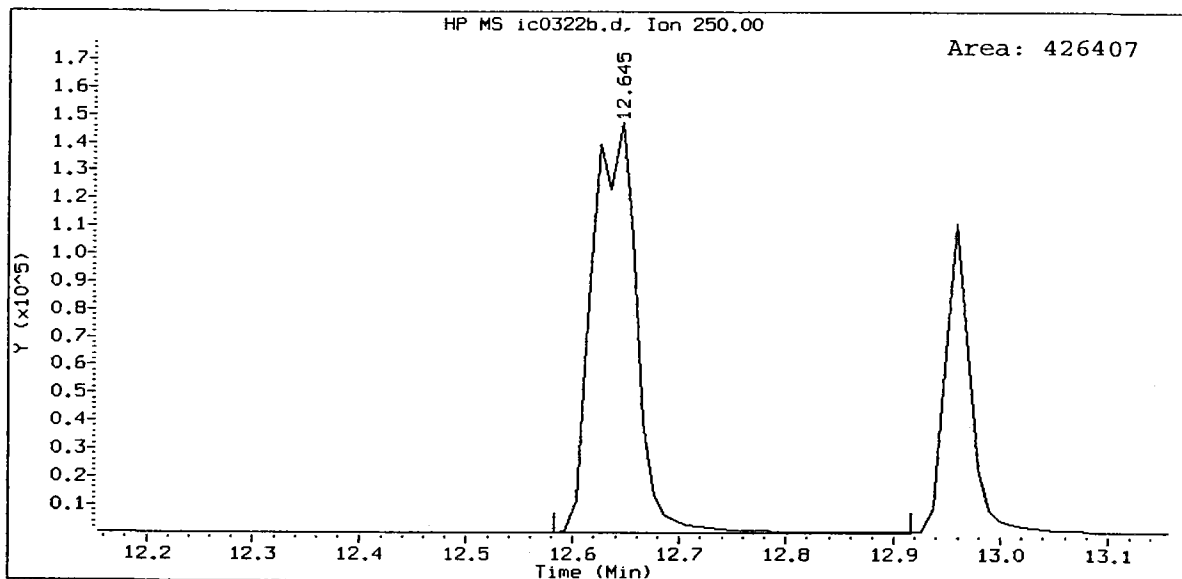
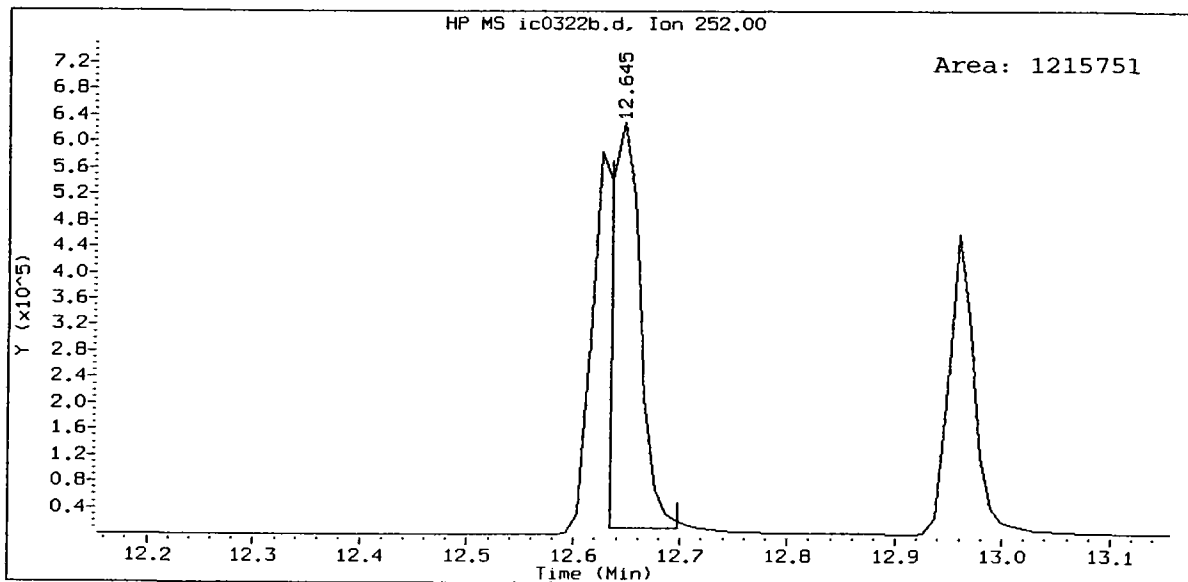
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.41 | -0.11 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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.





IC0322B, /chem3/nt8.i/20100322.b/ic0322b.d
Benzo(k)fluoranthene Amount: 1059.66



Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322c.d
 Lab Smp Id: IC0322C
 Inj Date : 22-MAR-2010 16:24
 Operator : VTS
 Smp Info : IC0322C
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 16:24
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322c.d
 Calibration Sample, Level: 1
 Compound Sublist: pna1mn.sub

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 191625 | 200.000 | |
| 5 Naphthalene | 128 | 4.753 | 4.753 | (1.002) | 12464 | 10.0000 | 11.5 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 6149 | 10.0000 | 10.3 |
| 7 2-Methylnaphthalene | 142 | 5.439 | 5.440 | (1.147) | 6667 | 10.0000 | 10.2 |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 | (1.169) | 7274 | 10.0000 | 10.8 |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 10147 | 10.0000 | 10.2 |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 103635 | 200.000 | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 6622 | 10.0000 | 10.5 |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 10268 | 10.0000 | 12.1 |
| 15 Fluorene | 166 | 7.165 | 7.153 | (1.092) | 6984 | 10.0000 | 10.5 |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 161026 | 200.000 | (M) |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.000) | 9792 | 10.0000 | 10.7 |
| 20 Anthracene | 178 | 8.325 | 8.313 | (1.000) | 10742 | 10.0000 | 9.98 |
| 24 Fluoranthene | 202 | 9.692 | 9.680 | (1.000) | 9657 | 10.0000 | 10.4 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.000) | 9844 | 10.0000 | 10.2 |
| 28 Benzo(a)anthracene | 228 | 11.411 | 11.399 | (1.000) | 5667 | 10.0000 | 9.48 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 100159 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 10401 | 10.0000 | 11.9 |
| 32 Benzo(b)fluoranthene | 252 | 12.645 | 12.655 | (1.000) | 5113 | 10.0000 | 7.70(M) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (1.000) | 9775 | 10.0000 | 10.7(M) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (1.000) | 6334 | 10.0000 | 10.9 |
| * 35 Perylene-d12 | 264 | 13.030 | 13.020 | (1.000) | 86610 | 200.000 | (M) |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.067 | 14.055 | (1.000) | 7559 | 10.0000 | 10.0 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.043 | 14.043 | (1.000) | 4341 | 10.0000 | 9.82 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.079 | 14.067 | (1.000) | 5912 | 10.0000 | 9.89 |
| 39 Benzo(g,h,i)perylene | 276 | 14.309 | 14.297 | (1.000) | 6763 | 10.0000 | 10.1 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322c.d
 Lab Smp Id: IC0322C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 191625 | -12.42 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 103635 | -13.23 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 161026 | -12.24 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 100159 | -17.68 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 86610 | -15.25 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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/nt8.1/20100322.b/ic0322c.d
Date: 22-MAR-2010 16:24

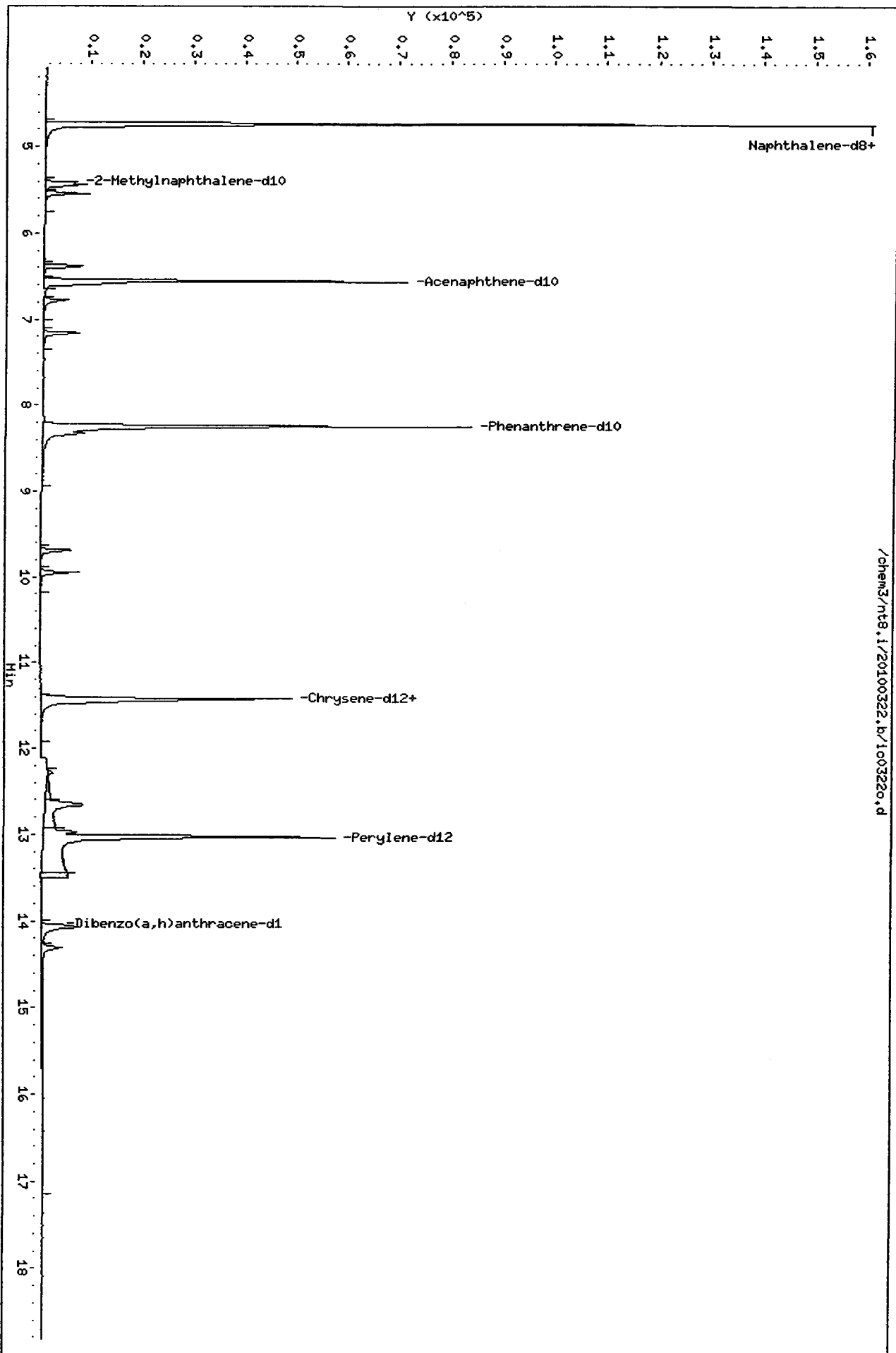
Client ID:
Sample Info: IC0322C

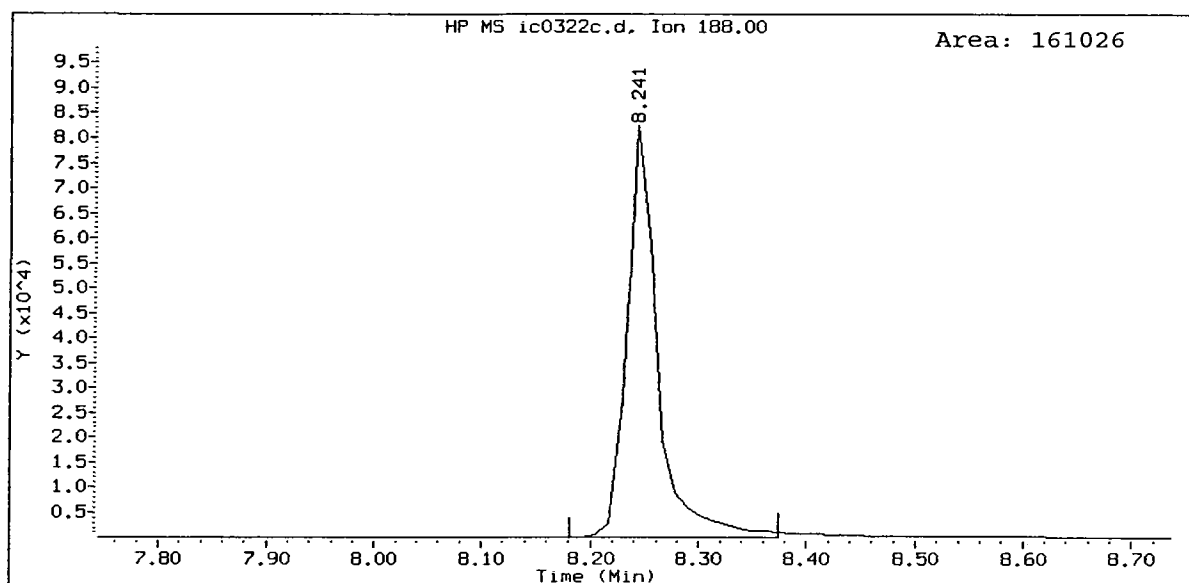
Column phase: ZB-5

Instrument: nt8.1

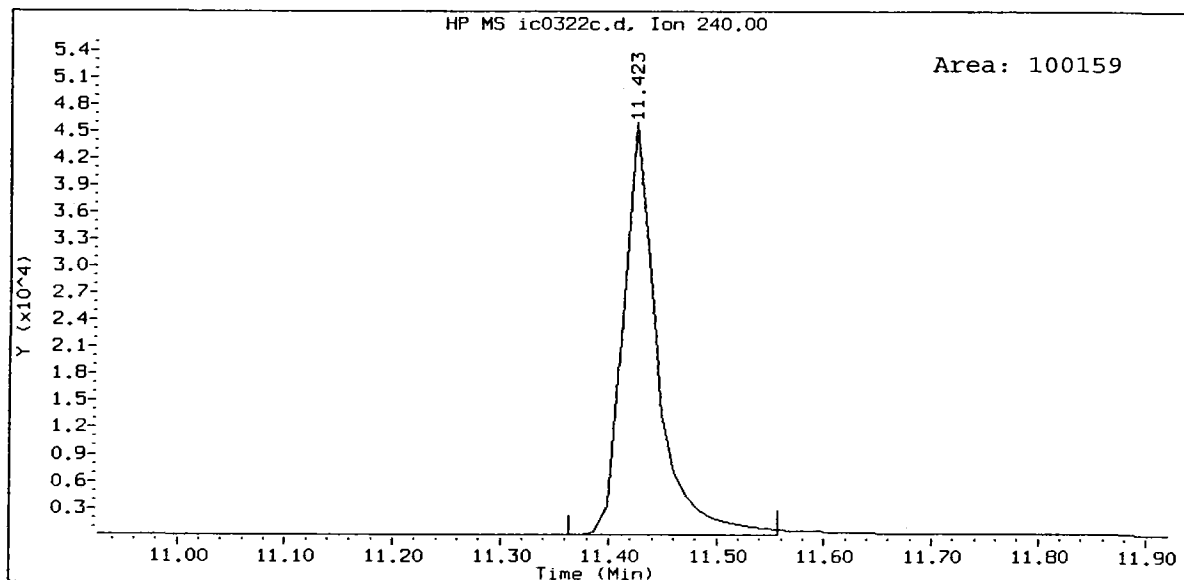
Operator: VTS
Column diameter: 0.25

/chem3/nt8.1/20100322.b/100322o.d

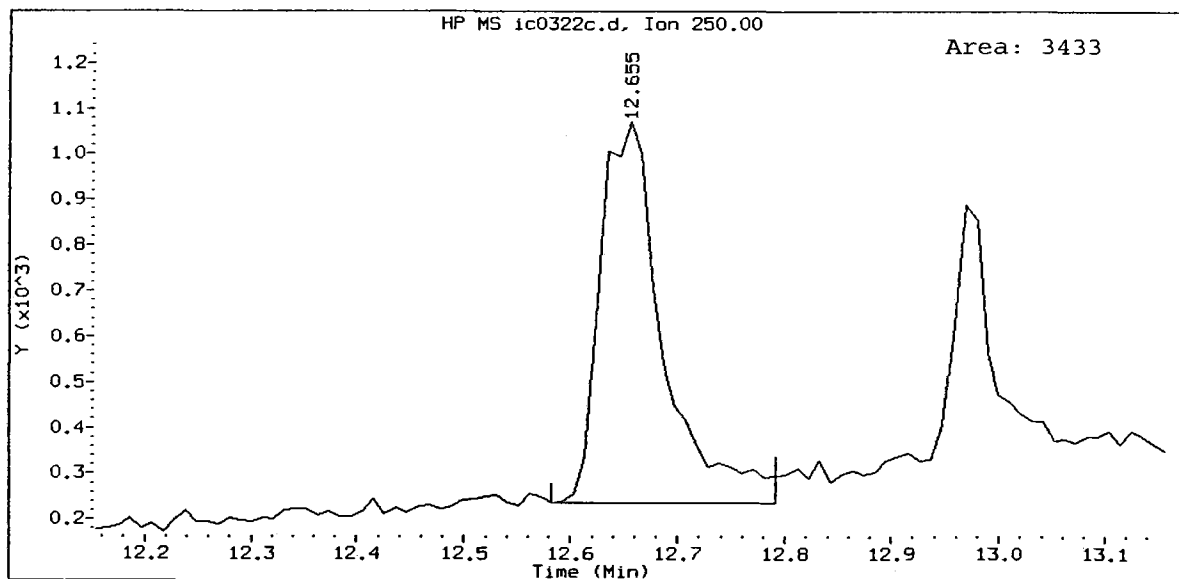
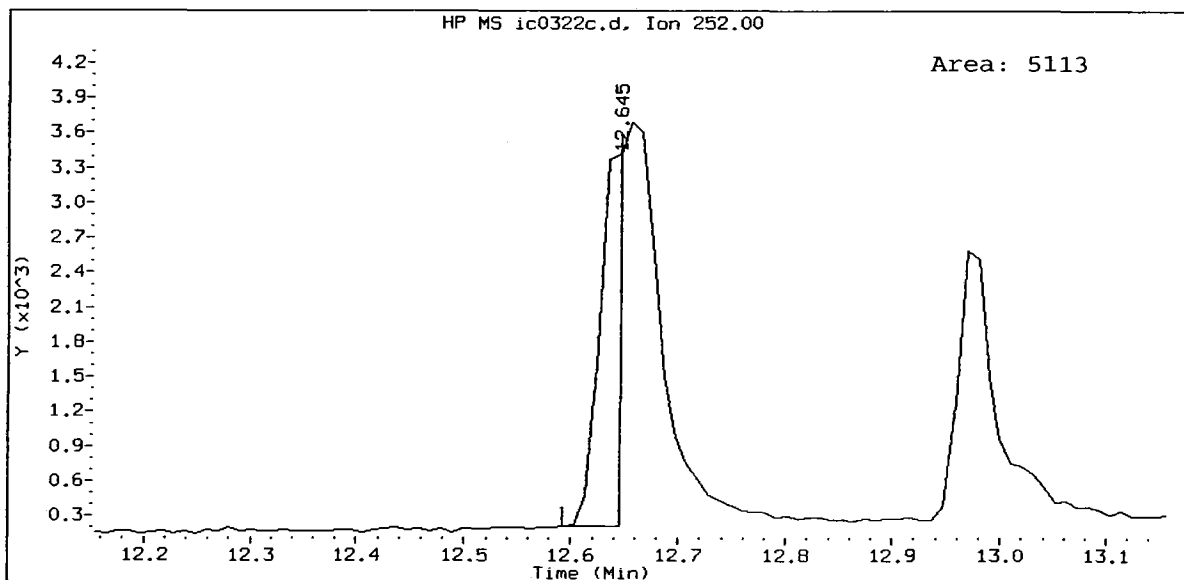




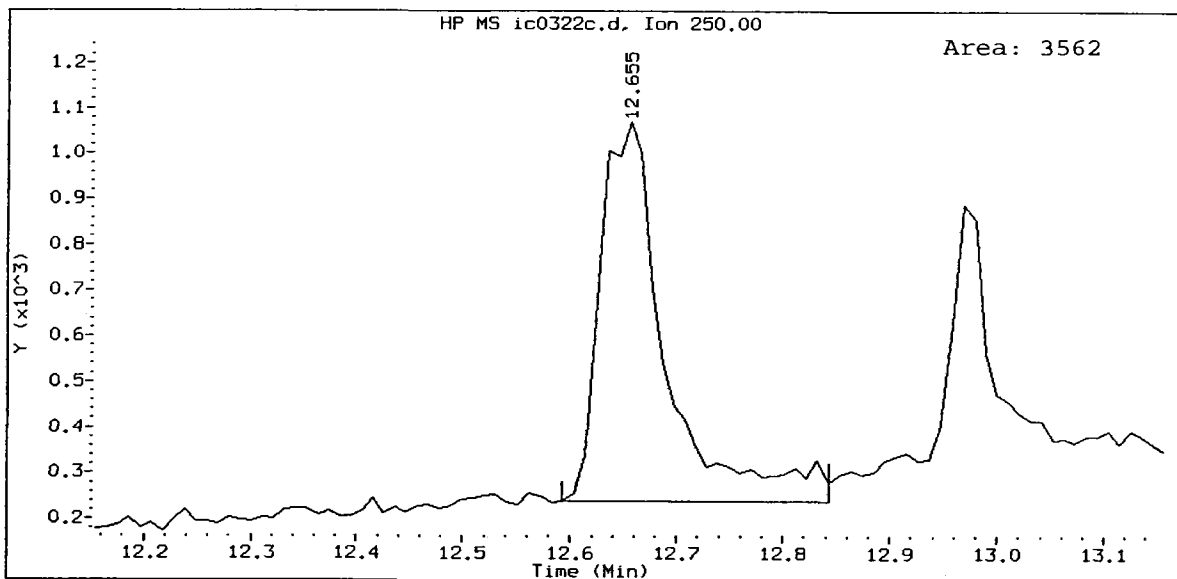
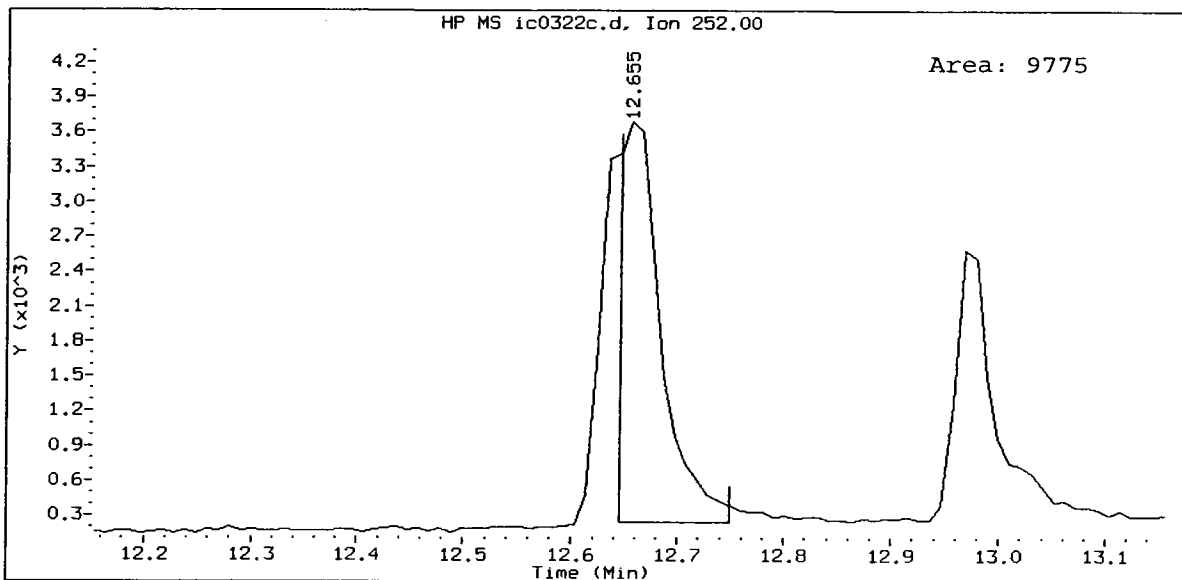
IC0322C, /chem3/nt8.i/20100322.b/ic0322c.d
Chrysene-d12 Amount: 200.00



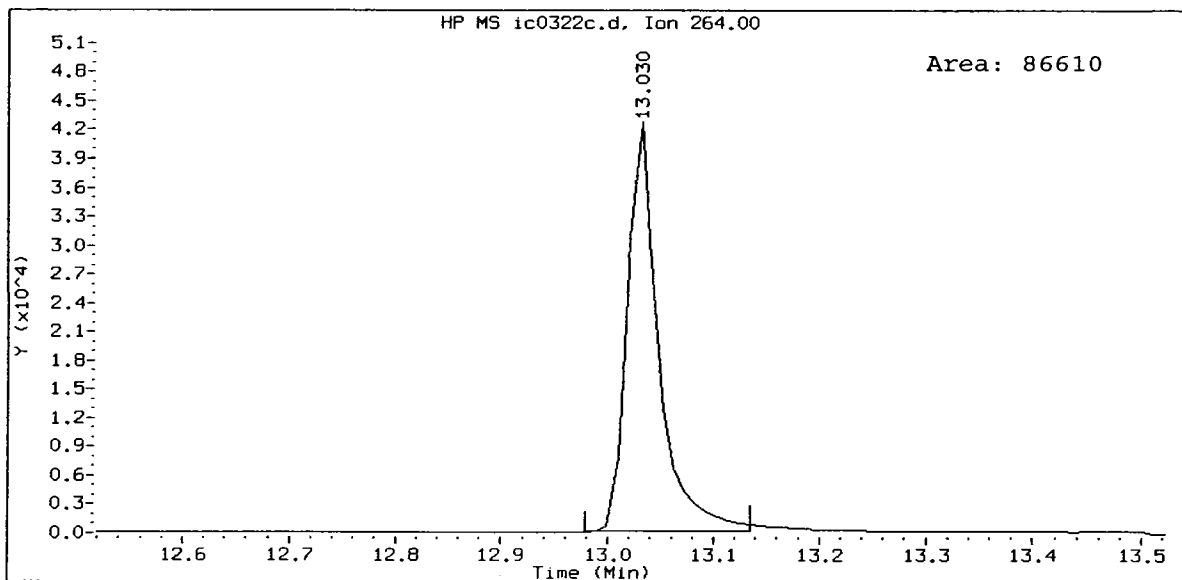
IC0322C, /chem3/nt8.i/20100322.b/ic0322c.d
Benzo(b)fluoranthene Amount: 7.70



IC0322C, /chem3/nt8.i/20100322.b/ic0322c.d
Benzo(k)fluoranthene Amount: 10.70



IC0322C, /chem3/nt8.i/20100322.b/ic0322c.d
Perylene-d12 Amount: 200.00



Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322d.d
 Lab Smp Id: IC0322D
 Inj Date : 22-MAR-2010 16:48
 Operator : VTS
 Smp Info : IC0322D
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 16:48
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322d.d
 Calibration Sample, Level: 5
 Compound Sublist: pna1mn.sub

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 | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|------------------------------|-----------|--------|--------|---------|--------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 215378 | 200.000 | | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 564203 | 500.000 | 463 | |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 327233 | 500.000 | 486 | |
| 7 2-Methylnaphthalene | 142 | 5.439 | 5.440 | (1.147) | 362643 | 500.000 | 491 | |
| 8 1-Methylnaphthalene | 142 | 5.543 | 5.544 | (1.169) | 361282 | 500.000 | 477 | |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 532467 | 500.000 | 484 | |
| * 11 Acenaphthene-d10 | 164 | 6.560 | 6.561 | (1.000) | 114294 | 200.000 | | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 333464 | 500.000 | 481 | |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 435591 | 500.000 | 466 | |
| 15 Fluorene | 166 | 7.153 | 7.153 | (1.090) | 355819 | 500.000 | 486 | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 177085 | 200.000 | | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 481130 | 500.000 | 478 | |
| 20 Anthracene | 178 | 8.313 | 8.313 | (1.009) | 565040 | 500.000 | 478 | |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 501583 | 500.000 | 489 | |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 517737 | 500.000 | 488 | |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (0.998) | 369969 | 500.000 | 503 | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 123272 | 200.000 | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.002) | 467610 | 500.000 | 436 |
| 32 Benzo(b)fluoranthene | 252 | 12.645 | 12.655 | (0.971) | 492286 | 500.000 | 605(M) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (0.972) | 591442 | 500.000 | 529 |
| 34 Benzo(a)pyrene | 252 | 12.957 | 12.968 | (0.995) | 336877 | 500.000 | 475 |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 106029 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.079) | 444550 | 500.000 | 483 |
| § 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.030 | 14.043 | (1.078) | 263525 | 500.000 | 487 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.055 | 14.067 | (1.079) | 354934 | 500.000 | 485 |
| 39 Benzo(g,h,i)perylene | 276 | 14.285 | 14.297 | (1.097) | 393159 | 500.000 | 481 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322d.d
 Lab Smp Id: IC0322D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 4.

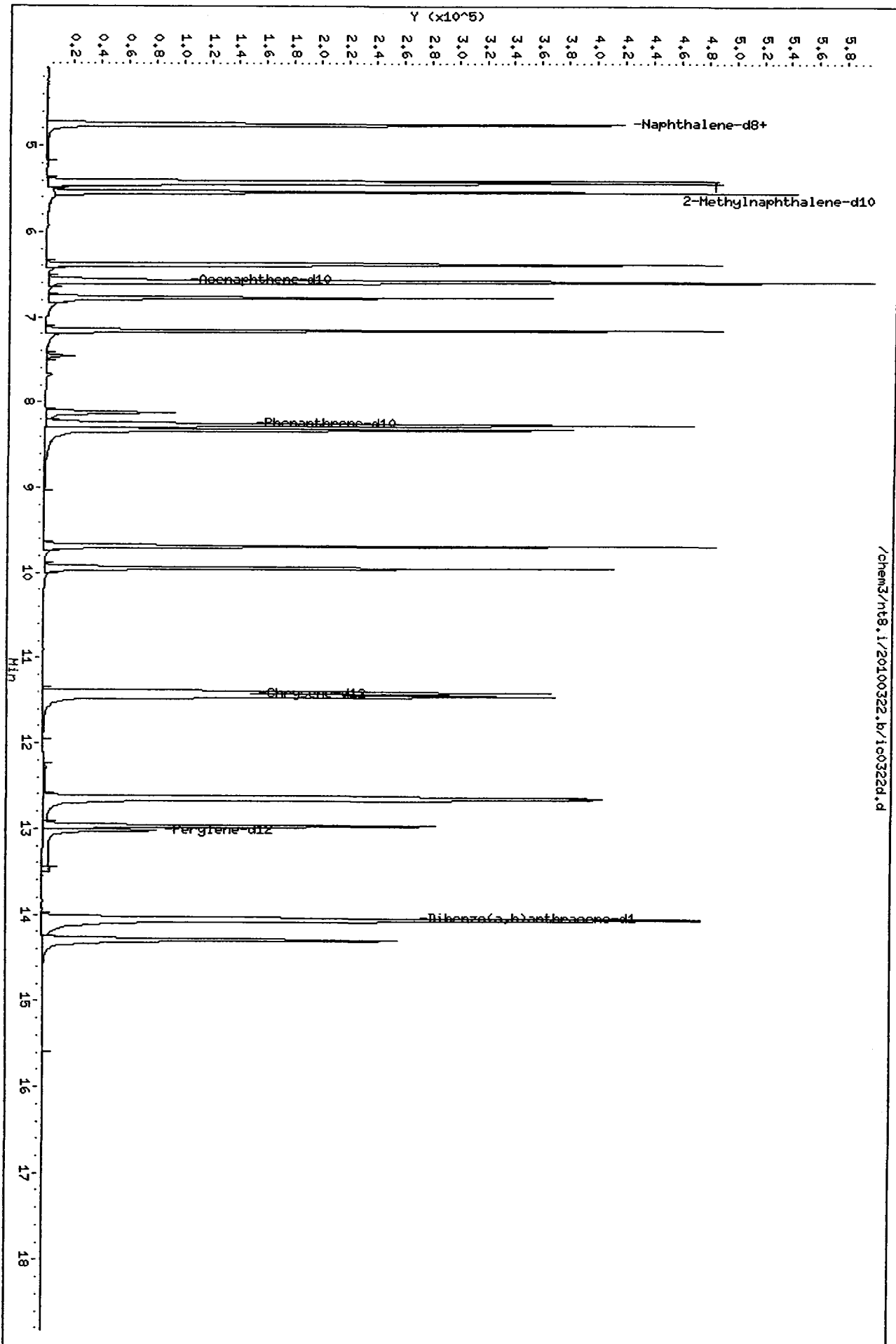
| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 215378 | -1.57 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 114294 | -4.31 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 177085 | -3.48 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 123272 | 1.32 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 106029 | 3.75 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 0.00 |

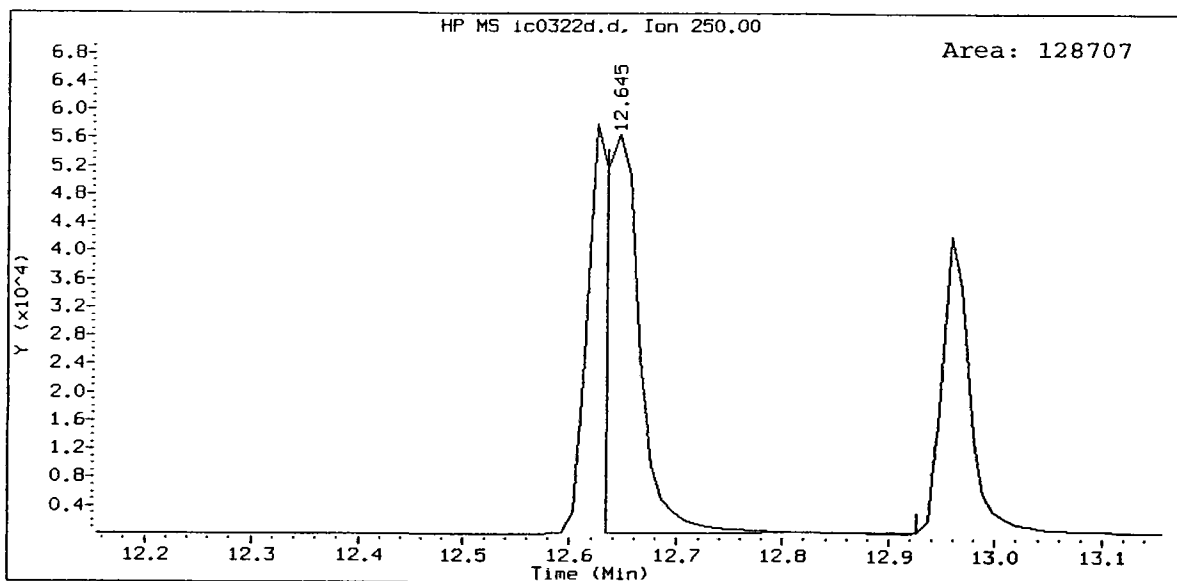
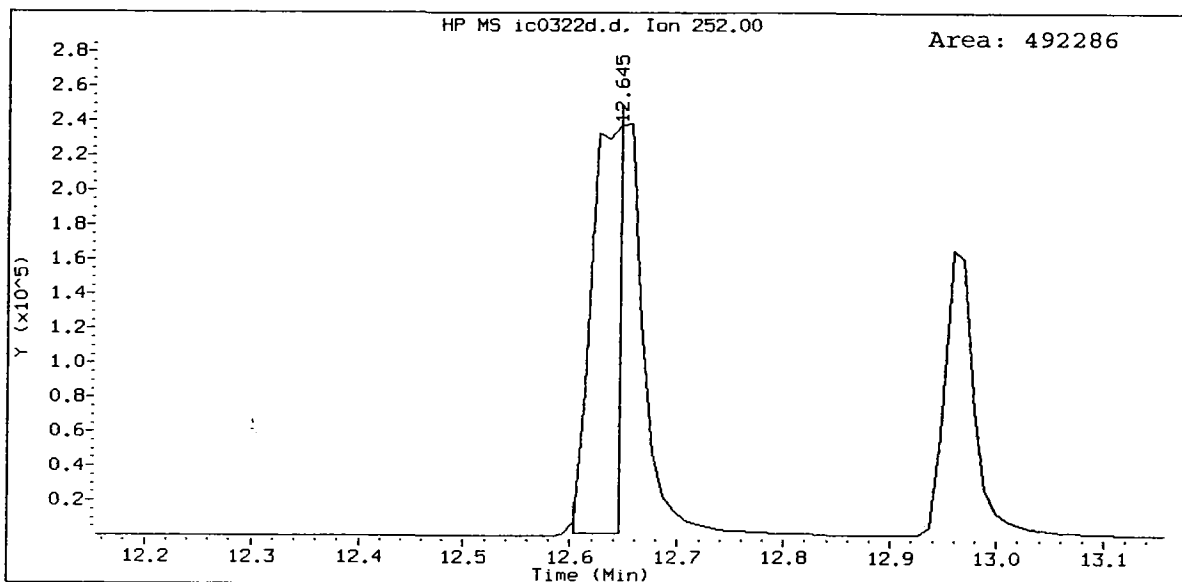
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID:
Sample Info: 100322D
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25



/chem3/nt8.i/20100322.b/100322d.d



Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322e.d
 Lab Smp Id: IC0322E
 Inj Date : 22-MAR-2010 17:12
 Operator : VTS
 Smp Info : IC0322E
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 17:12
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322e.d
 Calibration Sample, Level: 3
 Compound Sublist: pnalnm.sub

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 | AMOUNTS | |
|------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | | 4.742 | 4.742 | (1.000) | 203071 | 200.000 | |
| 5 Naphthalene | 128 | | 4.753 | 4.753 | (1.002) | 110367 | 100.000 | 96.1 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | | 5.408 | 5.408 | (1.140) | 62005 | 100.000 | 97.6 |
| 7 2-Methylnaphthalene | 142 | | 5.439 | 5.440 | (1.147) | 67867 | 100.000 | 97.5 |
| 8 1-Methylnaphthalene | 142 | | 5.543 | 5.544 | (1.169) | 67642 | 100.000 | 94.8 |
| 10 Acenaphthylene | 152 | | 6.379 | 6.379 | (0.972) | 99612 | 100.000 | 94.7 |
| * 11 Acenaphthene-d10 | 164 | | 6.560 | 6.561 | (1.000) | 109309 | 200.000 | |
| 12 Acenaphthene | 153 | | 6.585 | 6.585 | (1.004) | 61731 | 100.000 | 93.2 |
| 14 Dibenzofuran | 168 | | 6.778 | 6.778 | (1.033) | 80421 | 100.000 | 90.0 |
| 15 Fluorene | 166 | | 7.153 | 7.153 | (1.090) | 66223 | 100.000 | 94.5 |
| * 18 Phenanthrene-d10 | 188 | | 8.241 | 8.241 | (1.000) | 165597 | 200.000 | |
| 19 Phenanthrene | 178 | | 8.265 | 8.265 | (1.003) | 89231 | 100.000 | 94.7 |
| 20 Anthracene | 178 | | 8.325 | 8.313 | (1.010) | 109437 | 100.000 | 98.9 |
| 24 Fluoranthene | 202 | | 9.680 | 9.680 | (1.175) | 90624 | 100.000 | 94.5 |
| 25 Pyrene | 202 | | 9.946 | 9.946 | (1.207) | 93475 | 100.000 | 94.3 |
| 28 Benzo(a)anthracene | 228 | | 11.399 | 11.399 | (1.000) | 59839 | 100.000 | 97.1 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 103283 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 91613 | 100.000 | 102 |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (1.000) | 67198 | 100.000 | 91.9(M) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (0.971) | 93379 | 100.000 | 92.9(M) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (1.000) | 58351 | 100.000 | 91.5 |
| * 35 Perylene-d12 | 264 | 13.030 | 13.020 | (1.000) | 95294 | 200.000 | (M) |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.055 | 14.055 | (1.000) | 77939 | 100.000 | 94.1 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.043 | 14.043 | (1.000) | 46005 | 100.000 | 94.6 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.067 | 14.067 | (1.000) | 61523 | 100.000 | 93.5 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.000) | 70303 | 100.000 | 95.7 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322e.d
 Lab Smp Id: IC0322E
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 203071 | -7.19 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 109309 | -8.48 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 165597 | -9.75 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 103283 | -15.11 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 95294 | -6.75 |

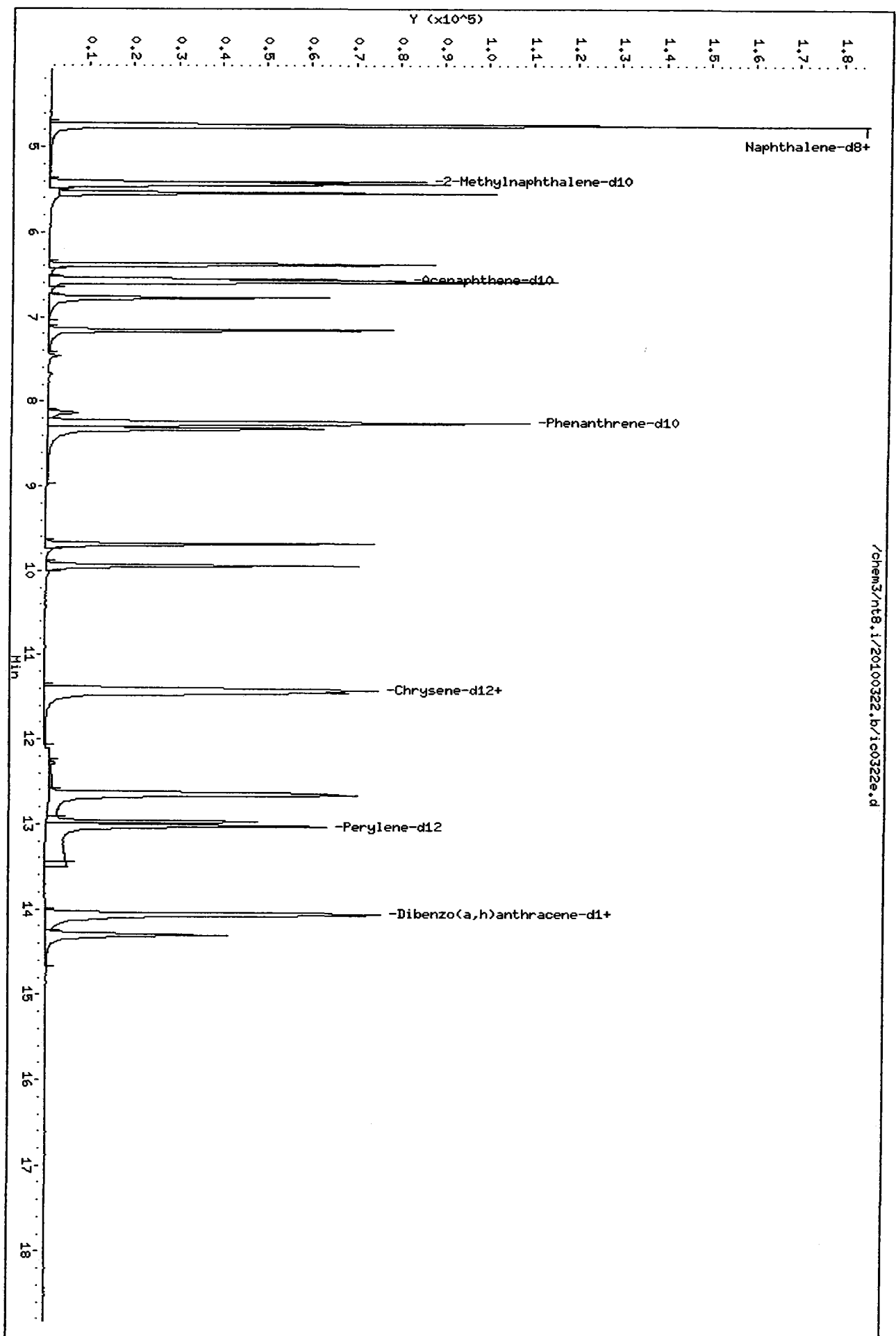
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | -0.01 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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.

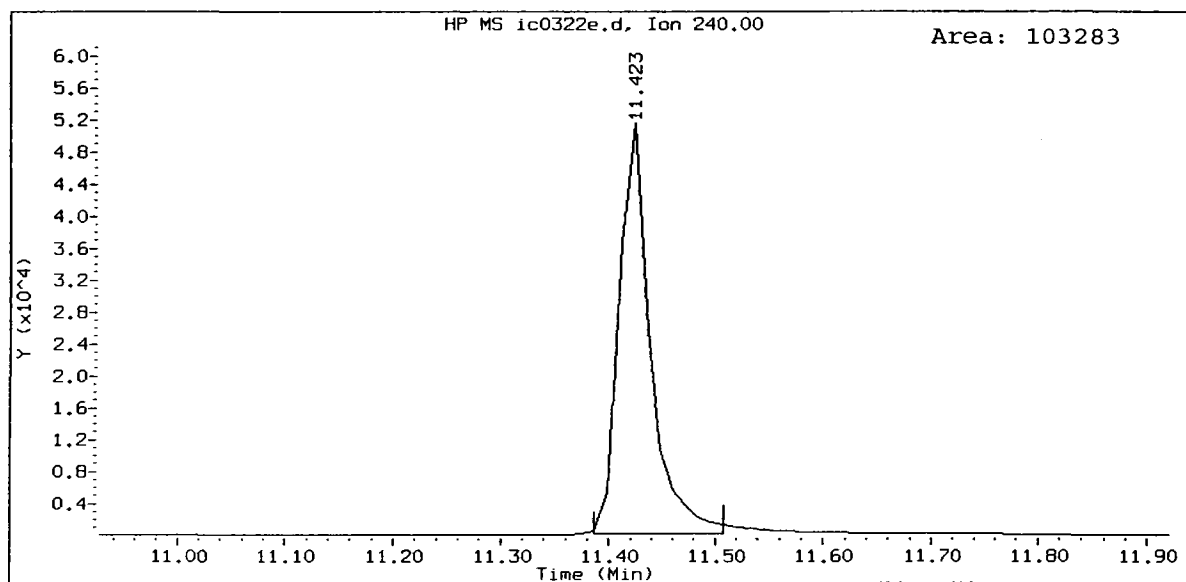
Data File: /chem3/nt8.i/20100322.b/i0322e.d
Date : 22-MAR-2010 17:12

Client ID:
Sample Info: IC0322E
Volume Injected (uL): 2.0
Column phase: ZB-5

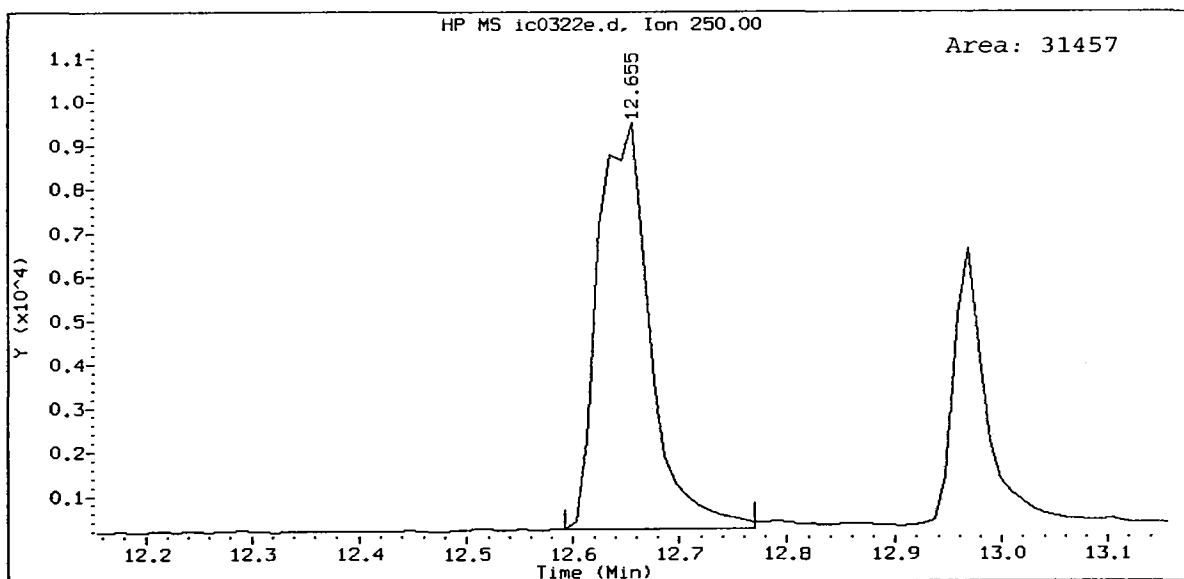
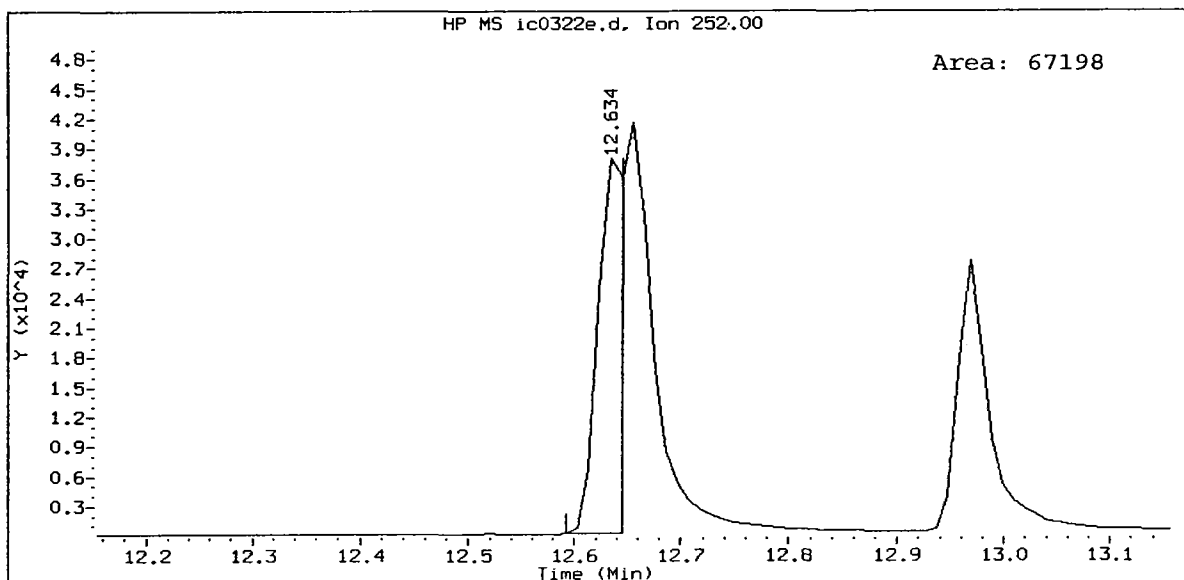
Instrument: nt8.i
Operator: VTS
Column diameter: 0.25



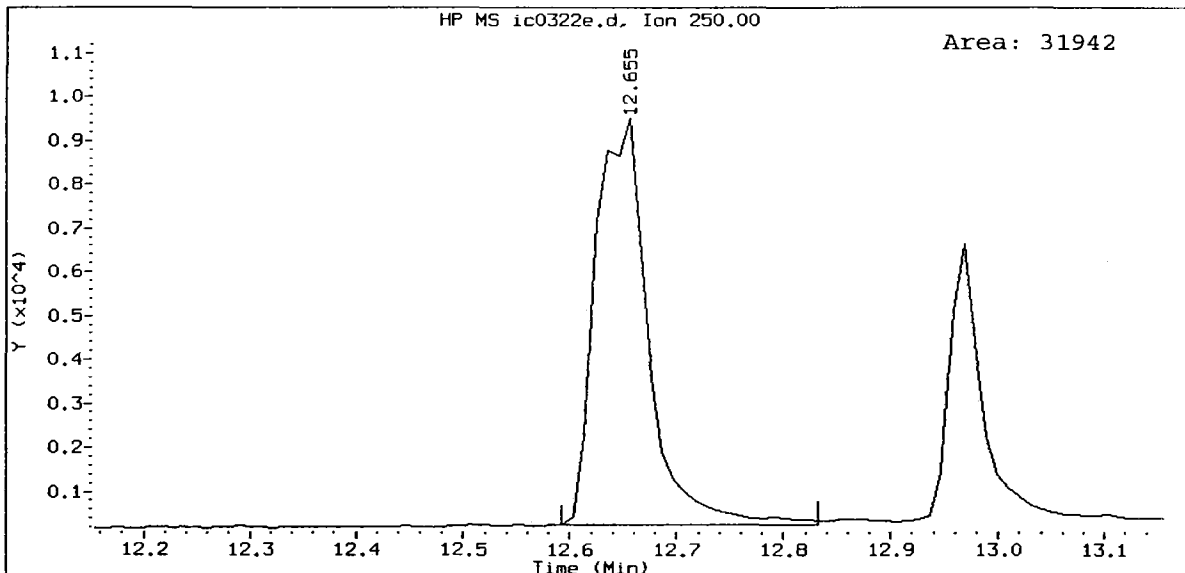
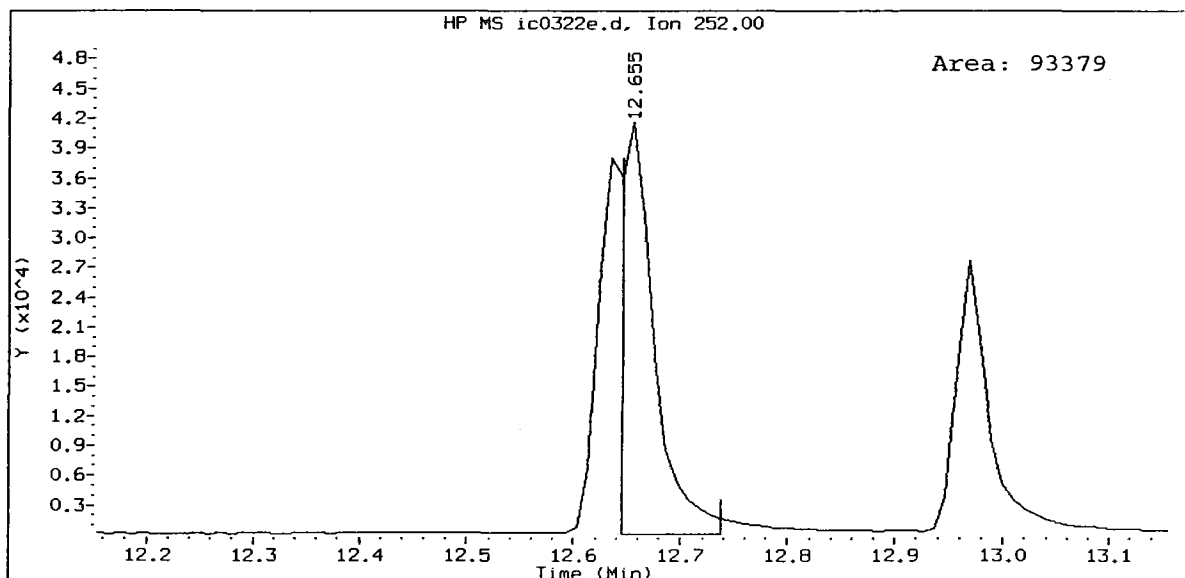
IC0322E, /chem3/nt8.i/20100322.b/ic0322e.d
Chrysene-d12 Amount: 200.00



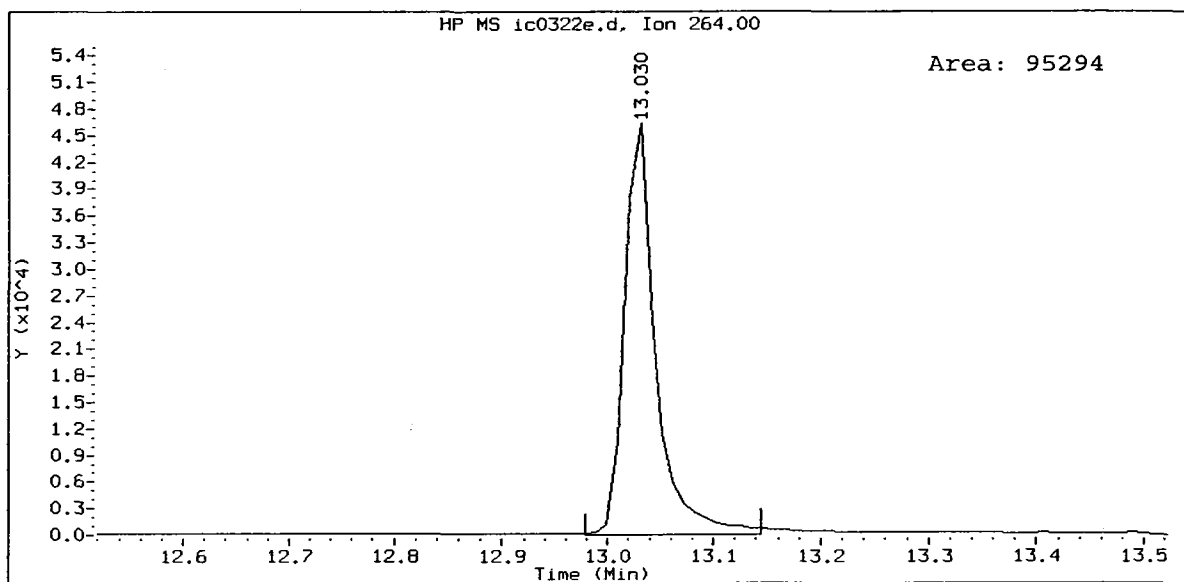
IC0322E, /chem3/nt8.i/20100322.b/ic0322e.d
Benzo(b)fluoranthene Amount: 91.92



IC0322E, /chem3/nt8.i/20100322.b/ic0322e.d
Benzo(k)fluoranthene Amount: 92.90



IC0322E, /chem3/nt8.i/20100322.b/ic0322e.d
Perylene-d12 Amount: 200.00



YZ 3/24/10

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322f.d
 Lab Smp Id: IC0322F
 Inj Date : 22-MAR-2010 17:35
 Operator : VTS
 Smp Info : IC0322F
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 17:35
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322f.d
 Calibration Sample, Level: 2
 Compound Sublist: pna1mn.sub

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 | AMOUNTS | |
|------------------------------|-----------|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 196247 | 200.000 | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 58438 | 50.0000 | 52.7 (M) |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 33462 | 50.0000 | 54.5 |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 | (1.147) | 34751 | 50.0000 | 51.7 |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 | (1.169) | 37289 | 50.0000 | 54.1 |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 52221 | 50.0000 | 51.4 |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 105666 | 200.000 | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 33669 | 50.0000 | 52.6 |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 45327 | 50.0000 | 52.5 |
| 15 Fluorene | 166 | 7.165 | 7.153 | (1.092) | 32895 | 50.0000 | 48.6 |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 155775 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 44343 | 50.0000 | 50.0 |
| 20 Anthracene | 178 | 8.325 | 8.313 | (1.010) | 56253 | 50.0000 | 54.0 |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 44991 | 50.0000 | 49.9 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 47002 | 50.0000 | 50.4 |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (1.000) | 28374 | 50.0000 | 46.1 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 103111 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 49132 | 50.0000 | 54.8 |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 29476 | 50.0000 | 42.8(M) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (0.971) | 48270 | 50.0000 | 50.9(M) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (0.995) | 28745 | 50.0000 | 47.8 |
| * 35 Perylene-d12 | 264 | 13.031 | 13.020 | (1.000) | 89821 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.055 | 14.055 | (1.079) | 38369 | 50.0000 | 49.2 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.043 | 14.043 | (1.078) | 23214 | 50.0000 | 50.6 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.067 | 14.067 | (1.080) | 30447 | 50.0000 | 49.1 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.097) | 33828 | 50.0000 | 48.8 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322f.d
 Lab Smp Id: IC0322F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59

Level: LOW
 Sample Type: WATER

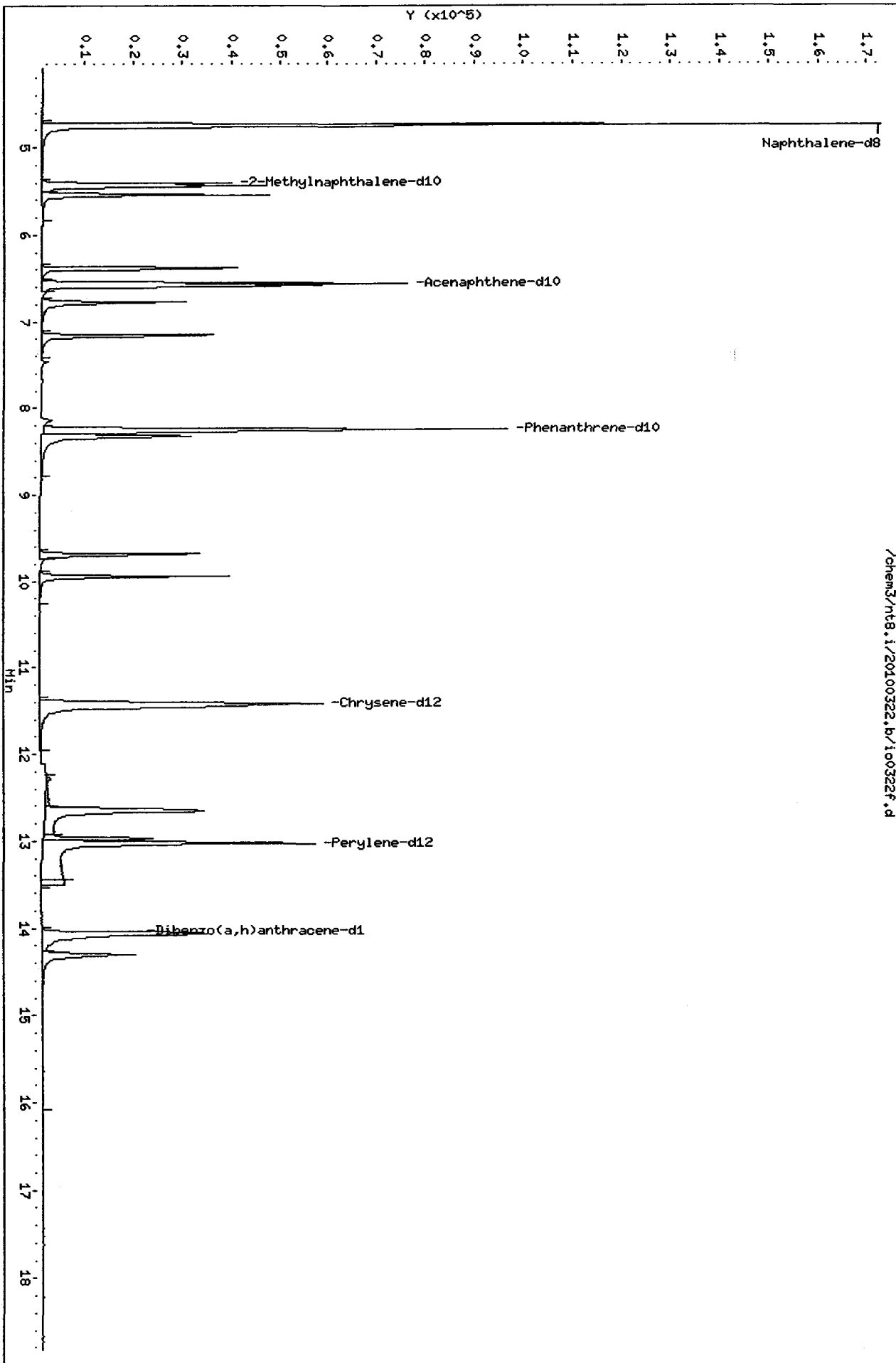
Test Mode: Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 196247 | -10.31 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 105666 | -11.53 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 155775 | -15.10 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 103111 | -15.25 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 89821 | -12.11 |

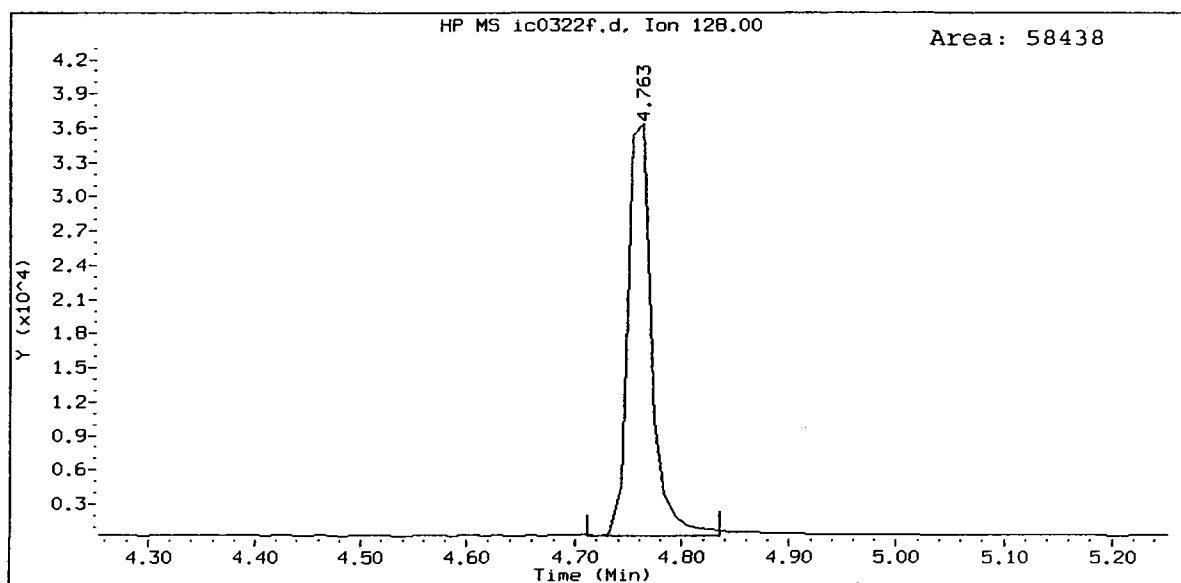
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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.

/chem3/nt8.i/20100322.b/100322f.d

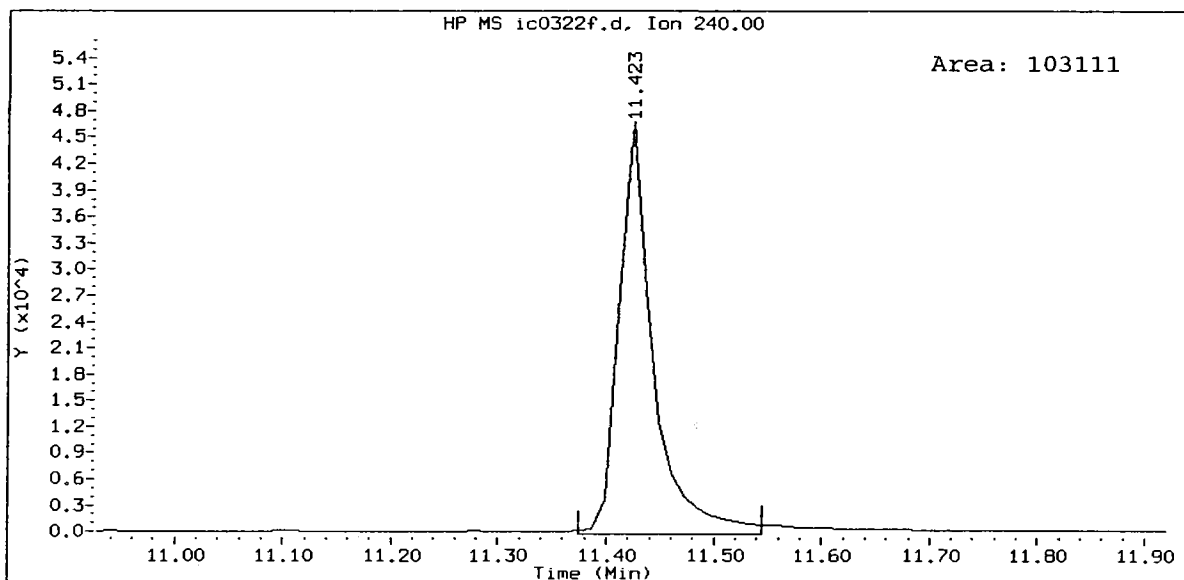


IC0322F, /chem3/nt8.i/20100322.b/ic0322f.d
Naphthalene Amount: 52.66

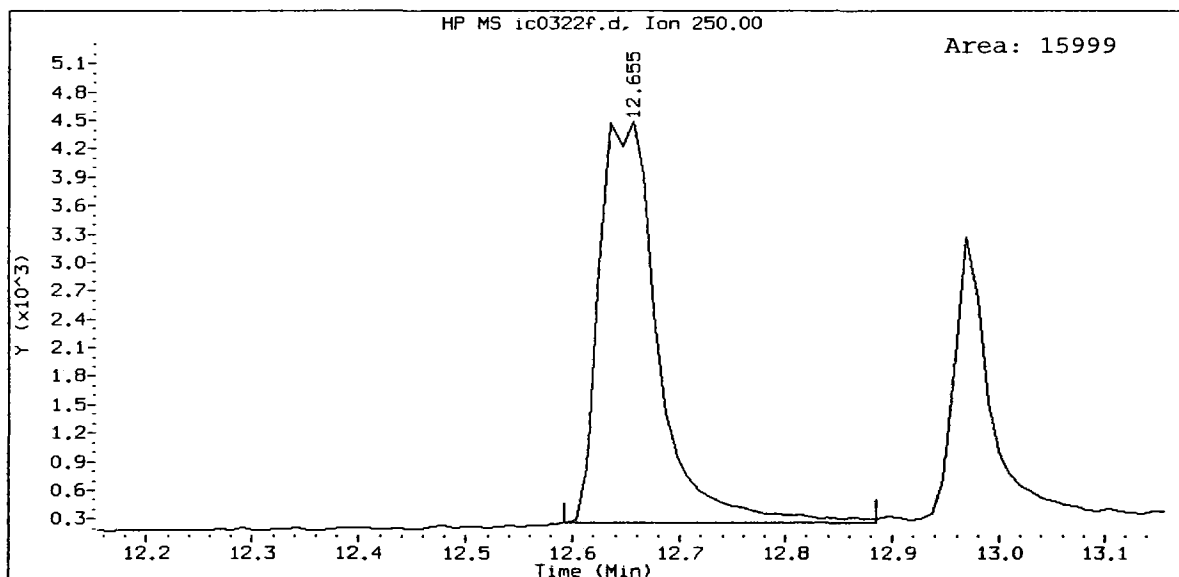
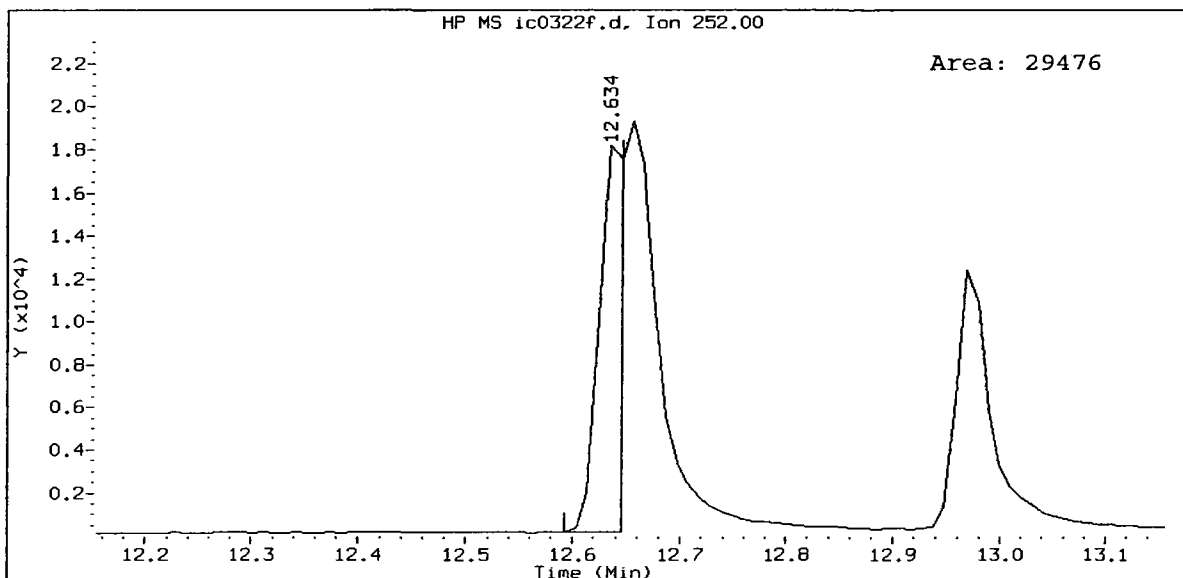


QN21 : 00167

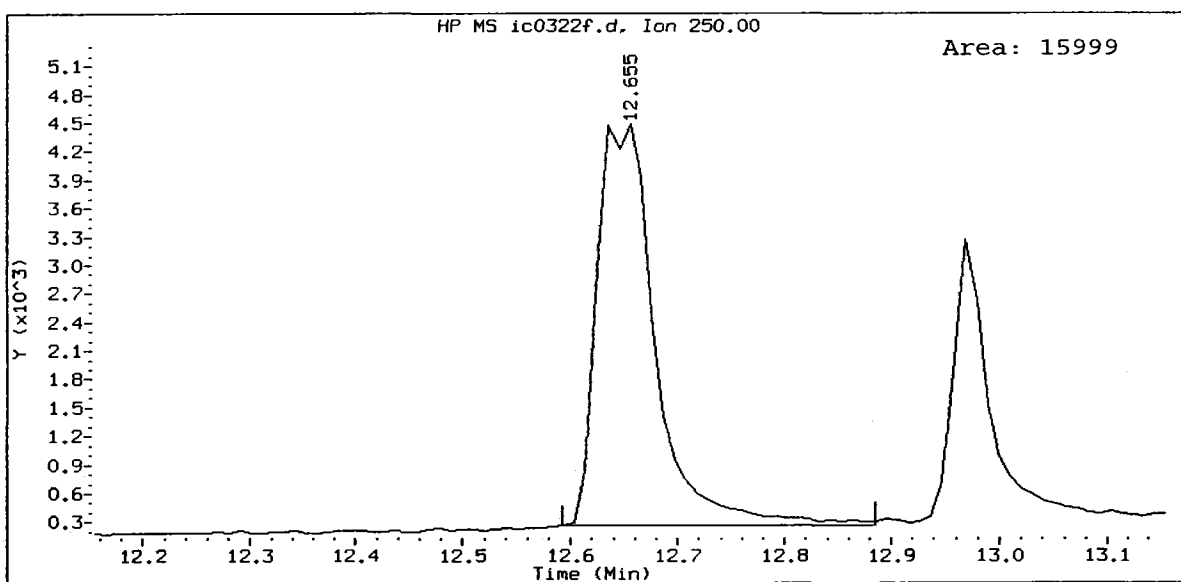
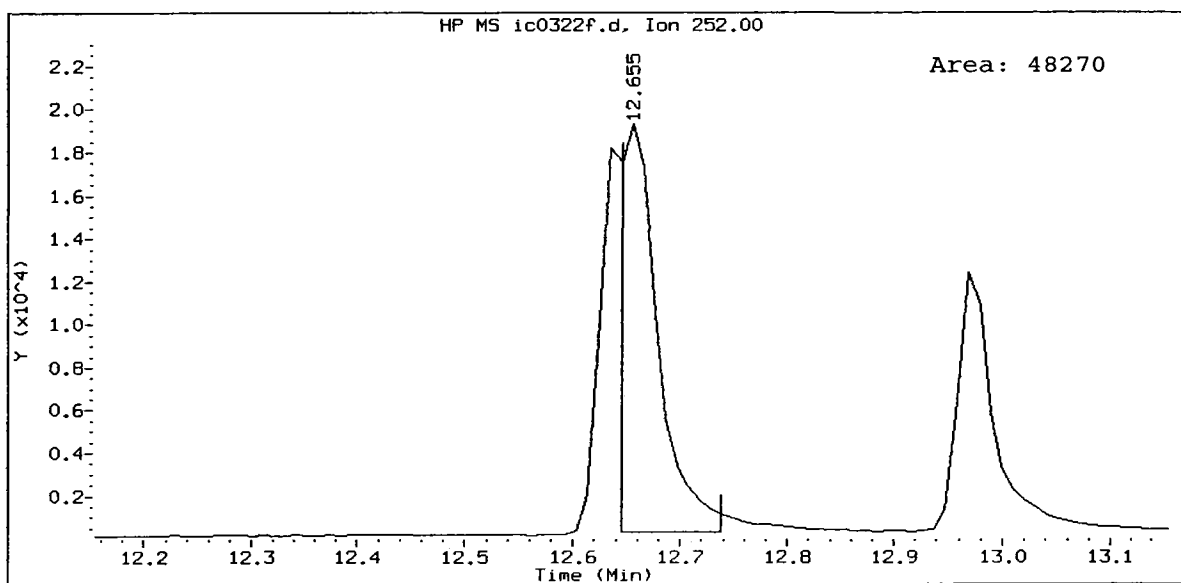
IC0322F, /chem3/nt8.i/20100322.b/ic0322f.d
Chrysene-d12 Amount: 200.00



IC0322F, /chem3/nt8.i/20100322.b/ic0322f.d
Benzo(b)fluoranthene Amount: 42.78



IC0322F, /chem3/nt8.i/20100322.b/ic0322f.d
Benzo(k)fluoranthene Amount: 50.95



Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt8.i Injection Date: 22-MAR-2010 17:59
 Lab File ID: ic0322icv.d Init. Cal. Date(s): 22-MAR-2010 22-MAR-2010
 Analysis Type: Init. Cal. Times: 15:37 17:35
 Lab Sample ID: IC0322ICV Quant Type: ISTD
 Method: /chem3/nt8.i/20100322.b/lowsim.m

| COMPOUND | RRF / AMOUNT | RF250 | MIN | | MAX | | CURVE TYPE |
|----------------------------------|--------------|---------|-------|-------------|-------------|----------|------------|
| | | | RRF | %D / %DRIFT | %D / %DRIFT | | |
| 5 Naphthalene | 1.13086 | 1.07188 | 0.010 | -5.21566 | 20.00000 | Averaged | |
| \$ 6 2-Methylnaphthalene-d10 | 0.62563 | ++++ | 0.010 | ++++ | 20.00000 | Averaged | <- |
| 7 2-Methylnaphthalene | 0.68540 | 0.66402 | 0.010 | -3.12005 | 20.00000 | Averaged | |
| 8 1-Methylnaphthalene | 0.70296 | 0.62711 | 0.010 | -10.78952 | 20.00000 | Averaged | |
| 10 Acenaphthylene | 1.92463 | 1.84810 | 0.010 | -3.97665 | 20.00000 | Averaged | |
| 12 Acenaphthene | 1.21236 | 1.12190 | 0.010 | -7.46159 | 20.00000 | Averaged | |
| 14 Dibenzofuran | 1.63567 | 1.61780 | 0.010 | -1.09224 | 20.00000 | Averaged | |
| 15 Fluorene | 1.28162 | 1.28541 | 0.010 | 0.29596 | 20.00000 | Averaged | |
| 19 Phenanthrene | 1.13756 | 1.05790 | 0.010 | -7.00293 | 20.00000 | Averaged | |
| 20 Anthracene | 1.33626 | 1.16976 | 0.010 | -12.46021 | 20.00000 | Averaged | |
| 24 Fluoranthene | 1.15871 | 1.02583 | 0.010 | -11.46848 | 20.00000 | Averaged | |
| 25 Pyrene | 1.19703 | 1.08690 | 0.010 | -9.20048 | 20.00000 | Averaged | |
| 28 Benzo(a)anthracene | 1.19325 | 1.16664 | 0.010 | -2.22993 | 20.00000 | Averaged | |
| 30 Chrysene | 1.73839 | 1.61602 | 0.010 | -7.03960 | 20.00000 | Averaged | |
| 32 Benzo(b)fluoranthene | 1.53422 | 3.10943 | 0.010 | 103 | 20.00000 | Averaged | <- |
| 33 Benzo(k)fluoranthene | 2.10968 | 3.10943 | 0.010 | 47.38849 | 20.00000 | Averaged | <- |
| 34 Benzo(a)pyrene | 1.33884 | 1.37486 | 0.010 | 2.69050 | 20.00000 | Averaged | |
| 37 Indeno(1,2,3-cd)pyrene | 1.73763 | 1.68606 | 0.010 | -2.96800 | 20.00000 | Averaged | |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 1.02063 | ++++ | 0.010 | ++++ | 20.00000 | Averaged | <- |
| 38 Dibenzo(a,h)anthracene | 1.38053 | 1.32571 | 0.010 | -3.97094 | 20.00000 | Averaged | |
| 39 Benzo(g,h,i)perylene | 1.54224 | 1.54178 | 0.010 | -0.03019 | 20.00000 | Averaged | |

Analytical Resources, Inc.

VE 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322icv.d
 Lab Smp Id: IC0322ICV
 Inj Date : 22-MAR-2010 17:59
 Operator : VTS
 Smp Info : IC0322ICV
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 15:22 yev
 Cal Date : 22-MAR-2010 17:35
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322f.d
 Continuing Calibration Sample
 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 | | 4.742 | 4.742 | (1.000) | 200151 | 200.000 | | |
| 5 Naphthalene | 128 | | 4.753 | 4.753 | (1.002) | 268172 | 250.000 | 237 | |
| \$ 6 2-Methylnaphthalene-d10 | 152 | | Compound Not Detected. | | | | | | |
| 7 2-Methylnaphthalene | 142 | | 5.440 | 5.440 | (1.147) | 166130 | 250.000 | 242 | |
| 8 1-Methylnaphthalene | 142 | | 5.544 | 5.544 | (1.169) | 156896 | 250.000 | 223 | |
| 10 Acenaphthylene | 152 | | 6.379 | 6.379 | (0.972) | 245707 | 250.000 | 240 | |
| * 11 Acenaphthene-d10 | 164 | | 6.561 | 6.561 | (1.000) | 106361 | 200.000 | | |
| 12 Acenaphthene | 153 | | 6.585 | 6.585 | (1.004) | 149158 | 250.000 | 231 | |
| 14 Dibenzofuran | 168 | | 6.778 | 6.778 | (1.033) | 215089 | 250.000 | 247 | |
| 15 Fluorene | 166 | | 7.153 | 7.153 | (1.090) | 170897 | 250.000 | 251 | |
| * 18 Phenanthrene-d10 | 188 | | 8.241 | 8.241 | (1.000) | 169703 | 200.000 | | |
| 19 Phenanthrene | 178 | | 8.265 | 8.265 | (1.003) | 224410 | 250.000 | 232 | |
| 20 Anthracene | 178 | | 8.313 | 8.313 | (1.009) | 248140 | 250.000 | 219 | |
| 24 Fluoranthene | 202 | | 9.680 | 9.680 | (1.175) | 217607 | 250.000 | 221 | |
| 25 Pyrene | 202 | | 9.946 | 9.946 | (1.207) | 230563 | 250.000 | 227 | |
| 28 Benzo(a)anthracene | 228 | | 11.399 | 11.399 | (0.998) | 154479 | 250.000 | 244 | |
| * 29 Chrysene-d12 | 240 | | 11.423 | 11.423 | (1.000) | 105931 | 200.000 | | |
| 30 Chrysene | 228 | | 11.447 | 11.447 | (1.002) | 213983 | 250.000 | 232 | |
| 32 Benzo(b)fluoranthene | 252 | | 12.655 | 12.655 | (1.000) | 335702 | 250.000 | 507 218 | |
| 33 Benzo(k)fluoranthene | 252 | | 12.655 | 12.655 | (1.000) | 335702 | 250.000 | 368 218 | |
| 34 Benzo(a)pyrene | 252 | | 12.968 | 12.968 | (1.000) | 148433 | 250.000 | 257 | |
| * 35 Perylene-d12 | 264 | | 13.020 | 13.020 | (1.000) | 86370 | 200.000 | (M) | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | | 14.055 | 14.055 | (1.000) | 182031 | 250.000 | 243 | |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | | Compound Not Detected. | | | | | | |
| 38 Dibenzo(a,h)anthracene | 278 | | 14.067 | 14.067 | (1.000) | 143127 | 250.000 | 240 | |
| 39 Benzo(g,h,i)perylene | 276 | | 14.297 | 14.297 | (1.000) | 166454 | 250.000 | 250 | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322icv.d
 Lab Smp Id: IC0322ICV
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 15:37

Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 200151 | -8.53 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 106361 | -10.95 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 169703 | -7.51 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 105931 | -12.94 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 86370 | -15.49 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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/nt8.1/20100322.b/ic03221cv.d
Date: 22-MAR-2010 17:59

Client ID:

Sample Info: IC03221CV

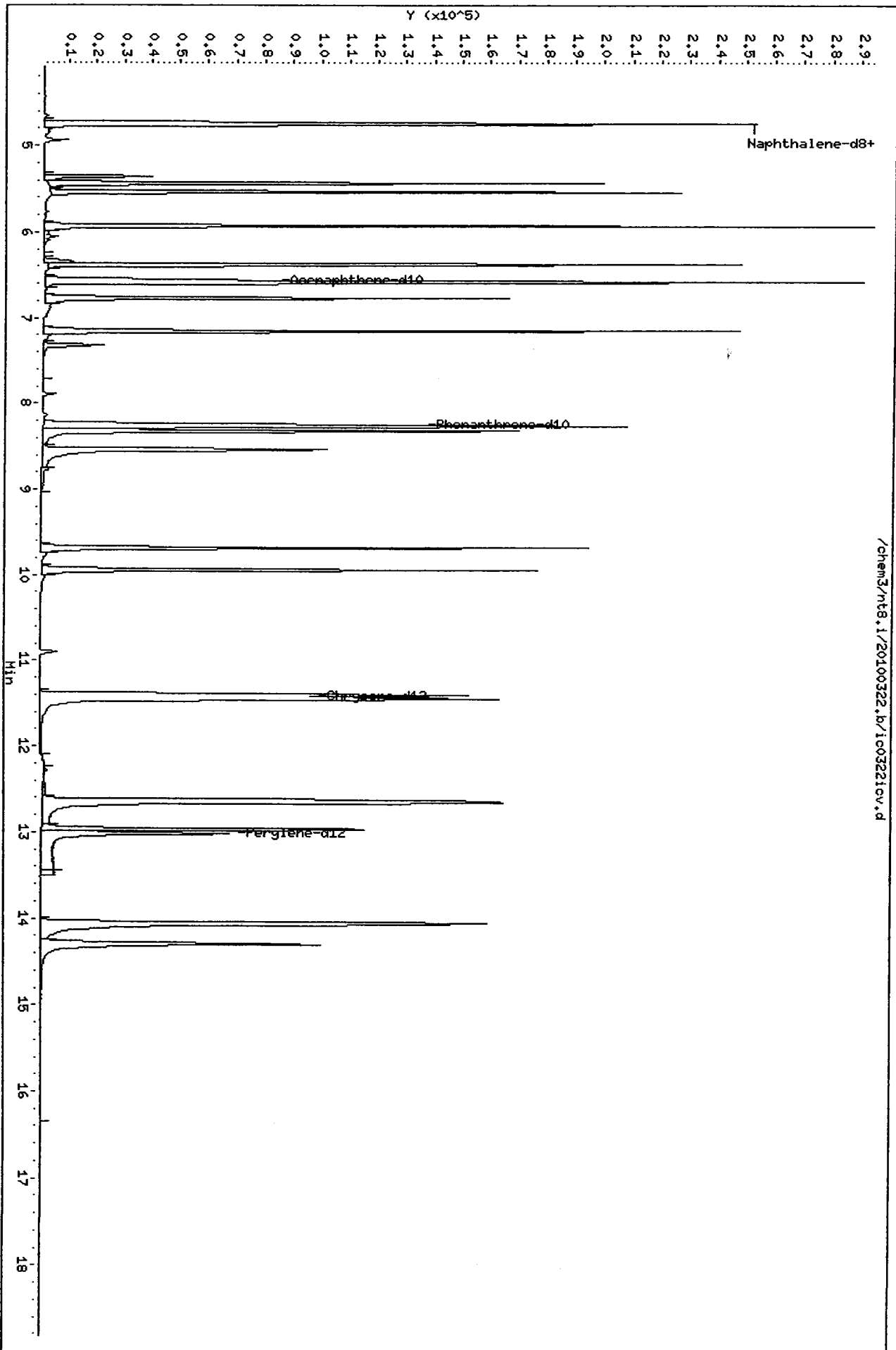
Column phase: ZB-5

Instrument: nt8.i

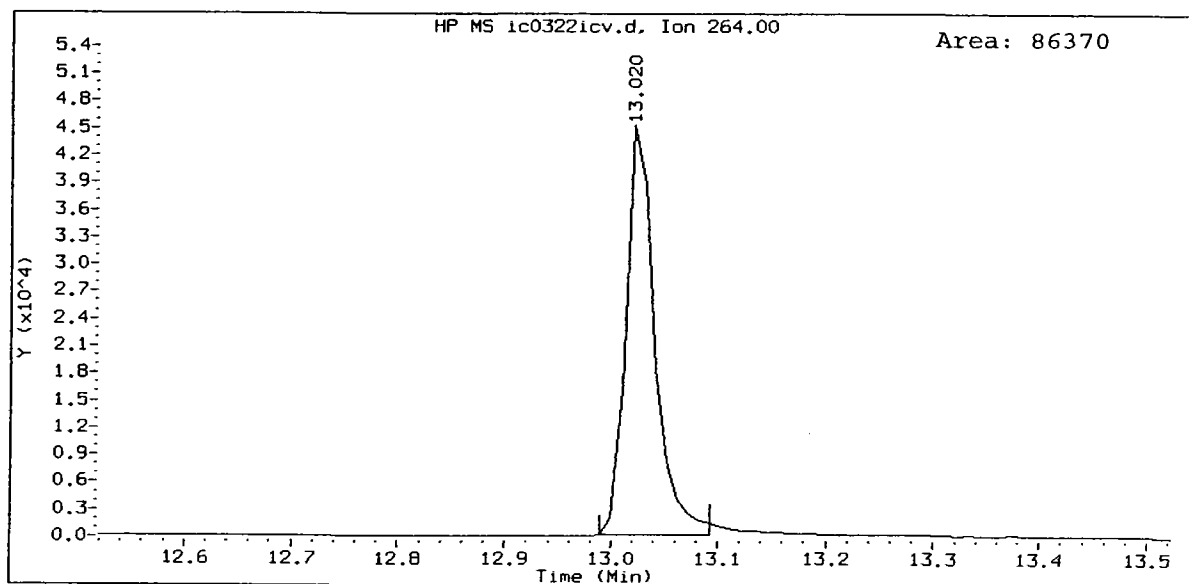
Operator: VTS

Column diameter: 0.25

/chem3/nt8.1/20100322.b/ic03221cv.d



IC0322ICV, /chem3/nt8.i/20100322.b/ic0322icv.d
Perylene-d12 Amount: 200.00



QN21 : 00176

7B
SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QN21

Project: LORA LAKES APARTMENTS

Instrument ID: NT8

Cont. Calib. Date: 03/22/10

Init. Calib. Date: 03/22/10

Cont. Calib. Time: 1537

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Naphthalene | 1.131 | 1.088 | 0.700 | AVRG | -3.8 |
| 2-Methylnaphthalene | 0.685 | 0.684 | 0.400 | AVRG | -0.1 |
| Acenaphthylene | 1.924 | 1.862 | 0.900 | AVRG | -3.2 |
| Acenaphthene | 1.212 | 1.160 | 0.900 | AVRG | -4.3 |
| Dibenzofuran | 1.636 | 1.511 | 0.800 | AVRG | -7.6 |
| Fluorene | 1.282 | 1.253 | 0.900 | AVRG | -2.3 |
| Phenanthrene | 1.138 | 1.118 | 0.700 | AVRG | -1.8 |
| Anthracene | 1.336 | 1.282 | 0.700 | AVRG | -4.0 |
| Fluoranthene | 1.158 | 1.122 | 0.600 | AVRG | -3.1 |
| Pyrene | 1.197 | 1.162 | 0.600 | AVRG | -2.9 |
| Benzo (a) anthracene | 1.193 | 1.230 | 0.800 | AVRG | 3.1 |
| Chrysene | 1.738 | 1.590 | 0.700 | AVRG | -8.5 |
| Benzo (b) fluoranthene | 1.534 | 1.817 | 0.700 | AVRG | 18.4 |
| Benzo (k) fluoranthene | 2.110 | 1.825 | 0.700 | AVRG | -13.5 |
| Benzo (a) pyrene | 1.339 | 1.346 | 0.700 | AVRG | 0.5 |
| Indeno (1,2,3-cd) pyrene | 1.738 | 1.763 | 0.500 | AVRG | 1.4 |
| Dibenzo (a,h) anthracene | 1.380 | 1.427 | 0.400 | AVRG | 3.4 |
| Benzo (g,h,i) perylene | 1.542 | 1.572 | 0.500 | AVRG | 1.9 |
| 1-Methylnaphthalene | 0.703 | 0.684 | 0.010 | AVRG | -2.7 |
| ===== | ===== | ===== | ===== | ===== | ===== |
| 2-Methylnaphthalene-d10 | 0.626 | 0.618 | 0.010 | AVRG | -1.3 |
| Dibenzo (a,h) anthracene-d14 | 1.021 | 1.052 | 0.010 | AVRG | 3.0 |

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

Analytical Resources, Inc.

YZ 3/24/10

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt8.i Injection Date: 22-MAR-2010 15:37
 Lab File ID: ic0322a.d Init. Cal. Date(s): 22-MAR-2010 22-MAR-2010
 Analysis Type: Init. Cal. Times: 15:37 17:35
 Lab Sample ID: IC0322A Quant Type: ISTD
 Method: /chem3/nt8.i/20100322.b/lowsim.m

| COMPOUND | RRF / AMOUNT | RF250 | MIN | | MAX | | CURVE TYPE |
|----------------------------------|--------------|---------|-------|-------------|-------------|----------|------------|
| | | | RRF | %D / %DRIFT | %D / %DRIFT | | |
| 5 Naphthalene | 1.13086 | 1.08843 | 0.010 | -3.75219 | 20.00000 | Averaged | |
| \$ 6 2-Methylnaphthalene-d10 | 0.62563 | 0.61818 | 0.010 | -1.19169 | 20.00000 | Averaged | |
| 7 2-Methylnaphthalene | 0.68540 | 0.68378 | 0.010 | -0.23747 | 20.00000 | Averaged | |
| 8 1-Methylnaphthalene | 0.70296 | 0.68406 | 0.010 | -2.68741 | 20.00000 | Averaged | |
| 10 Acenaphthylene | 1.92463 | 1.86188 | 0.010 | -3.26083 | 20.00000 | Averaged | |
| 12 Acenaphthene | 1.21236 | 1.16042 | 0.010 | -4.28471 | 20.00000 | Averaged | |
| 14 Dibenzofuran | 1.63567 | 1.51144 | 0.010 | -7.59499 | 20.00000 | Averaged | |
| 15 Fluorene | 1.28162 | 1.25301 | 0.010 | -2.23238 | 20.00000 | Averaged | |
| 19 Phenanthrene | 1.13756 | 1.11793 | 0.010 | -1.72574 | 20.00000 | Averaged | |
| 20 Anthracene | 1.33626 | 1.28224 | 0.010 | -4.04317 | 20.00000 | Averaged | |
| 24 Fluoranthene | 1.15871 | 1.12215 | 0.010 | -3.15527 | 20.00000 | Averaged | |
| 25 Pyrene | 1.19703 | 1.16228 | 0.010 | -2.90352 | 20.00000 | Averaged | |
| 28 Benzo(a)anthracene | 1.19325 | 1.22955 | 0.010 | 3.04199 | 20.00000 | Averaged | |
| 30 Chrysene | 1.73839 | 1.59047 | 0.010 | -8.50946 | 20.00000 | Averaged | |
| 32 Benzo(b)fluoranthene | 1.53422 | 1.81698 | 0.010 | 18.43015 | 20.00000 | Averaged | |
| 33 Benzo(k)fluoranthene | 2.10968 | 1.82464 | 0.010 | -13.51119 | 20.00000 | Averaged | |
| 34 Benzo(a)pyrene | 1.33884 | 1.34603 | 0.010 | 0.53719 | 20.00000 | Averaged | |
| 37 Indeno(1,2,3-cd)pyrene | 1.73763 | 1.76316 | 0.010 | 1.46917 | 20.00000 | Averaged | |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 1.02063 | 1.05235 | 0.010 | 3.10770 | 20.00000 | Averaged | |
| 38 Dibenzo(a,h)anthracene | 1.38053 | 1.42721 | 0.010 | 3.38144 | 20.00000 | Averaged | |
| 39 Benzo(g,h,i)perylene | 1.54224 | 1.57209 | 0.010 | 1.93508 | 20.00000 | Averaged | |

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/ic0322a.d
 Lab Smp Id: IC0322A
 Inj Date : 22-MAR-2010 15:37
 Operator : VTS
 Smp Info : IC0322A
 Misc Info :
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 16:28 yev
 Cal Date : 22-MAR-2010 17:35
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: cserv3

Inst ID: nt8.i
 Quant Type: ISTD
 Cal File: ic0322f.d
 Continuing Calibration Sample
 Compound Sublist: pna1mn.sub

| Compounds | QUANT SIG | | | AMOUNTS | | |
|------------------------------------|-----------|--------|----------------|----------|-----------------|----------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 (1.000) | 218805 | 200.000 | |
| 5 Naphthalene | 128 | 4.753 | 4.753 (1.002) | 297692 | 250.000 | 241 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 (1.140) | 169075 | 250.000 | 247 |
| 7 2-Methylnaphthalene | 142 | 5.440 | 5.440 (1.147) | 187017 | 250.000 | 249 |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 (1.169) | 187096 | 250.000 | 243 |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 (0.972) | 277978 | 250.000 | 242 |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 (1.000) | 119440 | 200.000 | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 (1.004) | 173250 | 250.000 | 239 |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 (1.033) | 225658 | 250.000 | 231 |
| 15 Fluorene | 166 | 7.153 | 7.153 (1.090) | 187074 | 250.000 | 244 |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 (1.000) | 183479 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 (1.003) | 256395 | 250.000 | 246 |
| 20 Anthracene | 178 | 8.313 | 8.313 (1.009) | 294079 | 250.000 | 240 |
| 24 Fluoranthene | 202 | 9.680 | 9.680 (1.175) | 257364 | 250.000 | 242 |
| 25 Pyrene | 202 | 9.946 | 9.946 (1.207) | 266567 | 250.000 | 243 |
| 28 Benzo (a) anthracene | 228 | 11.399 | 11.399 (1.000) | 186997 | 250.000 | 258 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 (1.000) | 121669 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 (1.000) | 241888 | 250.000 | 229 |
| 32 Benzo (b) fluoranthene | 252 | 12.634 | 12.634 (1.000) | 232113 | 250.000 | 296 |
| 33 Benzo (k) fluoranthene | 252 | 12.655 | 12.655 (1.000) | 233091 | 250.000 | 216 (M) |
| 34 Benzo (a) pyrene | 252 | 12.968 | 12.968 (1.000) | 171950 | 250.000 | 251 |
| * 35 Perylene-d12 | 264 | 13.031 | 13.031 (1.000) | 102197 | 200.000 | (M) |
| 37 Indeno (1,2,3-cd) pyrene | 276 | 14.043 | 14.043 (1.000) | 225237 | 250.000 | 254 |
| \$ 36 Dibenzo (a,h) anthracene-d14 | 292 | 14.031 | 14.031 (1.000) | 134434 | 250.000 | 258 |
| 38 Dibenzo (a,h) anthracene | 278 | 14.067 | 14.067 (1.000) | 182321 | 250.000 | 258 |
| 39 Benzo (g,h,i) perylene | 276 | 14.297 | 14.297 (1.000) | 200828 | 250.000 | 255 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: ic0322a.d
 Lab Smp Id: IC0322A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info:

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 218805 | 0.00 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 119440 | 0.00 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 183479 | 0.00 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 121669 | 0.00 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 102197 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.03 | 12.53 | 13.53 | 13.03 | 0.00 |

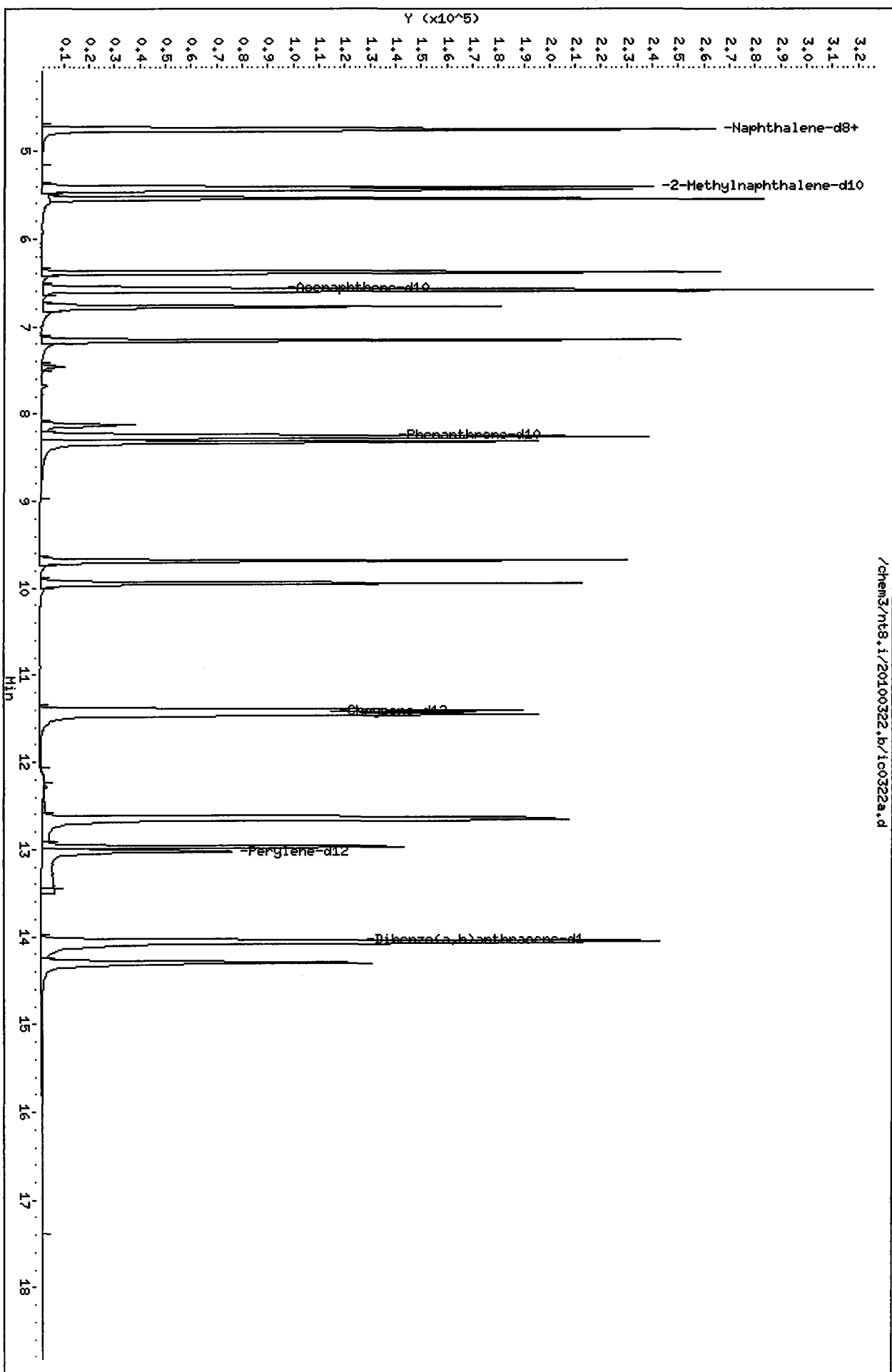
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

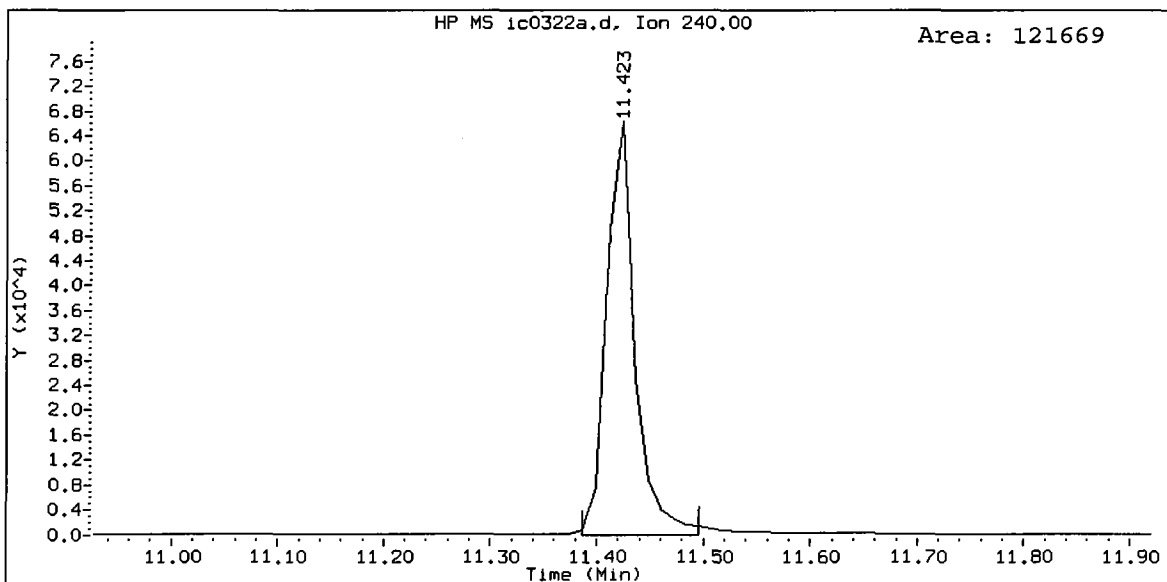
Data File: /chem3/nt8.i/20100322.b/ic0322a.d
Date : 22-MAR-2010 15:37

Client ID:
Sample Info: IC0322A

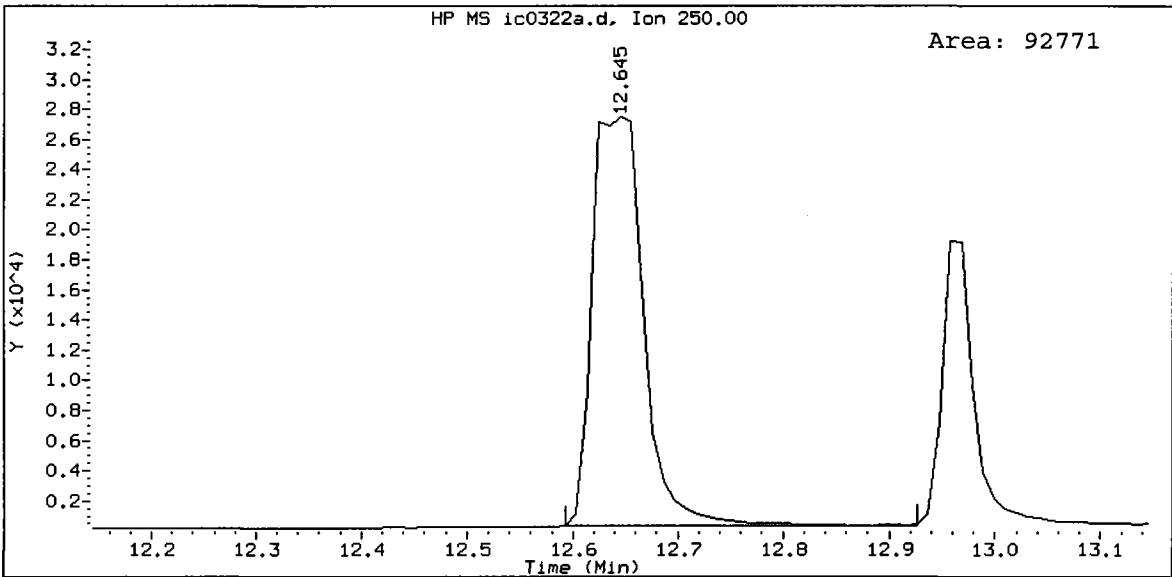
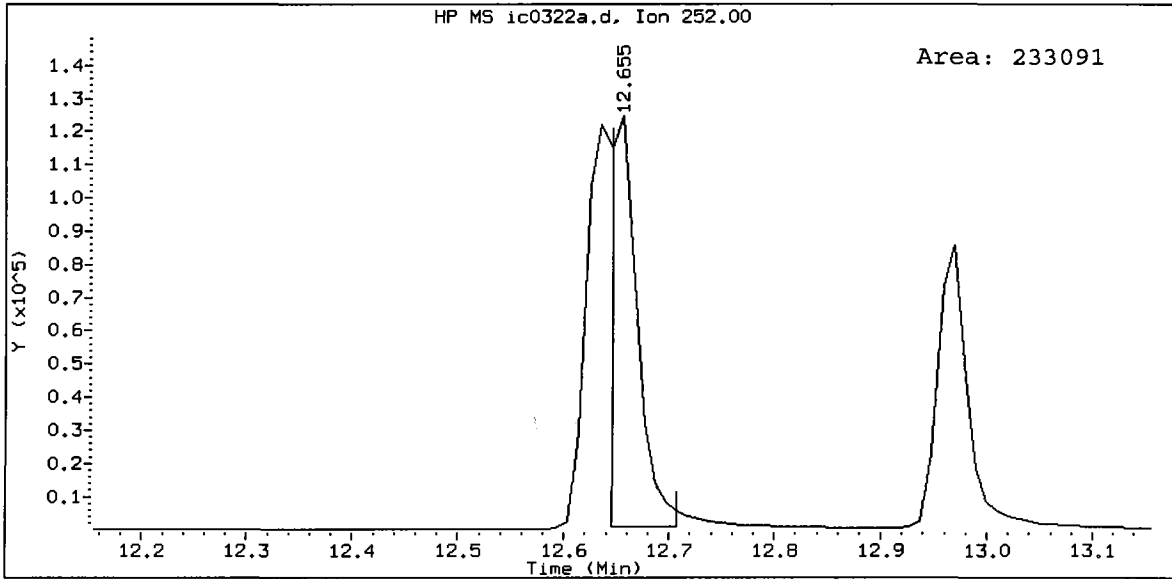
Column Phaset: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25

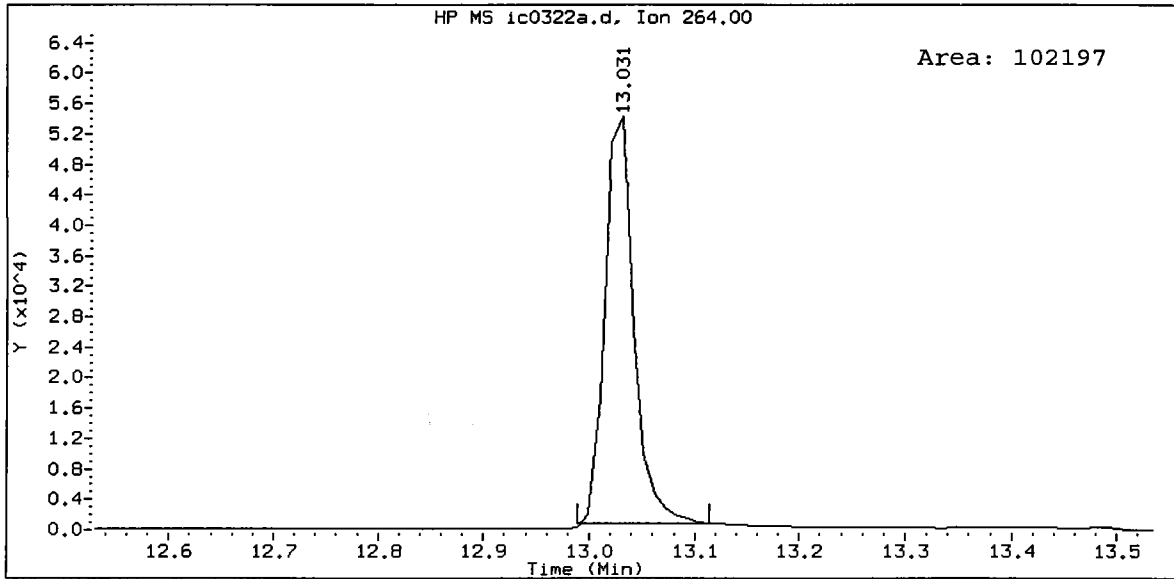




IC0322A, /chem3/nt8.i/20100322.b/ic0322a.d
Benzo(k)fluoranthene Amount: 216.22



IC0322A, /chem3/nt8.i/20100322.b/ic0322a.d
Perylene-d12 Amount: 200.00



SIM Semivolatile Analysis
QC Raw Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

Date : 22-MAR-2010 15:21

Client ID:

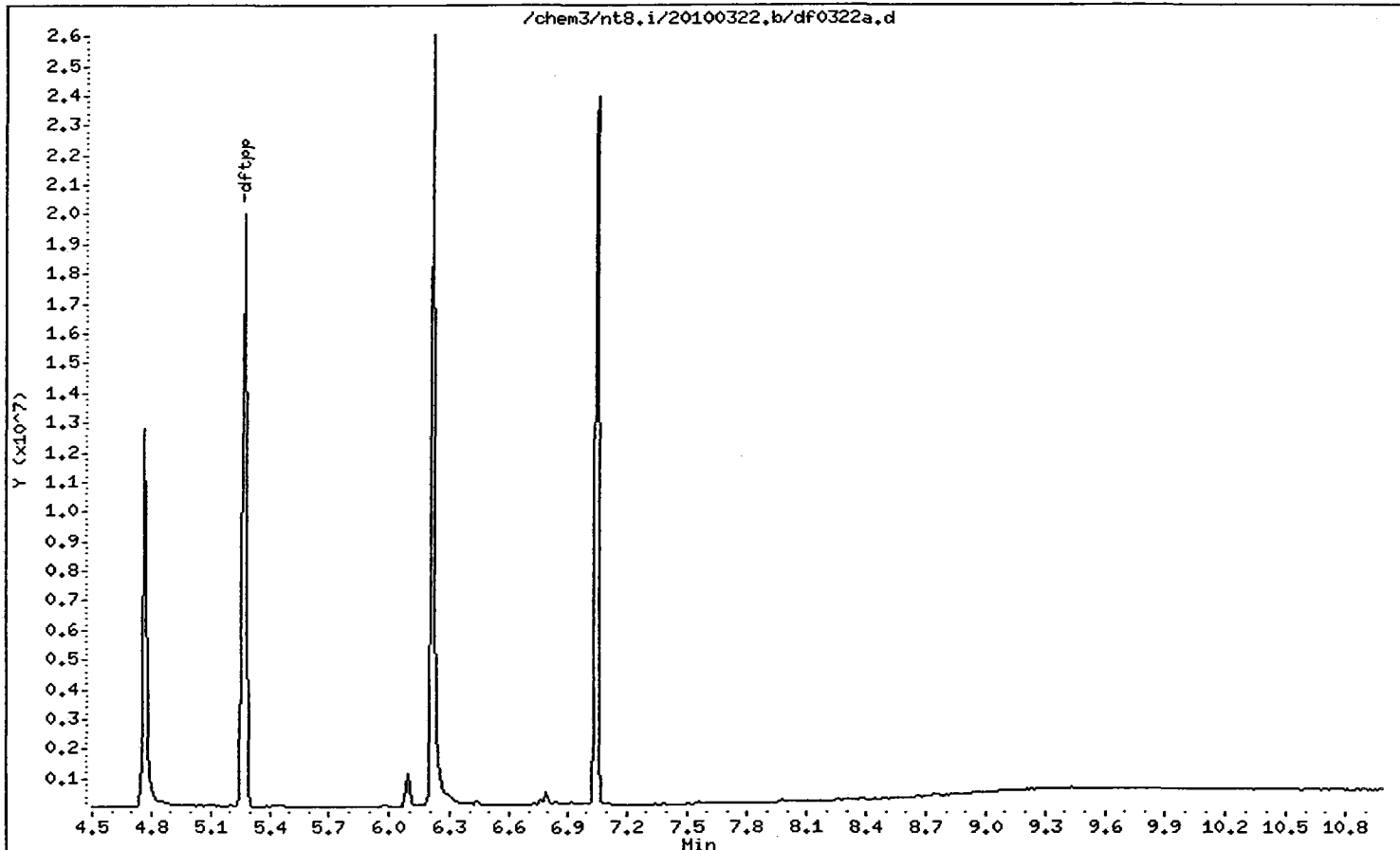
Instrument: nt8.i

Sample Info: DF0322A

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Date : 22-MAR-2010 15:21

Client ID:

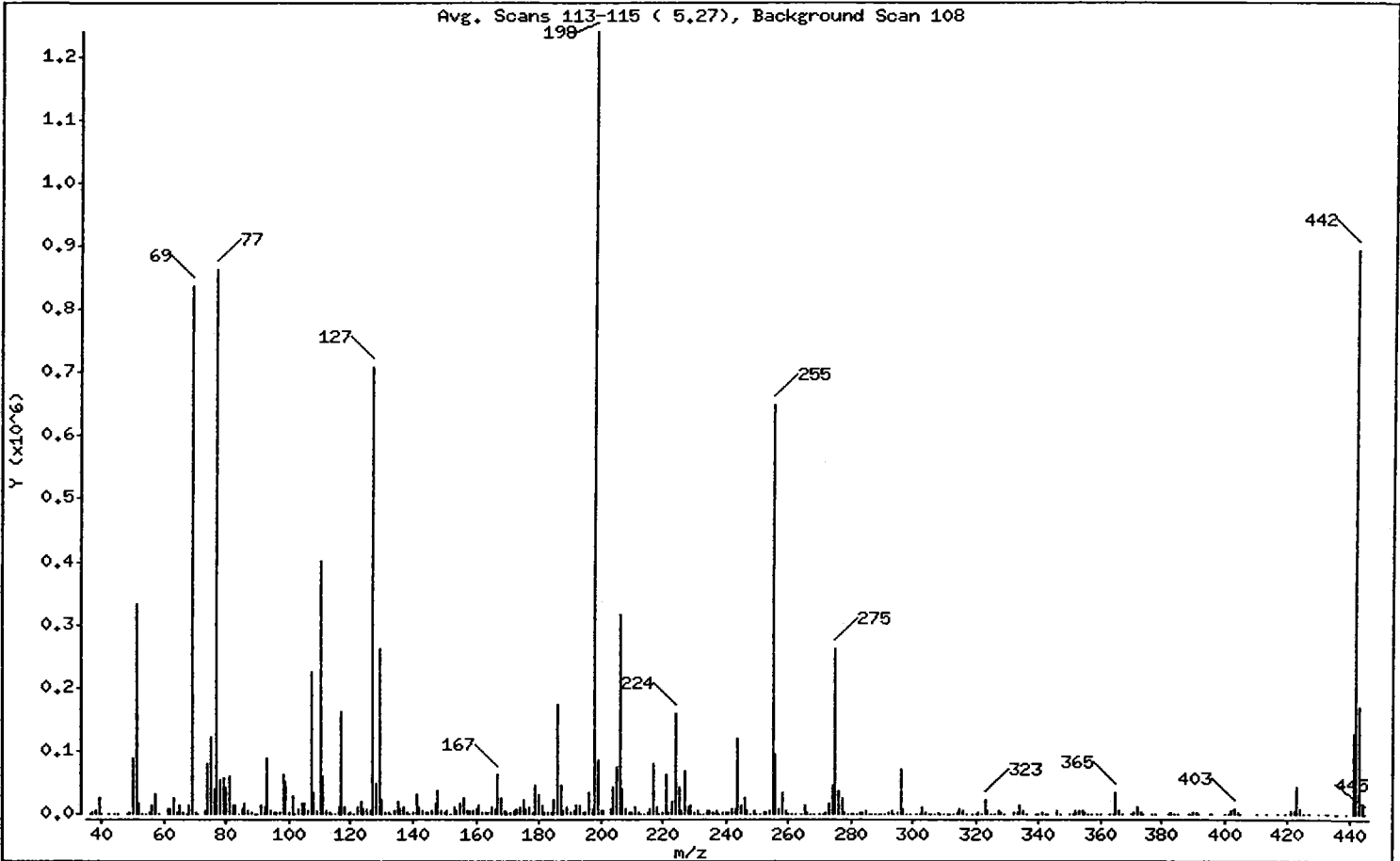
Instrument: nt8.i

Sample Info: DF0322A

Operator: VTS

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 | 26.99 |
| 68 | Less than 2.00% of mass 69 | 1.22 (1.81) |
| 69 | Mass 69 relative abundance | 67.49 |
| 70 | Less than 2.00% of mass 69 | 0.28 (0.41) |
| 127 | 10.00 - 80.00% of mass 198 | 57.18 |
| 197 | Less than 2.00% of mass 198 | 0.69 |
| 199 | 5.00 - 9.00% of mass 198 | 6.91 |
| 275 | 10.00 - 60.00% of mass 198 | 21.19 |
| 365 | Greater than 1.00% of mass 198 | 2.84 |
| 441 | 0.01 - 24.00% of mass 442 | 10.27 (14.22) |
| 442 | 50.00 - 200.00% of mass 198 | 72.25 |
| 443 | 15.00 - 24.00% of mass 442 | 13.81 (19.11) |

Date : 22-MAR-2010 15:21

Client ID:

Instrument: nt8.i

Sample Info: DF0322A

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0322a.d

Spectrum: Avg. Scans 113-115 (5.27), Background Scan 108

Location of Maximum: 198.00

Number of points: 353

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 430 | 132.00 | 2565 | 222.00 | 1747 | 314.00 | 4245 |
| 37.00 | 1435 | 133.00 | 916 | 223.00 | 18536 | 315.00 | 7777 |
| 38.00 | 4744 | 134.00 | 6317 | 224.00 | 160384 | 316.00 | 4791 |
| 39.00 | 26688 | 135.00 | 19536 | 225.00 | 41480 | 317.00 | 955 |
| 40.00 | 840 | 136.00 | 9102 | 226.00 | 4655 | 319.00 | 103 |
| 42.00 | 199 | 137.00 | 11370 | 227.00 | 68896 | 320.00 | 311 |
| 44.00 | 801 | 138.00 | 2837 | 228.00 | 10425 | 321.00 | 2366 |
| 45.00 | 912 | 139.00 | 1326 | 229.00 | 13328 | 322.00 | 1396 |
| 48.00 | 463 | 140.00 | 3502 | 230.00 | 2114 | 323.00 | 23360 |
| 49.00 | 2168 | 141.00 | 31776 | 231.00 | 5543 | 324.00 | 5006 |
| 50.00 | 88760 | 142.00 | 11171 | 232.00 | 893 | 325.00 | 146 |
| 51.00 | 334464 | 143.00 | 6012 | 233.00 | 1386 | 326.00 | 1203 |
| 52.00 | 17976 | 144.00 | 2066 | 234.00 | 4526 | 327.00 | 4823 |
| 53.00 | 1124 | 145.00 | 2113 | 235.00 | 5340 | 328.00 | 1488 |
| 54.00 | 10 | 146.00 | 5268 | 236.00 | 3365 | 329.00 | 565 |
| 55.00 | 1973 | 147.00 | 15779 | 237.00 | 5310 | 332.00 | 1617 |
| 56.00 | 13845 | 148.00 | 38352 | 238.00 | 923 | 333.00 | 1979 |
| 57.00 | 31640 | 149.00 | 5435 | 239.00 | 2203 | 334.00 | 15011 |
| 58.00 | 975 | 150.00 | 2085 | 240.00 | 2063 | 335.00 | 5178 |
| 61.00 | 7619 | 151.00 | 6136 | 241.00 | 2982 | 336.00 | 385 |
| 62.00 | 9485 | 152.00 | 583 | 242.00 | 8119 | 339.00 | 638 |
| 63.00 | 25344 | 153.00 | 10477 | 243.00 | 8179 | 340.00 | 270 |
| 64.00 | 3915 | 154.00 | 6507 | 244.00 | 120480 | 341.00 | 2696 |
| 65.00 | 13622 | 155.00 | 17168 | 245.00 | 14830 | 342.00 | 962 |
| 66.00 | 1570 | 156.00 | 24864 | 246.00 | 26224 | 343.00 | 109 |
| 67.00 | 1358 | 157.00 | 5373 | 247.00 | 5108 | 346.00 | 5782 |
| 68.00 | 15144 | 158.00 | 4874 | 248.00 | 1143 | 347.00 | 919 |
| 69.00 | 836288 | 159.00 | 4607 | 249.00 | 5709 | 350.00 | 340 |
| 70.00 | 3413 | 160.00 | 9603 | 250.00 | 861 | 351.00 | 415 |
| 71.00 | 349 | 161.00 | 15254 | 251.00 | 1374 | 352.00 | 6460 |
| 73.00 | 4913 | 162.00 | 4109 | 252.00 | 2259 | 353.00 | 4965 |
| 74.00 | 78832 | 163.00 | 1612 | 253.00 | 2841 | 354.00 | 6874 |
| 75.00 | 122064 | 164.00 | 2333 | 254.00 | 6910 | 355.00 | 1605 |
| 76.00 | 39824 | 165.00 | 10895 | 255.00 | 648192 | 356.00 | 142 |
| 77.00 | 863552 | 166.00 | 8906 | 256.00 | 93936 | 357.00 | 84 |

Date : 22-MAR-2010 15:21

Client ID:

Instrument: nt8.i

Sample Info: DF0322A

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0322a.d

Spectrum: Avg. Scans 113-115 (5.27), Background Scan 108

Location of Maximum: 198.00

Number of points: 353

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|---------|--------|--------|--------|-------|
| 78.00 | 55272 | 167.00 | 62360 | 257.00 | 7135 | 359.00 | 598 |
| 79.00 | 56816 | 168.00 | 26496 | 258.00 | 35048 | 360.00 | 151 |
| 80.00 | 44080 | 169.00 | 5249 | 259.00 | 6565 | 363.00 | 350 |
| 81.00 | 60160 | 170.00 | 2432 | 260.00 | 1317 | 364.00 | 139 |
| 82.00 | 14525 | 171.00 | 2814 | 261.00 | 1300 | 365.00 | 35216 |
| 83.00 | 15338 | 172.00 | 6199 | 262.00 | 254 | 366.00 | 5681 |
| 84.00 | 1316 | 173.00 | 7549 | 264.00 | 327 | 367.00 | 426 |
| 85.00 | 8177 | 174.00 | 12707 | 265.00 | 14222 | 370.00 | 1053 |
| 86.00 | 15944 | 175.00 | 22128 | 266.00 | 2009 | 371.00 | 2143 |
| 87.00 | 6313 | 176.00 | 7128 | 267.00 | 684 | 372.00 | 12467 |
| 88.00 | 3384 | 177.00 | 10865 | 268.00 | 794 | 373.00 | 3399 |
| 89.00 | 530 | 178.00 | 3647 | 270.00 | 1067 | 374.00 | 90 |
| 90.00 | 392 | 179.00 | 45984 | 271.00 | 1015 | 377.00 | 505 |
| 91.00 | 13064 | 180.00 | 32632 | 272.00 | 1544 | 378.00 | 251 |
| 92.00 | 11909 | 181.00 | 14851 | 273.00 | 18232 | 382.00 | 130 |
| 93.00 | 86984 | 182.00 | 2689 | 274.00 | 45200 | 383.00 | 3279 |
| 94.00 | 5134 | 183.00 | 2159 | 275.00 | 262592 | 384.00 | 915 |
| 95.00 | 2326 | 184.00 | 3610 | 276.00 | 35872 | 385.00 | 300 |
| 96.00 | 3321 | 185.00 | 22312 | 277.00 | 25448 | 389.00 | 141 |
| 97.00 | 1468 | 186.00 | 174016 | 278.00 | 3817 | 390.00 | 1711 |
| 98.00 | 63104 | 187.00 | 46592 | 279.00 | 816 | 391.00 | 1476 |
| 99.00 | 51928 | 188.00 | 4669 | 280.00 | 109 | 392.00 | 1067 |
| 100.00 | 3835 | 189.00 | 10497 | 281.00 | 243 | 395.00 | 250 |
| 101.00 | 29536 | 190.00 | 2187 | 282.00 | 816 | 396.00 | 155 |
| 102.00 | 1012 | 191.00 | 5562 | 283.00 | 3063 | 400.00 | 186 |
| 103.00 | 9598 | 192.00 | 13283 | 284.00 | 1744 | 401.00 | 534 |
| 104.00 | 18008 | 193.00 | 15037 | 285.00 | 4371 | 402.00 | 4662 |
| 105.00 | 17104 | 194.00 | 3706 | 286.00 | 575 | 403.00 | 7230 |
| 106.00 | 4800 | 195.00 | 1956 | 287.00 | 147 | 404.00 | 2346 |
| 107.00 | 223808 | 196.00 | 34800 | 288.00 | 593 | 405.00 | 622 |
| 108.00 | 33176 | 197.00 | 8489 | 289.00 | 939 | 410.00 | 235 |
| 109.00 | 6044 | 198.00 | 1239040 | 290.00 | 620 | 413.00 | 152 |
| 110.00 | 400640 | 199.00 | 85640 | 291.00 | 798 | 417.00 | 96 |
| 111.00 | 59912 | 200.00 | 5929 | 292.00 | 1542 | 419.00 | 115 |
| 112.00 | 6235 | 201.00 | 5688 | 293.00 | 5126 | 421.00 | 6004 |

Date : 22-MAR-2010 15:21

Client ID:

Instrument: nt8.i

Sample Info: DF0322A

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0322a.d

Spectrum: Avg. Scans 113-115 (5.27), Background Scan 108

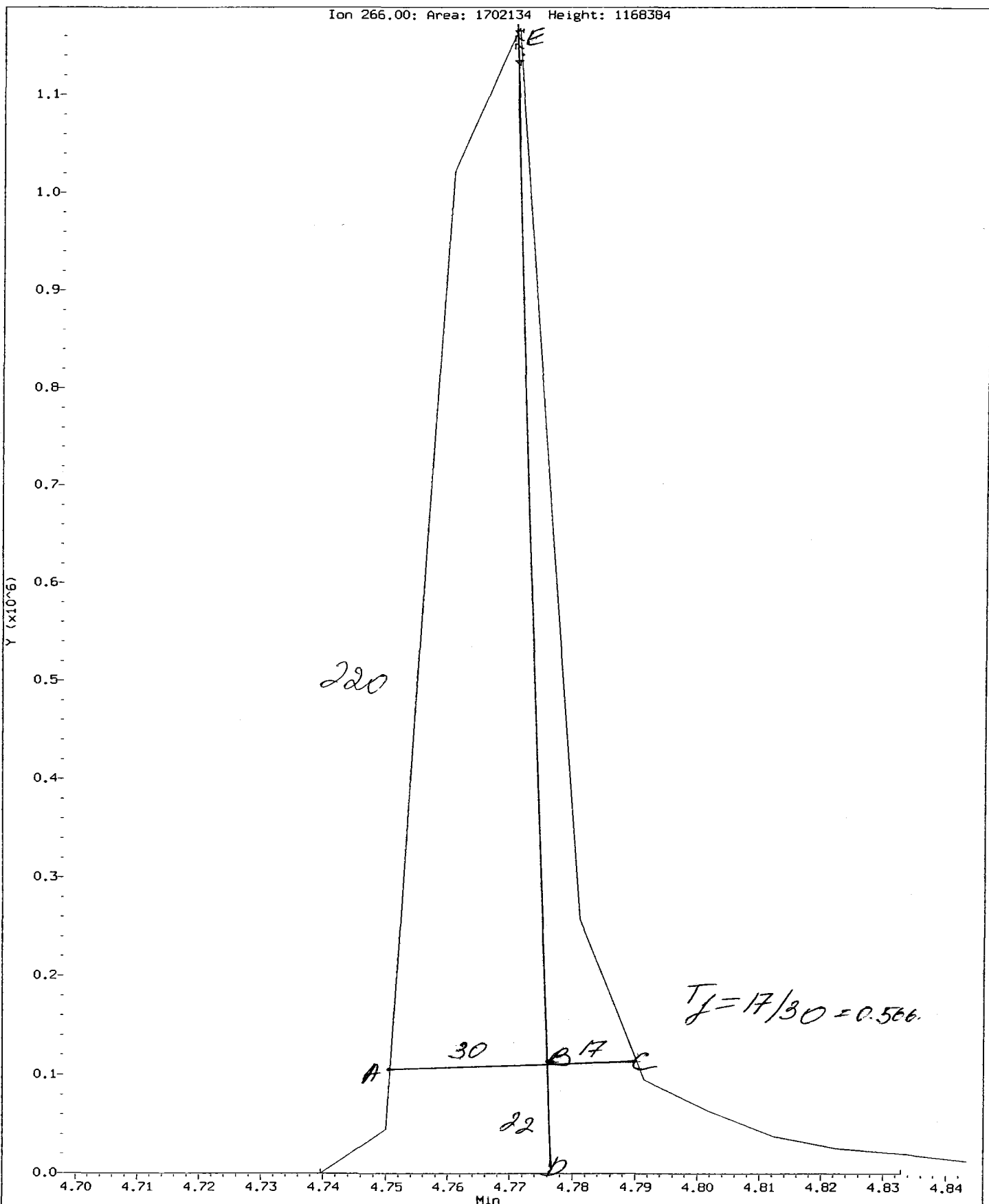
Location of Maximum: 198.00

Number of points: 353

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|-------|--------|--------|
| 113.00 | 2319 | 203.00 | 8455 | 294.00 | 1177 | 422.00 | 6216 |
| 114.00 | 747 | 204.00 | 43264 | 295.00 | 1580 | 423.00 | 43536 |
| 115.00 | 1010 | 205.00 | 72664 | 296.00 | 72440 | 424.00 | 8689 |
| 116.00 | 11011 | 206.00 | 315648 | 297.00 | 8458 | 425.00 | 1180 |
| 117.00 | 161792 | 207.00 | 38576 | 298.00 | 757 | 427.00 | 88 |
| 118.00 | 10809 | 208.00 | 9566 | 299.00 | 515 | 430.00 | 393 |
| 119.00 | 1258 | 209.00 | 3433 | 301.00 | 1412 | 432.00 | 151 |
| 120.00 | 2523 | 210.00 | 1723 | 302.00 | 1119 | 433.00 | 712 |
| 121.00 | 980 | 211.00 | 12195 | 303.00 | 10451 | 435.00 | 87 |
| 122.00 | 12525 | 212.00 | 1727 | 304.00 | 2253 | 436.00 | 116 |
| 123.00 | 19848 | 213.00 | 1051 | 305.00 | 330 | 439.00 | 437 |
| 124.00 | 8038 | 214.00 | 397 | 306.00 | 127 | 441.00 | 127280 |
| 125.00 | 7872 | 215.00 | 3382 | 307.00 | 86 | 442.00 | 895232 |
| 126.00 | 4556 | 216.00 | 7474 | 308.00 | 1592 | 443.00 | 171072 |
| 127.00 | 708480 | 217.00 | 80424 | 309.00 | 642 | 444.00 | 17176 |
| 128.00 | 48416 | 218.00 | 10797 | 310.00 | 1289 | 445.00 | 1069 |
| 129.00 | 261248 | 219.00 | 1243 | 311.00 | 151 | | |
| 130.00 | 22104 | 220.00 | 1486 | 312.00 | 249 | | |
| 131.00 | 3483 | 221.00 | 61776 | 313.00 | 750 | | |

Data File: /chem3/nt8.i/20100322.b/ddt.b/df0322a.d
Injection Date: 22-MAR-2010 15:21
Instrument: nt8.i
Client Sample ID:

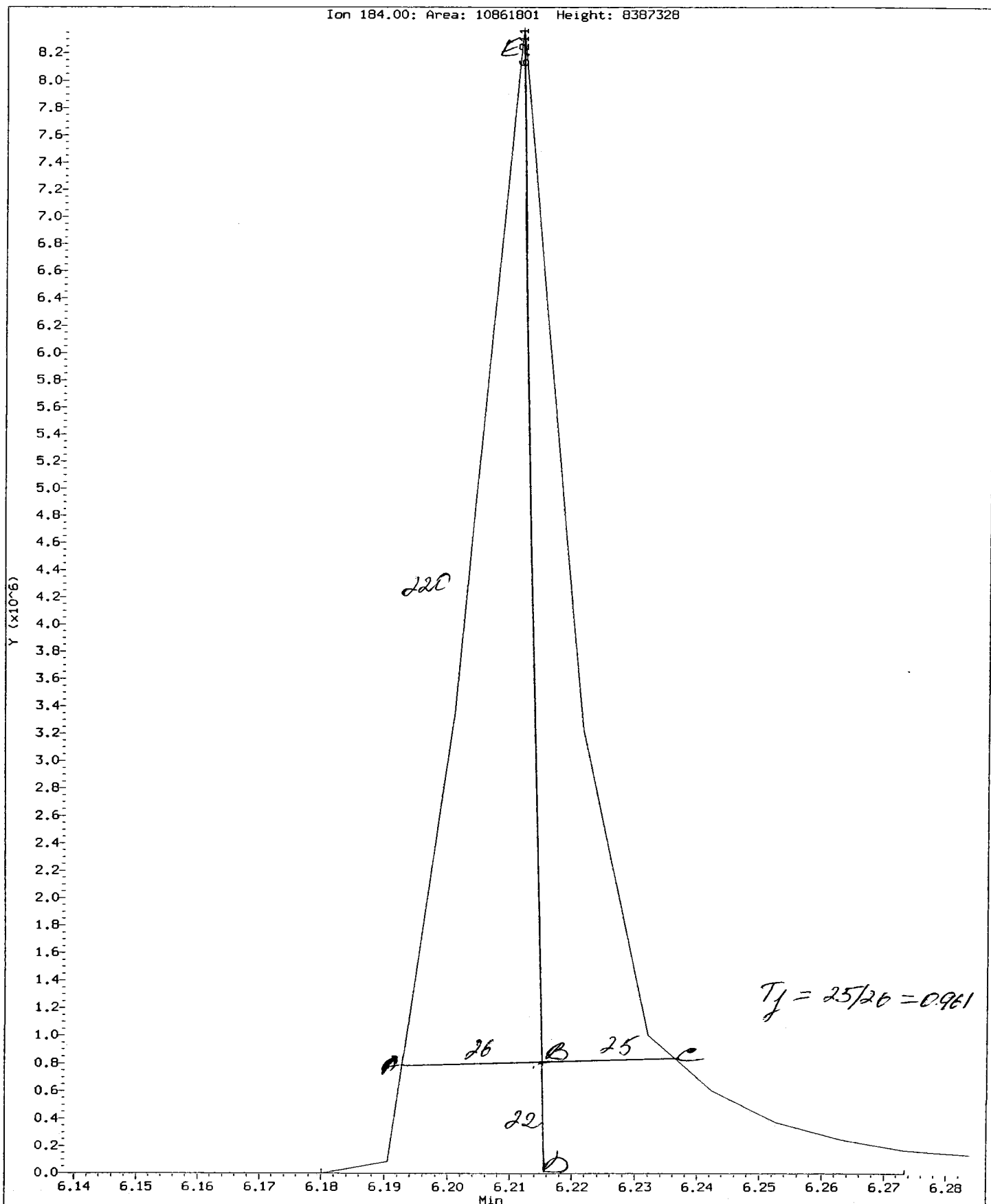
Compound: Pentachlorophenol
CAS Number: 87-86-5



QN21:00192

Data File: /chem3/nt8.i/20100322.b/ddt.b/df0322a.d
Injection Date: 22-MAR-2010 15:21
Instrument: nt8.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt8.i/20100322.b/ddt.b/df0322a.d ARI ID: DF0322A
Method: /chem3/nt8.i/20100322.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 22-MAR-2010 15:21 Instrument: nt8.i

| COMPOUND | RT | AREA |
|-------------------|-------|----------|
| Pentachlorophenol | 4.771 | 1702134 |
| Benzidine | 6.211 | 10861801 |
| 4,4'-DDE | 6.439 | 19091 |
| 4,4'-DDD | 6.792 | 113198 |
| 4,4'-DDT | 7.051 | 5594630 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(19091 + 113198) * 100}{(19091 + 113198 + 5594630)}$$

DDT Percent Breakdown = 2.3 %

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MB-031310

METHOD BLANK

Lab Sample ID: MB-031310

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: NA

Date Received: NA

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 18:23

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 0.010 | 0.0062 J |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | < 0.010 U |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | < 0.010 U |
| 208-96-8 | Acenaphthylene | 0.010 | < 0.010 U |
| 83-32-9 | Acenaphthene | 0.010 | < 0.010 U |
| 86-73-7 | Fluorene | 0.010 | < 0.010 U |
| 85-01-8 | Phenanthrene | 0.010 | < 0.010 U |
| 120-12-7 | Anthracene | 0.010 | < 0.010 U |
| 206-44-0 | Fluoranthene | 0.010 | < 0.010 U |
| 129-00-0 | Pyrene | 0.010 | < 0.010 U |
| 56-55-3 | Benzo(a)anthracene | 0.010 | < 0.010 U |
| 218-01-9 | Chrysene | 0.010 | < 0.010 U |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | < 0.010 U |
| 207-08-9 | Benzo(k)fluoranthene | 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 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | < 0.010 U |
| 132-64-9 | Dibenzofuran | 0.010 | < 0.010 U |

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 72.3%
d14-Dibenzo(a,h)anthracene 72.0%

YZ 3/24/10

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21mb.d
 Lab Smp Id: QN21MBW1 Client Smp ID: QN21MBW1
 Inj Date : 22-MAR-2010 18:23
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21MBW1
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 9 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 192963 | 200.000 | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 6789 | 6.22233 | J 6.22 (R) |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 131022 | 217.061 | — 217 (M) |
| 7 2-Methylnaphthalene | 142 | Compound Not Detected. | | | | | |
| 8 1-Methylnaphthalene | 142 | Compound Not Detected. | | | | | |
| 10 Acenaphthylene | 152 | Compound Not Detected. | | | | | |
| * 11 Acenaphthene-d10 | 164 | 6.560 | 6.561 | (1.000) | 104113 | 200.000 | |
| 12 Acenaphthene | 153 | Compound Not Detected. | | | | | |
| 14 Dibenzofuran | 168 | Compound Not Detected. | | | | | |
| 15 Fluorene | 166 | Compound Not Detected. | | | | | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 158821 | 200.000 | |
| 19 Phenanthrene | 178 | Compound Not Detected. | | | | | |
| 20 Anthracene | 178 | Compound Not Detected. | | | | | |
| 24 Fluoranthene | 202 | Compound Not Detected. | | | | | |
| 25 Pyrene | 202 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-------------------|--------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| 28 Benzo(a)anthracene | 228 | | | | Compound Not Detected. | | |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 106343 | 200.000 | (M) |
| 30 Chrysene | 228 | | | | Compound Not Detected. | | |
| 32 Benzo(b)fluoranthene | 252 | | | | Compound Not Detected. | | |
| 33 Benzo(k)fluoranthene | 252 | | | | Compound Not Detected. | | |
| 34 Benzo(a)pyrene | 252 | | | | Compound Not Detected. | | |
| * 35 Perylene-d12 | 264 | 13.030 | 13.020 | (1.000) | 93285 | 200.000 | (M) |
| 37 Indeno(1,2,3-cd)pyrene | 276 | | | | Compound Not Detected. | | |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.043 | 14.043 | (1.000) | 102696 | 215.726 | 216 |
| 38 Dibenzo(a,h)anthracene | 278 | | | | Compound Not Detected. | | |
| 39 Benzo(g,h,i)perylene | 276 | | | | Compound Not Detected. | | |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21mb.d
 Lab Smp Id: QN21MBW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: QN21MBW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|--------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 192963 | -11.81 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 104113 | -12.83 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 158821 | -13.44 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 106343 | -12.60 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 93285 | -8.72 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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/nt8.i/20100322.b/gn21mb.d
Date : 22-MAR-2010 18:23

Client ID: QN21MBM1

Sample Info: QN21MBM1

Volume Injected (uL): 2.0

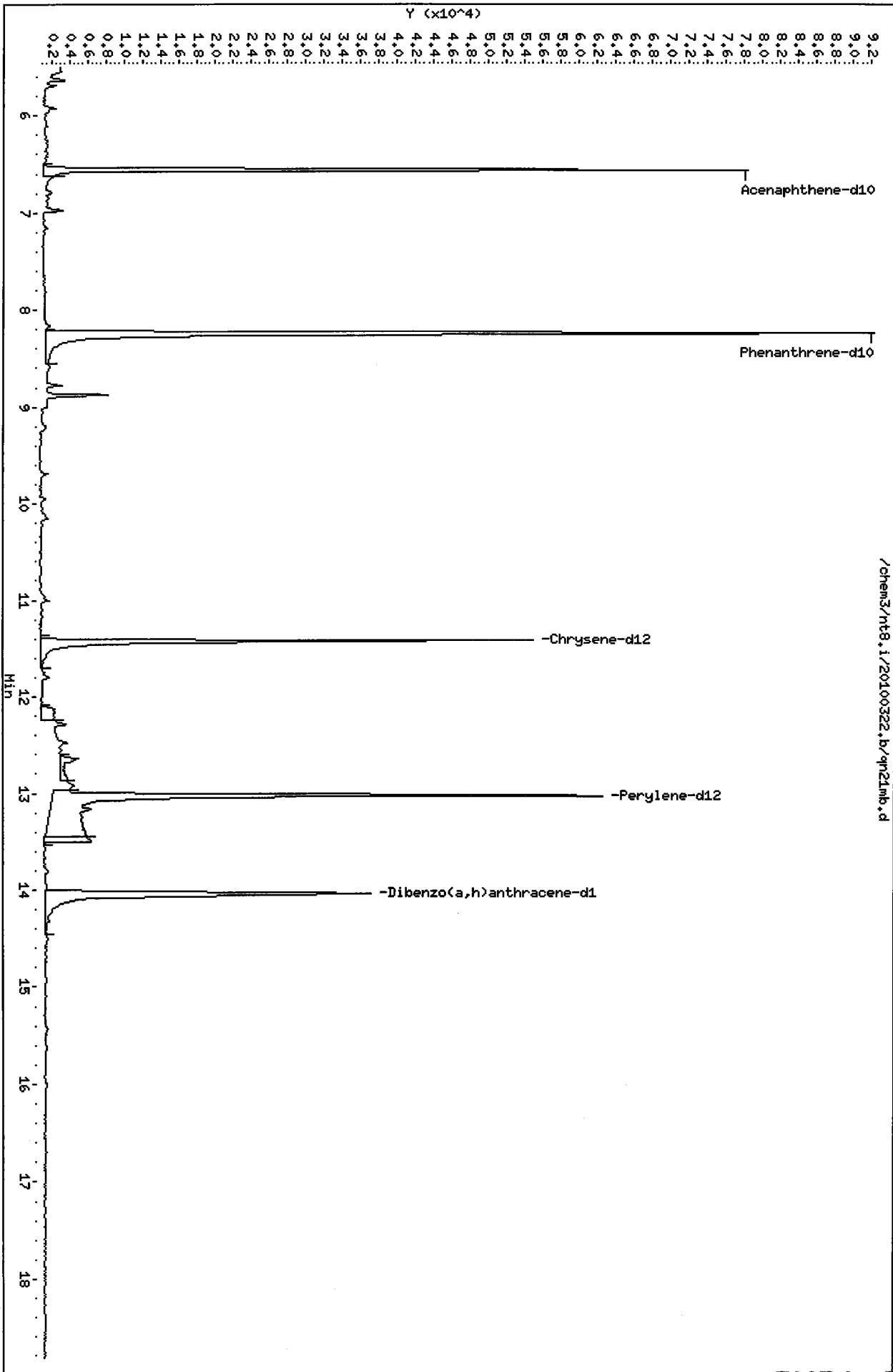
Column phase: ZB-5

Instrument: nt8.i

Operator: VTS

Column diameter: 0.25

/chem3/nt8.i/20100322.b/gn21mb.d



Date : 22-MAR-2010 18:23

Client ID: QN21MBW1

Instrument: nt8.i

Sample Info: QN21MBW1

Volume Injected (uL): 2.0

Operator: VTS

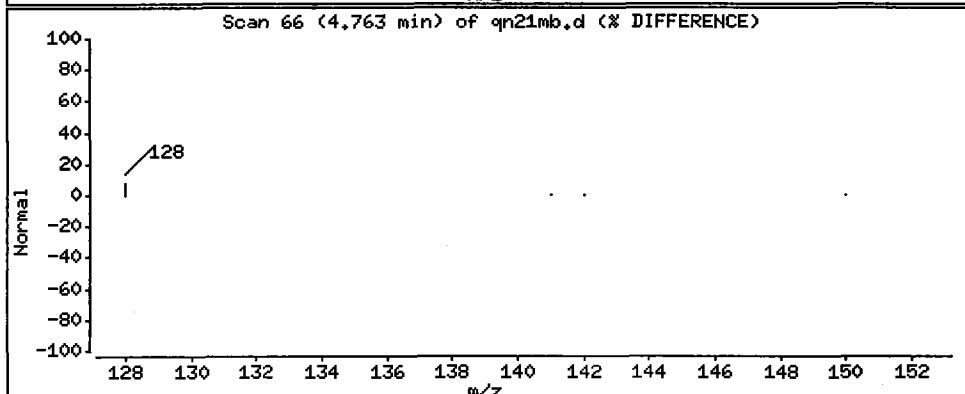
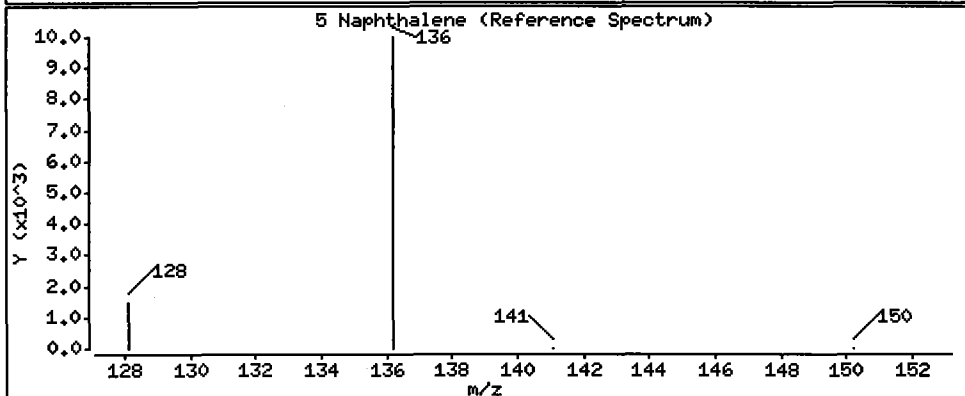
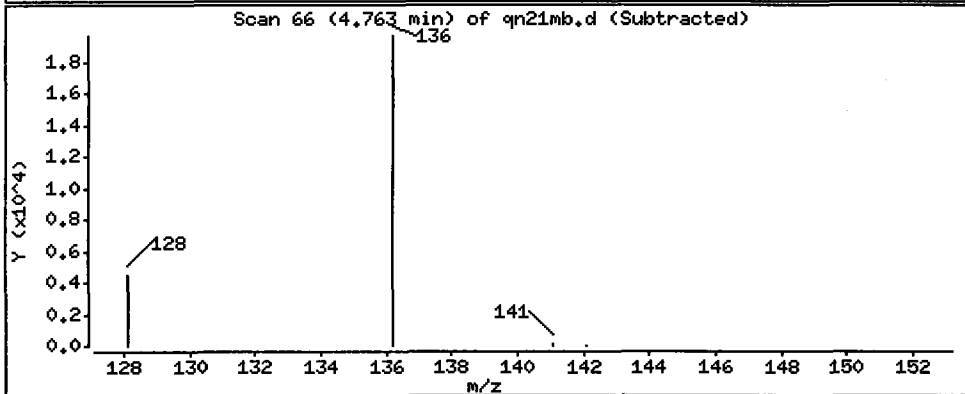
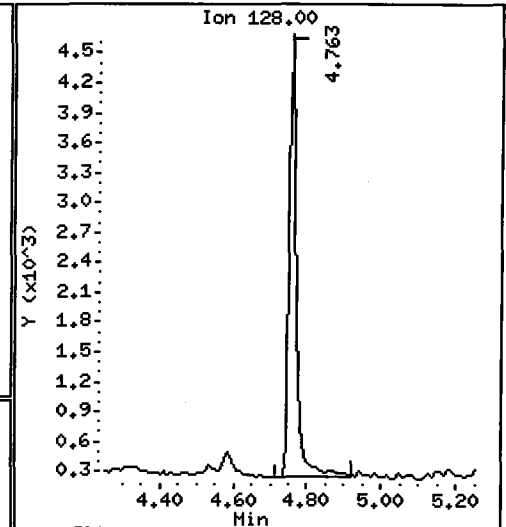
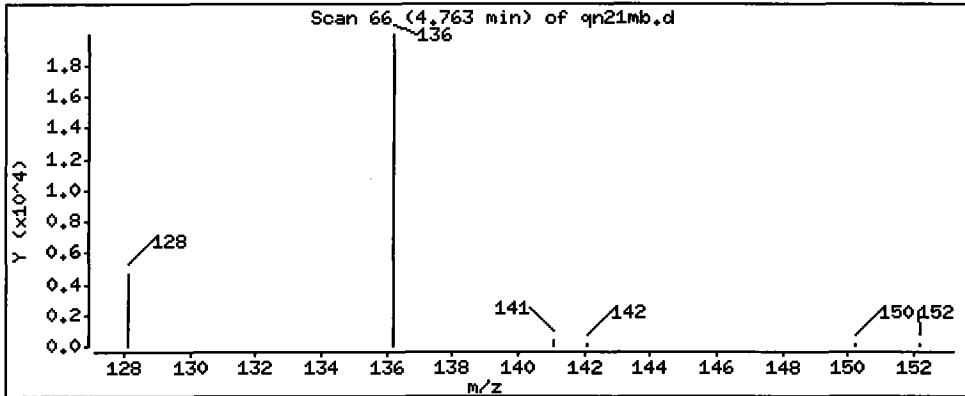
Column phase: ZB-5

Column diameter: 0.25

5 Naphthalene

Concentration: 6.22 ug/L

JLA



Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21sb.d
 Lab Smp Id: QN21LCSW1 Client Smp ID: QN21LCSW1
 Inj Date : 22-MAR-2010 18:46
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21LCSW1
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|------|-------|--------|---------|----------|----------------------|-----------------|
| | | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| * 4 Naphthalene-d8 | | 136 | 4.742 | 4.742 | (1.000) | 210277 | 200.000 | |
| 5 Naphthalene | | 128 | 4.763 | 4.753 | (1.004) | 240075 | 201.918 | 202 |
| \$ 6 2-Methylnaphthalene-d10 | | 152 | 5.408 | 5.408 | (1.140) | 134089 | 203.851 | 204 |
| 7 2-Methylnaphthalene | | 142 | 5.440 | 5.440 | (1.147) | 147928 | 205.278 | 205 |
| 8 1-Methylnaphthalene | | 142 | 5.544 | 5.544 | (1.169) | 146294 | 197.941 | 198 |
| 10 Acenaphthylene | | 152 | 6.379 | 6.379 | (0.972) | 198314 | 179.927 | 180 |
| * 11 Acenaphthene-d10 | | 164 | 6.561 | 6.561 | (1.000) | 114535 | 200.000 | |
| 12 Acenaphthene | | 153 | 6.585 | 6.585 | (1.004) | 144363 | 207.929 | 208 |
| 14 Dibenzofuran | | 168 | 6.778 | 6.778 | (1.033) | 202918 | 216.629 | 217 |
| 15 Fluorene | | 166 | 7.153 | 7.153 | (1.090) | 167574 | 228.318 | 228 |
| * 18 Phenanthrene-d10 | | 188 | 8.241 | 8.241 | (1.000) | 177509 | 200.000 | |
| 19 Phenanthrene | | 178 | 8.265 | 8.265 | (1.003) | 245220 | 242.880 | 243 |
| 20 Anthracene | | 178 | 8.325 | 8.313 | (1.010) | 253527 | 213.768 | 214 |
| 24 Fluoranthene | | 202 | 9.680 | 9.680 | (1.175) | 279482 | 271.762 | 272 |
| 25 Pyrene | | 202 | 9.946 | 9.946 | (1.207) | 274884 | 258.733 | 259 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------------|-------------------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (1.000) | 183971 | 260.339 | 260 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 118443 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 266426 | 258.791 | 259 |
| 32 Benzo(b)fluoranthene | 252 | 12.655 | 12.655 | (0.971) | 427754 | 506.445 | 506 (RMH) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (0.971) | 430326 | 370.516 | 371 (RM) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (0.995) | 133442 | 181.047 | 181 |
| * 35 Perylene-d12 | 264 | 13.030 | 13.020 | (1.000) | 110104 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.078) | 194503 | 203.327 | 203 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.077) | 127792 | 227.437 | 227 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.067 | 14.067 | (1.080) | 168968 | 222.324 | 222 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.097) | 166286 | 195.853 | 196 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21sb.d
 Lab Smp Id: QN21LCSW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: QN21LCSW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 210277 | -3.90 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 114535 | -4.11 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 177509 | -3.25 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 118443 | -2.65 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 110104 | 7.74 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.03 | 0.08 |

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/nt8.i/20100322.b/gn21sb.d
Date : 22-Mar-2010 18:46

Client ID: QN21LCSM4

Sample Info: QN21LCSM4

Volume Injected (uL): 2.0

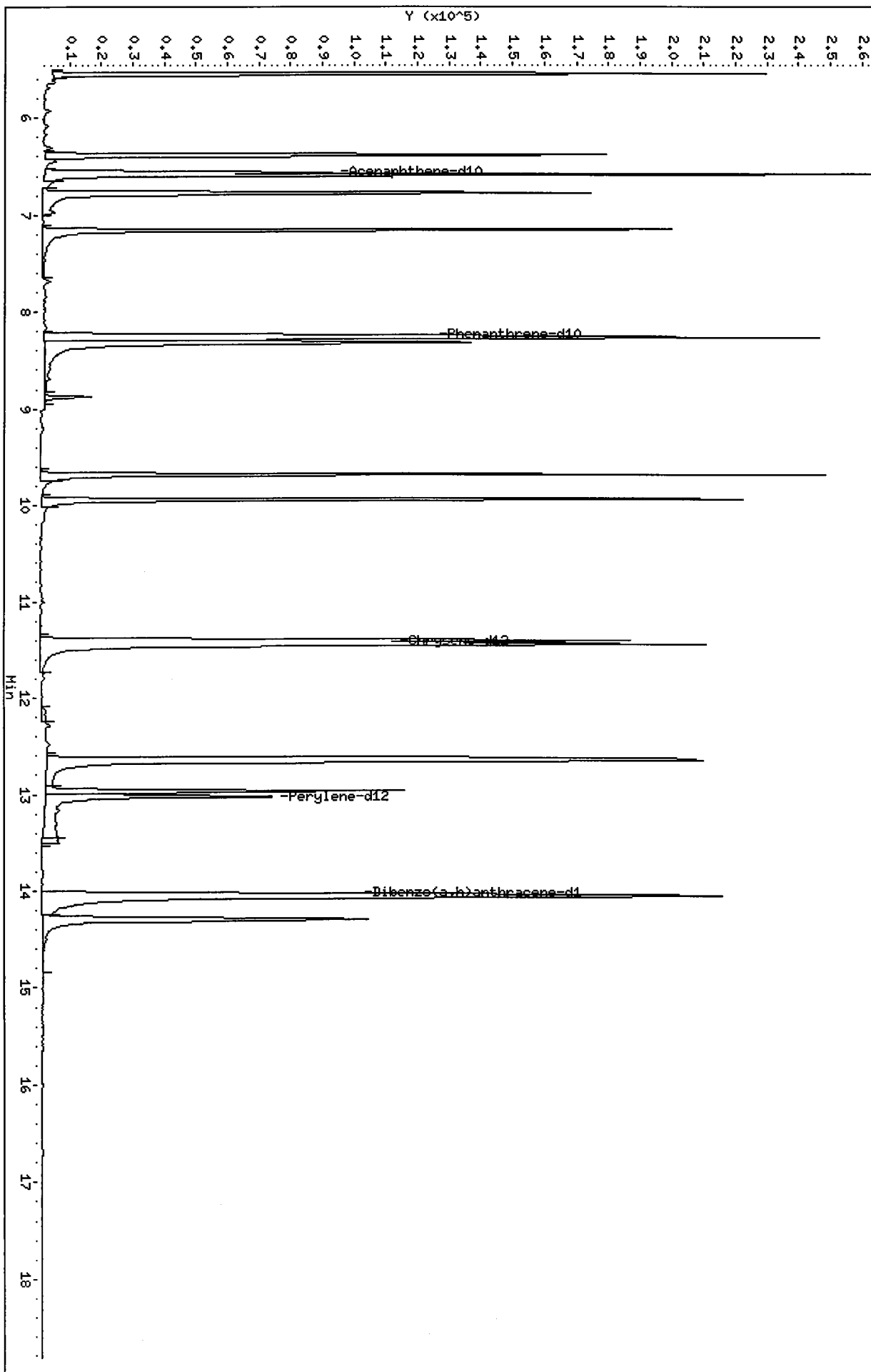
Column phase: ZB-5

Instrument: nt8.i

Operator: VTS

Column diameter: 0.25

/chem3/nt8.i/20100322.b/gn21sb.d



Date : 22-MAR-2010 18:46

Client ID: QN21LCSM1

Instrument: nt8.i

Sample Info: QN21LCSM1

Volume Injected (uL): 2.0

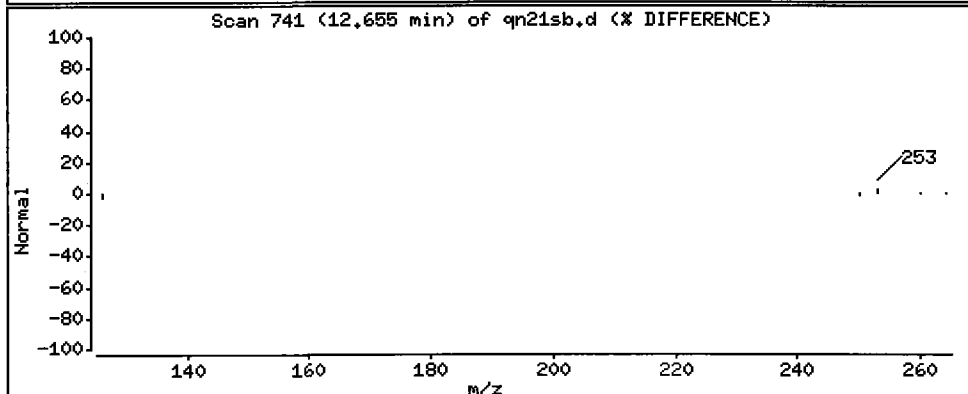
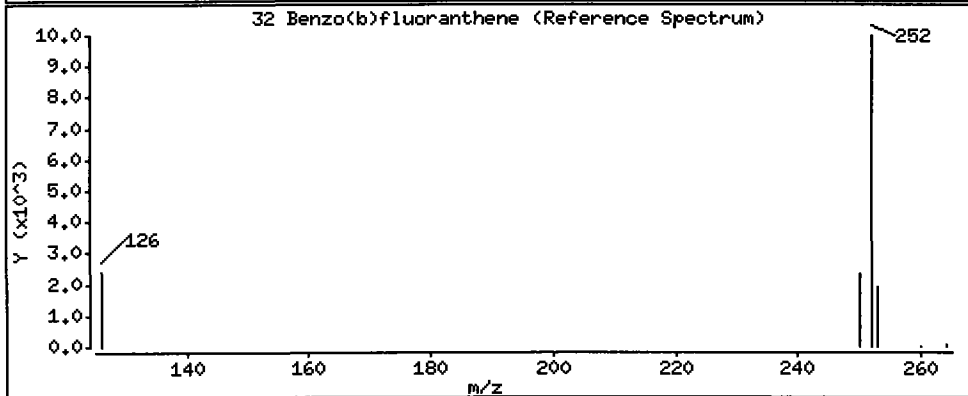
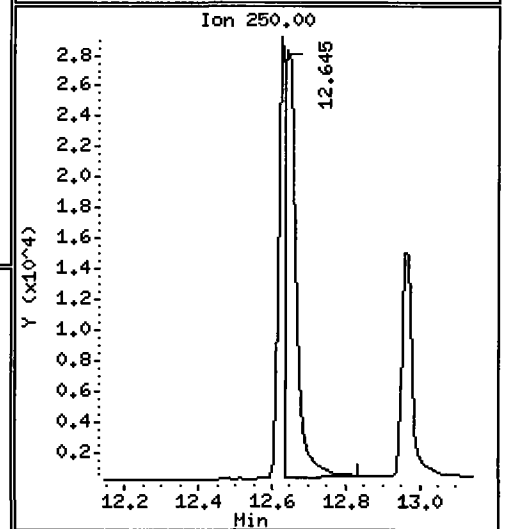
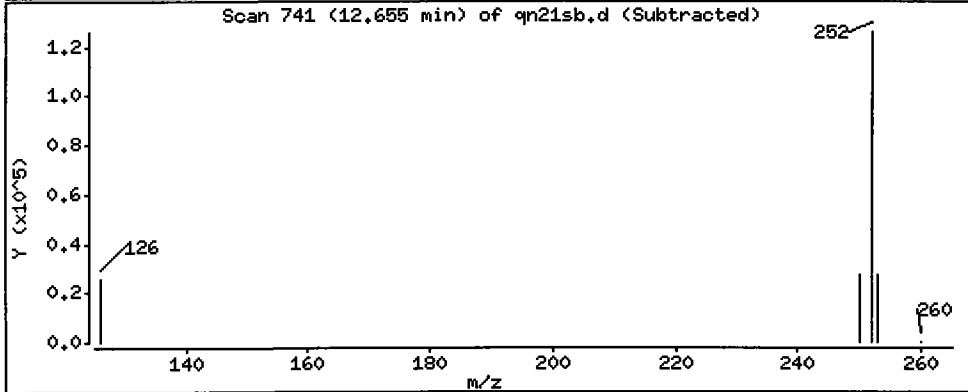
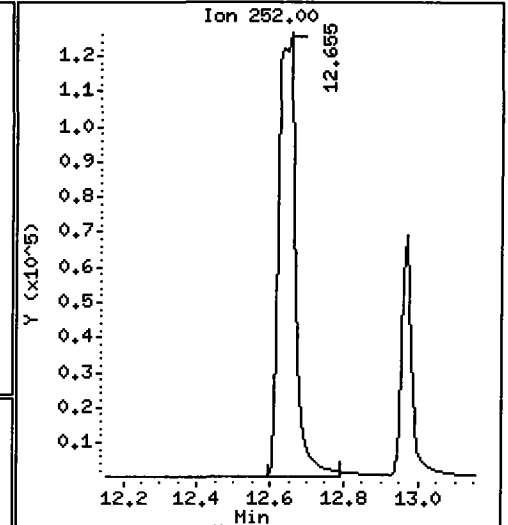
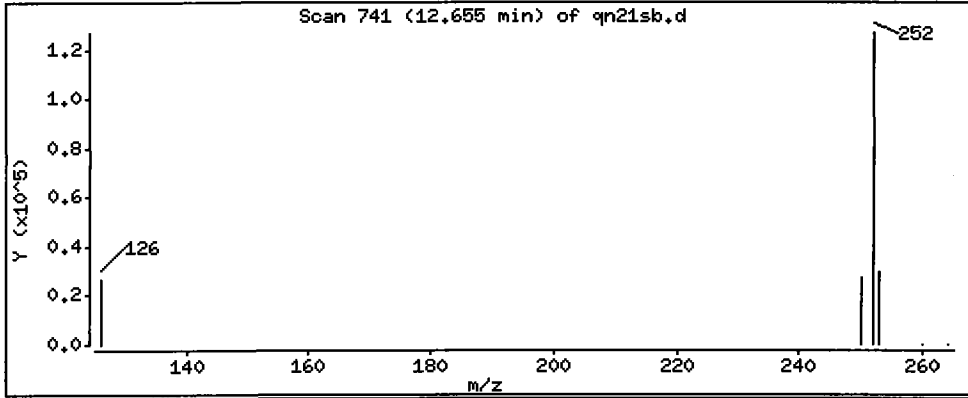
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

32 Benzo(b)fluoranthene

Concentration: 506 ug/L



Date : 22-MAR-2010 18:46

Client ID: QN21LCSW1

Instrument: nt8.i

Sample Info: QN21LCSW1

Volume Injected (uL): 2.0

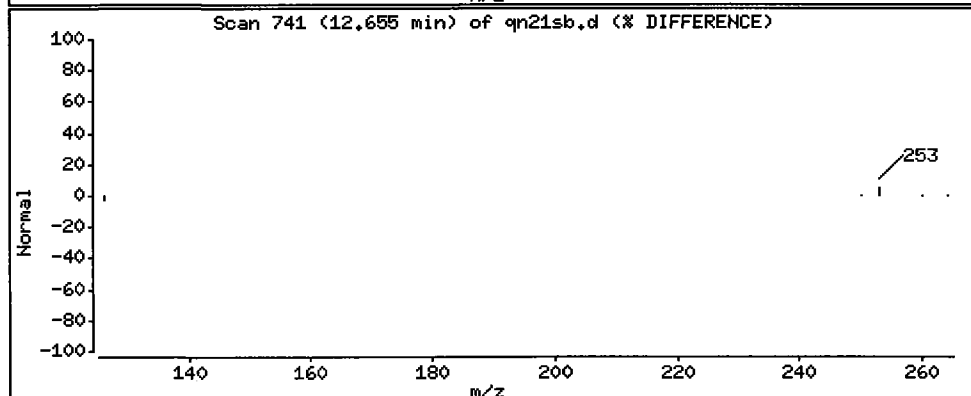
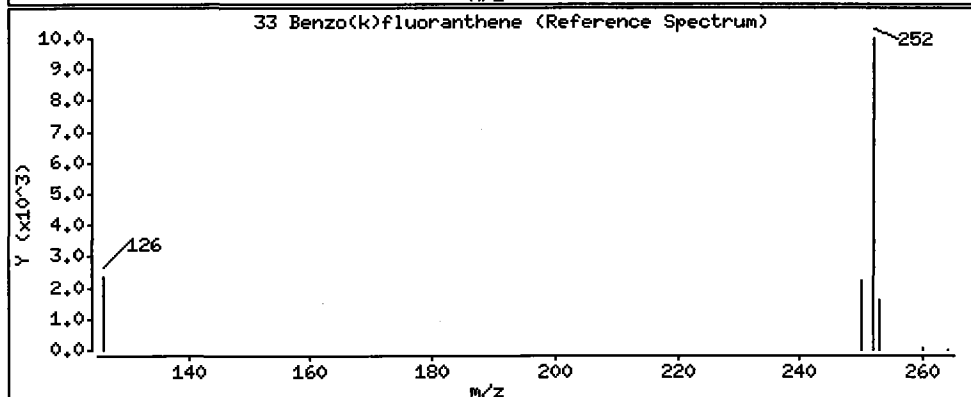
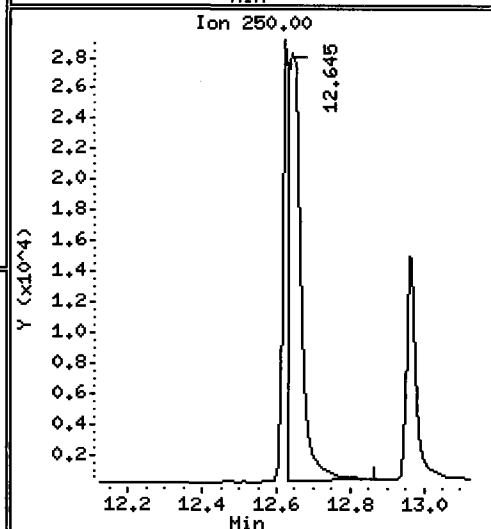
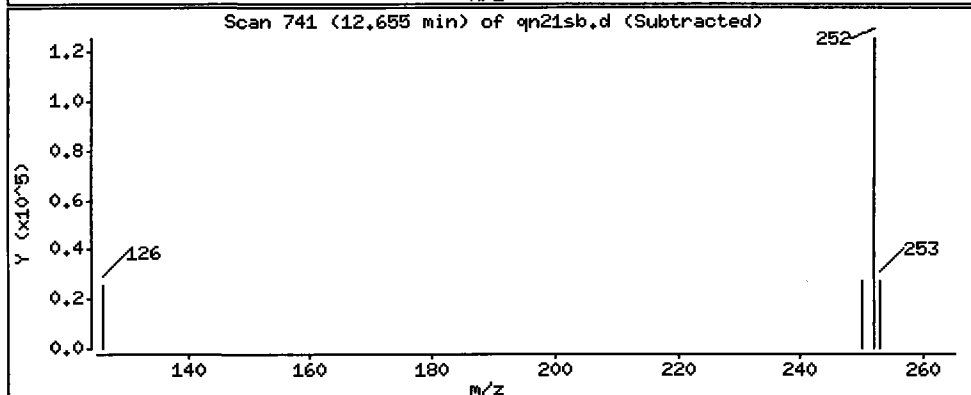
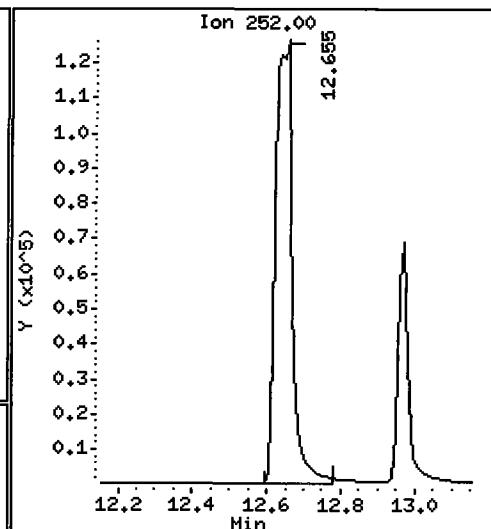
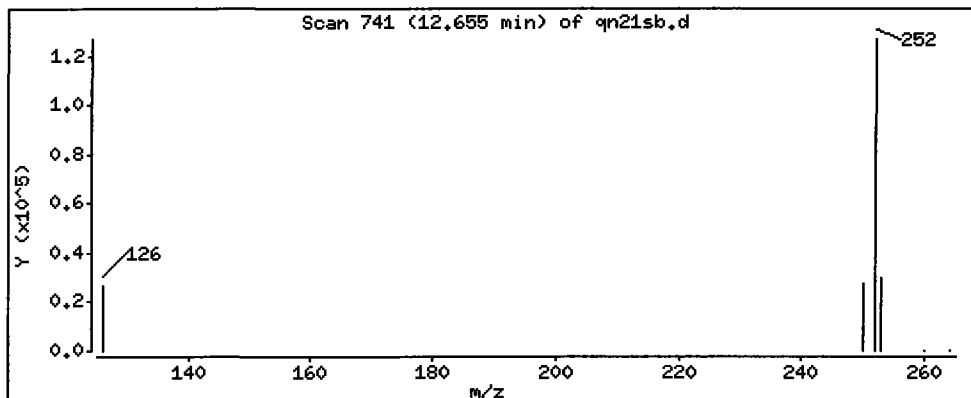
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

33 Benzo(k)fluoranthene

Concentration: 371 ug/L



Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21sbd.d
 Lab Smp Id: QN21LCSDW1 Client Smp ID: QN21LCSDW1
 Inj Date : 22-MAR-2010 19:10
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21LCSDW1
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 11 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalnm.sub
 Target Version: 3.50
 Processing Host: cserv3

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 | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|-------|-------|---------|--------|----------|-------------------|--------------|
| | | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 207630 | 200.000 | | |
| 5 Naphthalene | 128 | 4.753 | 4.753 | (1.002) | 251978 | 214.632 | 215 | |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 138405 | 213.095 | 213 | |
| 7 2-Methylnaphthalene | 142 | 5.439 | 5.440 | (1.147) | 151807 | 213.346 | 213 | |
| 8 1-Methylnaphthalene | 142 | 5.543 | 5.544 | (1.169) | 151865 | 208.099 | 208 | |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 214570 | 195.119 | 195 | |
| * 11 Acenaphthene-d10 | 164 | 6.560 | 6.561 | (1.000) | 114275 | 200.000 | | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 149147 | 215.309 | 215 | |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 209480 | 224.143 | 224 | |
| 15 Fluorene | 166 | 7.153 | 7.153 | (1.090) | 175756 | 240.011 | 240 | |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 173398 | 200.000 | | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 249706 | 253.187 | 253 | |
| 20 Anthracene | 178 | 8.313 | 8.313 | (1.009) | 262481 | 226.565 | 227 | |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 286390 | 285.081 | 285 | |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 291978 | 281.339 | 281 | |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|----------------------------------|-----------|--------|----------------|---------|----------|-------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (1.000) | 198034 | 293.051 | 293 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 113265 | 200.000 | (M) |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.000) | 271955 | 276.238 | 276 |
| 32 Benzo(b)fluoranthene | 252 | 12.655 | 12.655 | (0.972) | 434199 | 529.463 | 229.07 529 (RM) |
| 33 Benzo(k)fluoranthene | 252 | 12.655 | 12.655 | (0.972) | 436217 | 386.831 | 229.07 387 (RM) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (1.000) | 146851 | 205.204 | 205 |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 106904 | 200.000 | (M) |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.000) | 200423 | 215.787 | 216 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.030 | 14.043 | (1.000) | 129570 | 237.504 | 238 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.055 | 14.067 | (1.000) | 173558 | 235.199 | 235 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.000) | 177108 | 214.843 | 215 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21sbd.d
 Lab Smp Id: QN21LCSDW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: QN21LCSDW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 207630 | -5.11 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 114275 | -4.32 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 173398 | -5.49 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 113265 | -6.91 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 106904 | 4.61 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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/nt8.i/20100322.b/qn21sbd.d
Date: 22-MAR-2010 19:10

Client ID: QN21LCSDM1

Sample Info: QN21LCSDM1

Volume Injected (uL): 2.0

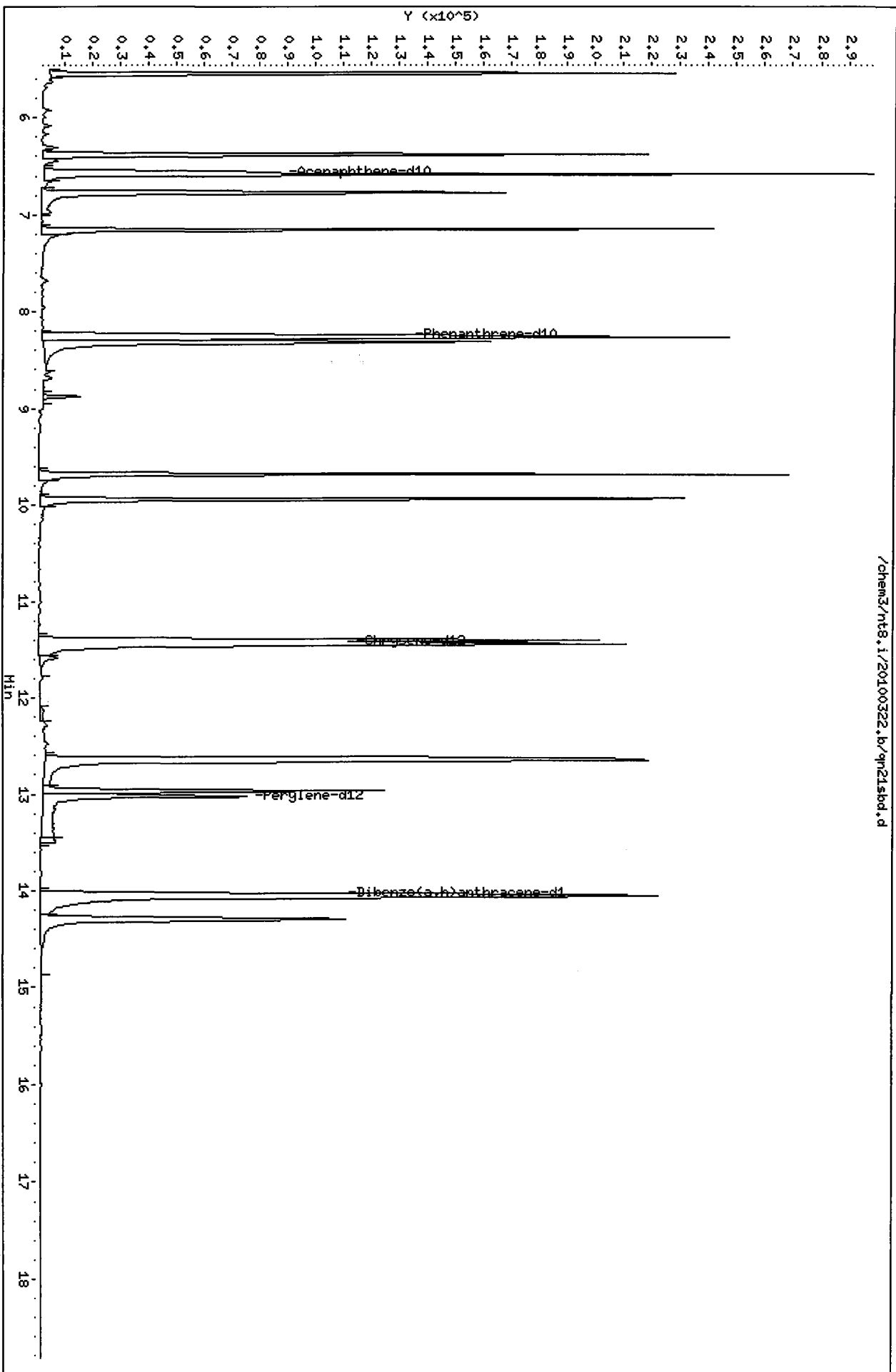
Column phase: ZB-5

Instrument: nt8.i

Operator: VTS

Column diameter: 0.25

/chem3/nt8.i/20100322.b/qn21sbd.d



Date : 22-MAR-2010 19:10

Client ID: QN21LCSDW1

Instrument: nt8.i

Sample Info: QN21LCSDW1

Volume Injected (uL): 2.0

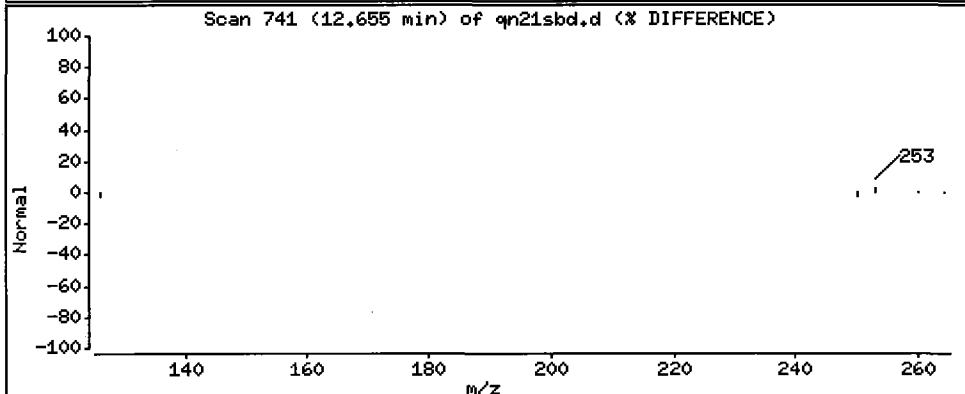
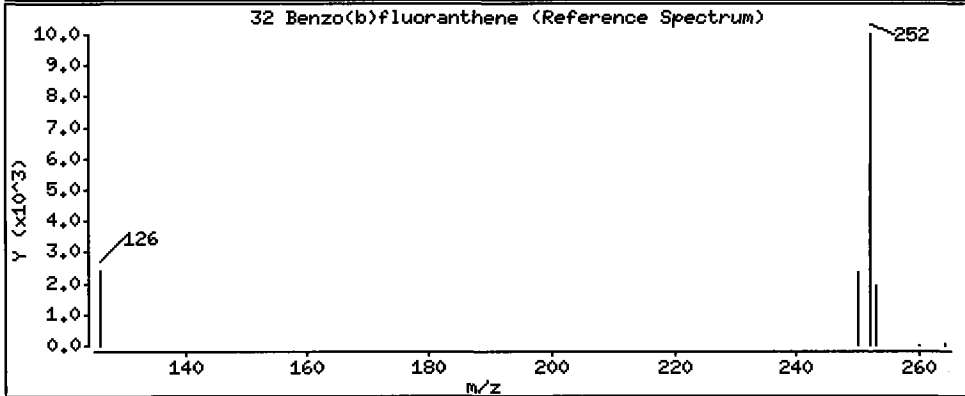
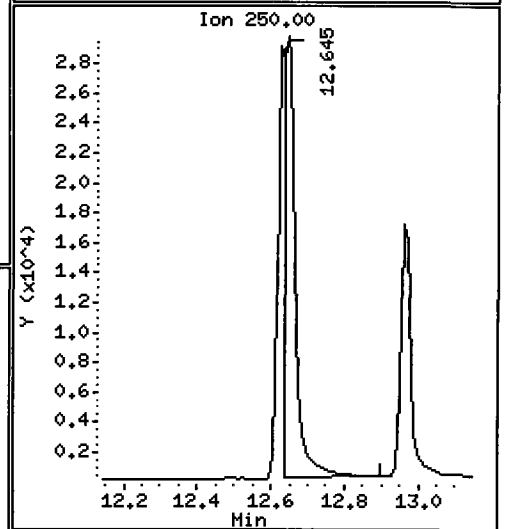
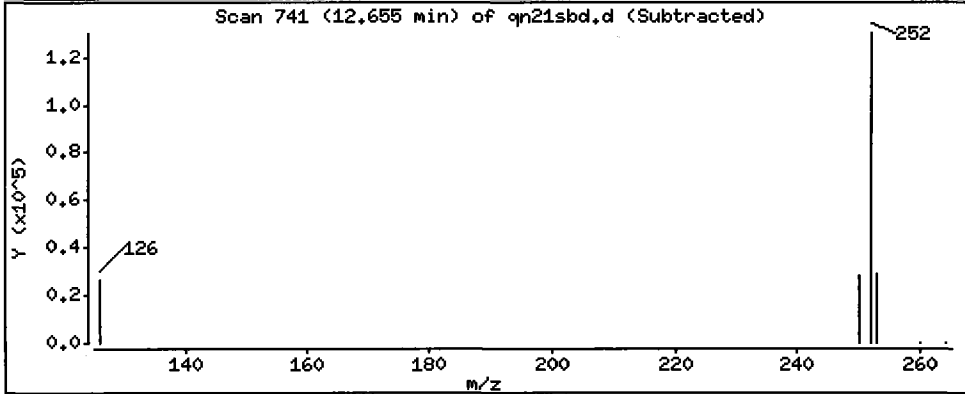
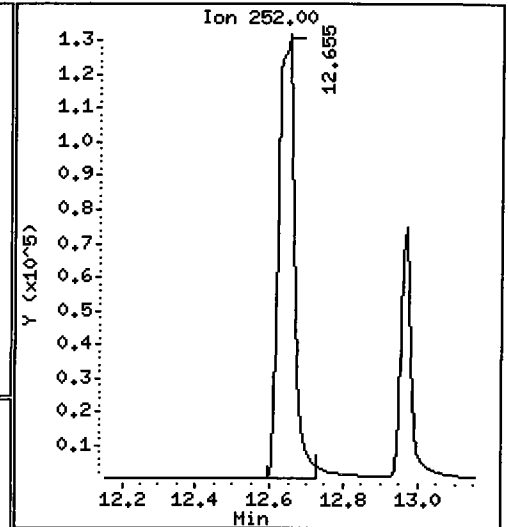
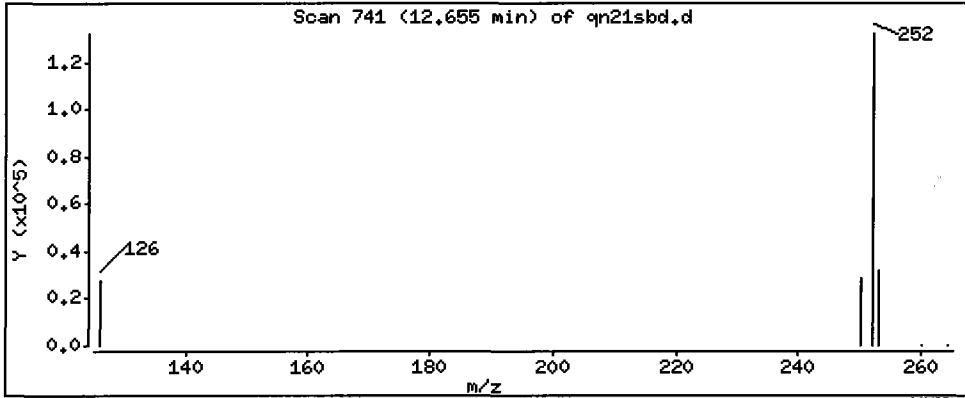
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

32 Benzo(b)fluoranthene

Concentration: 529 ug/L



Date : 22-MAR-2010 19:10

Client ID: QN21LCSDM1

Instrument: nt8.i

Sample Info: QN21LCSDM1

Volume Injected (uL): 2.0

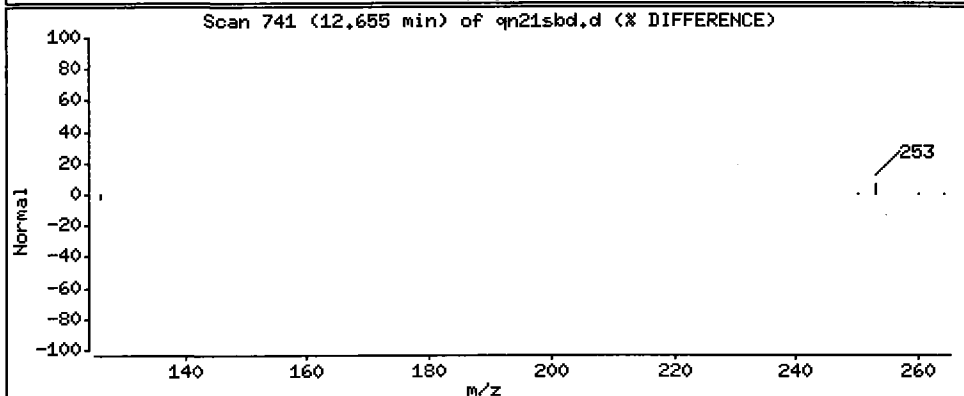
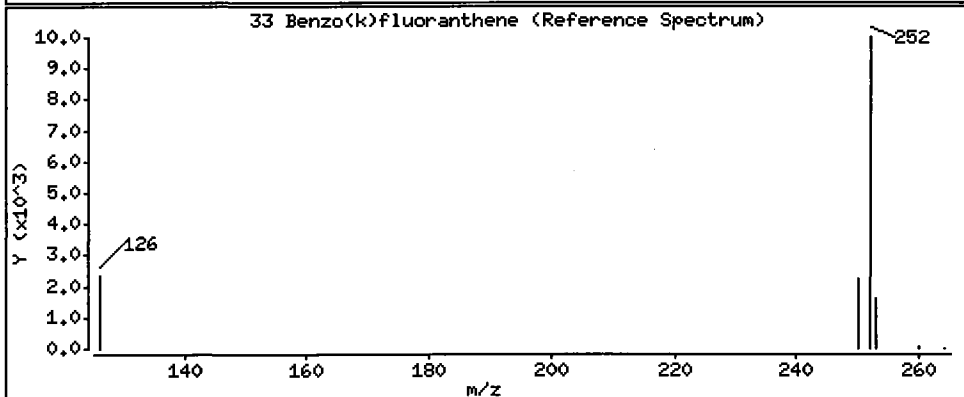
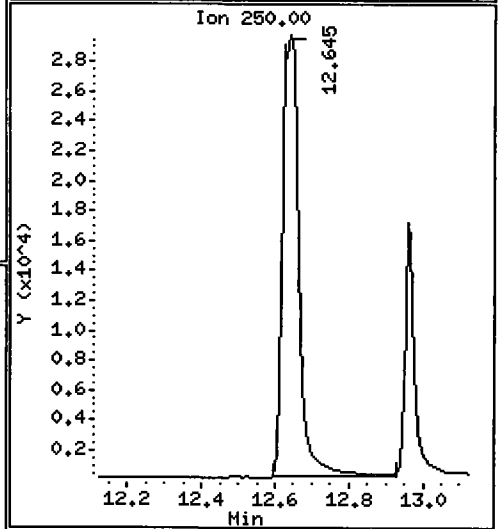
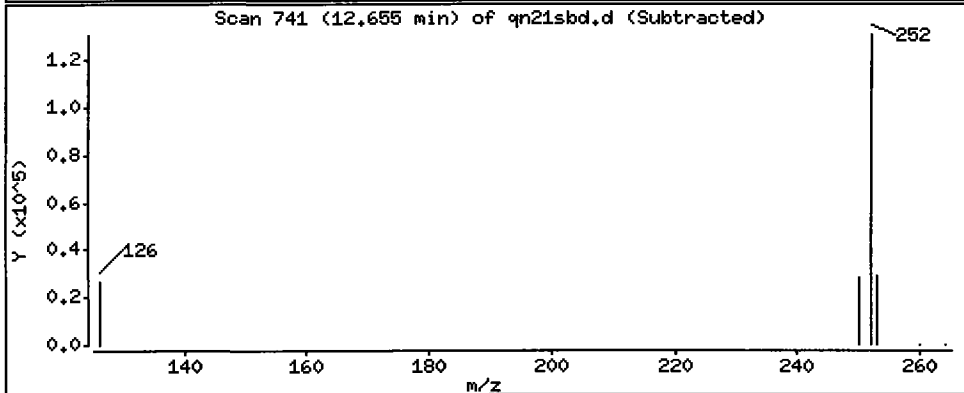
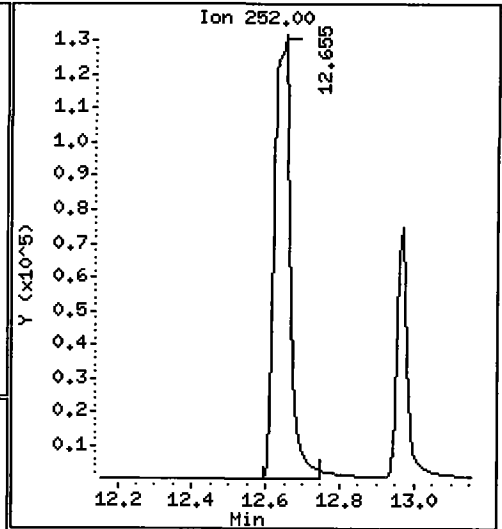
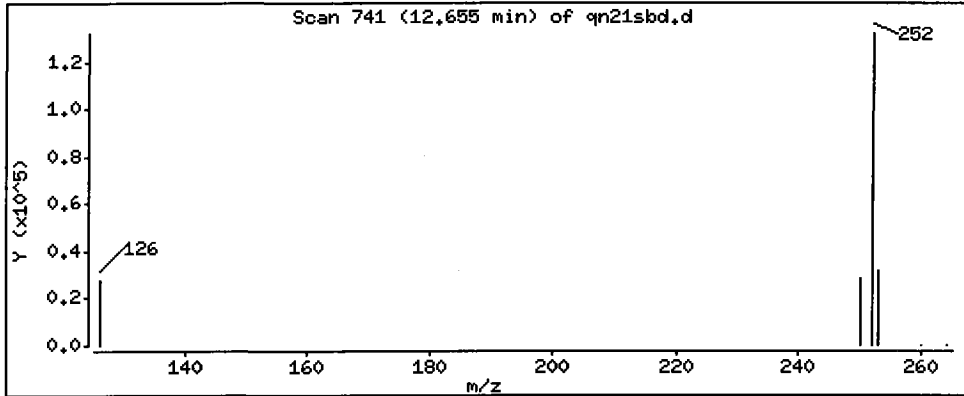
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

33 Benzo(k)fluoranthene

Concentration: 387 ug/L



ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: CB31A031010COMP

MATRIX SPIKE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized:

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 19:57

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-------|--------|
| 91-20-3 | Naphthalene | 0.010 | --- |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | --- |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | --- |
| 208-96-8 | Acenaphthylene | 0.010 | --- |
| 83-32-9 | Acenaphthene | 0.010 | --- |
| 86-73-7 | Fluorene | 0.010 | --- |
| 85-01-8 | Phenanthrene | 0.010 | --- |
| 120-12-7 | Anthracene | 0.010 | --- |
| 206-44-0 | Fluoranthene | 0.010 | --- |
| 129-00-0 | Pyrene | 0.010 | --- |
| 56-55-3 | Benzo (a) anthracene | 0.010 | --- |
| 218-01-9 | Chrysene | 0.010 | --- |
| 205-99-2 | Benzo (b) fluoranthene | 0.010 | --- |
| 207-08-9 | Benzo (k) fluoranthene | 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 | --- |
| 191-24-2 | Benzo (g, h, i) perylene | 0.010 | --- |
| 132-64-9 | Dibenzofuran | 0.010 | --- |

Reported in $\mu\text{g/L}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.3%
d14-Dibenzo (a, h) anthracene 50.7%

Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAS BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21ams.d
 Lab Smp Id: QN21AMS Client Smp ID: CB31A031010COMP MS
 Inj Date : 22-MAR-2010 19:57
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21AMS
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 13 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 (ug/L) |
| * 4 Naphthalene-d8 | 136 | 4.742 | 4.742 | (1.000) | 203961 | 200.000 | |
| 5 Naphthalene | 128 | 4.763 | 4.753 | (1.004) | 216137 | 187.414 | B 187 |
| \$ 6 2-Methylnaphthalene-d10 | 152 | 5.408 | 5.408 | (1.140) | 115649 | 181.262 | 181 |
| 7 2-Methylnaphthalene | 142 | 5.439 | 5.440 | (1.147) | 138007 | 197.441 | 197 |
| 8 1-Methylnaphthalene | 142 | 5.544 | 5.544 | (1.169) | 133741 | 186.560 | 187 |
| 10 Acenaphthylene | 152 | 6.379 | 6.379 | (0.972) | 220307 | 199.578 | 200 |
| * 11 Acenaphthene-d10 | 164 | 6.561 | 6.561 | (1.000) | 114709 | 200.000 | |
| 12 Acenaphthene | 153 | 6.585 | 6.585 | (1.004) | 138710 | 199.484 | 199 |
| 14 Dibenzofuran | 168 | 6.778 | 6.778 | (1.033) | 195722 | 208.630 | 209 |
| 15 Fluorene | 166 | 7.153 | 7.153 | (1.090) | 168199 | 228.822 | 229 |
| * 18 Phenanthrene-d10 | 188 | 8.241 | 8.241 | (1.000) | 176895 | 200.000 | |
| 19 Phenanthrene | 178 | 8.265 | 8.265 | (1.003) | 258887 | 257.307 | 257 |
| 20 Anthracene | 178 | 8.325 | 8.313 | (1.010) | 279672 | 236.631 | 237 |
| 24 Fluoranthene | 202 | 9.680 | 9.680 | (1.175) | 298979 | 291.729 | 292 |
| 25 Pyrene | 202 | 9.946 | 9.946 | (1.207) | 311961 | 294.651 | 295 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|----------------------------------|-----------|--------|----------------|---------|----------|-------------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| ----- | ---- | == | ----- | ----- | ----- | ----- | ----- |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (0.998) | 169495 | 242.235 | 242 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 117279 | 200.000 | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.002) | 224838 | 220.562 | 221 |
| 32 Benzo(b)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 313191 | Σ 379.933 <i>164.14</i> | 380(RMH) |
| 33 Benzo(k)fluoranthene | 252 | 12.634 | 12.655 | (0.970) | 313556 | Σ 276.621 <i>164.14</i> | 277(M) |
| 34 Benzo(a)pyrene | 252 | 12.968 | 12.968 | (0.996) | 128590 | 178.759 | 179 |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 107459 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.079) | 134533 | 144.098 | 144 |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.031 | 14.043 | (1.078) | 83467 | 152.206 ✓ | 152 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.055 | 14.067 | (1.079) | 105685 | 142.480 | 142 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.098) | 125501 | 151.454 | 151 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21ams.d
 Lab Smp Id: QN21AMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB31A031010COMP
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 203961 | -6.78 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 114709 | -3.96 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 176895 | -3.59 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 117279 | -3.61 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 107459 | 5.15 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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: FSI Client SDG: QN21
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: QN21AMS Client Smp ID: CB31A031010COMP MS
 Level: LOW Operator: VTS
 Data Type: MS DATA SampleType: MS
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalmn.sub
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

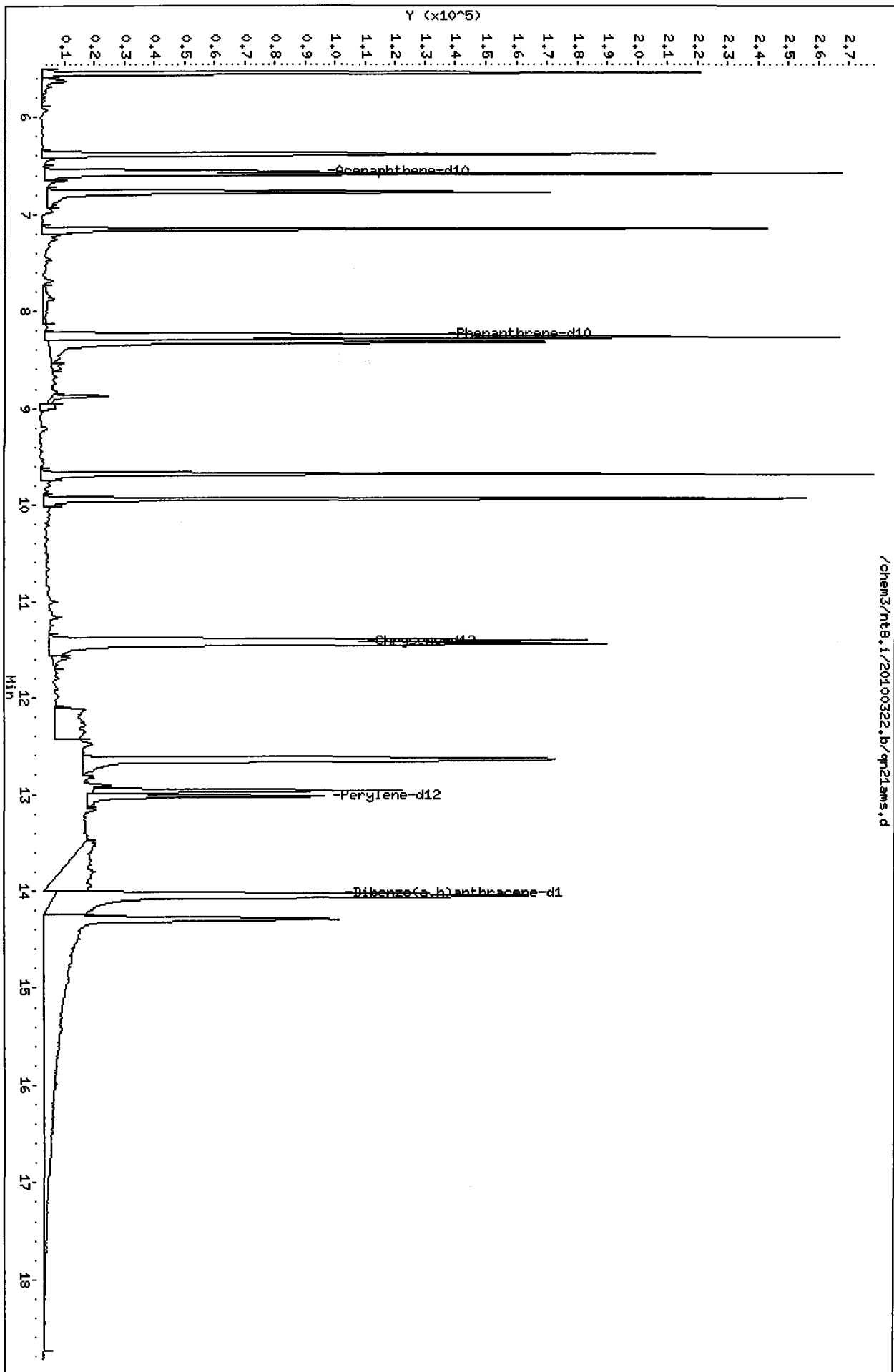
| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| 5 Naphthalene | 300 | 187 | 62.47 | 41-101 |
| 7 2-Methylnaphthalen | 300 | 197 | 65.81 | 47-100 |
| 8 1-Methylnaphthalen | 300 | 187 | 62.19 | 30-160 |
| 10 Acenaphthylene | 300 | 200 | 66.53 | 35-100 |
| 12 Acenaphthene | 300 | 199 | 66.49 | 43-104 |
| 14 Dibenzofuran | 300 | 209 | 69.54 | 37-100 |
| 15 Fluorene | 300 | 229 | 76.27 | 51-103 |
| 19 Phenanthrene | 300 | 257 | 85.77 | 55-109 |
| 20 Anthracene | 300 | 237 | 78.88 | 30-101 |
| 24 Fluoranthene | 300 | 292 | 97.24 | 49-123 |
| 25 Pyrene | 300 | 295 | 98.22 | 48-120 |
| 28 Benzo(a)anthracene | 300 | 242 | 80.74 | 43-113 |
| 30 Chrysene | 300 | 221 | 73.52 | 59-112 |
| 32 Benzo(b)fluoranthene | 300 | 380 | 126.64* | 44-121 |
| 33 Benzo(k)fluoranthene | 300 | 277 | 92.21 | 50-117 |
| 34 Benzo(a)pyrene | 300 | 179 | 59.59 | 10-100 |
| 37 Indeno(1,2,3-cd)py | 300 | 144 | 48.03 | 43-112 |
| 38 Dibenzo(a,h)anthra | 300 | 142 | 47.49 | 42-114 |
| 39 Benzo(g,h,i)perylene | 300 | 151 | 50.48 | 31-118 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 6 2-Methylnaphthalen | 300 | 181 | 60.42 | 31-109 |
| \$ 36 Dibenzo(a,h)anthra | 300 | 152 | 50.74 | 10-133 |

Data File: /chem3/nt8.i/20100322.b/qn21ams.d
Date: 22-MAR-2010 19:57
Client ID: CB314031010CQHP HS
Sample Info: QN21AMS
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25

/chem3/nt8.i/20100322.b/qn21ams.d



Date : 22-MAR-2010 19:57

Client ID: CB31A031010COMP MS

Instrument: nt8.i

Sample Info: QN21AMS

Volume Injected (uL): 2.0

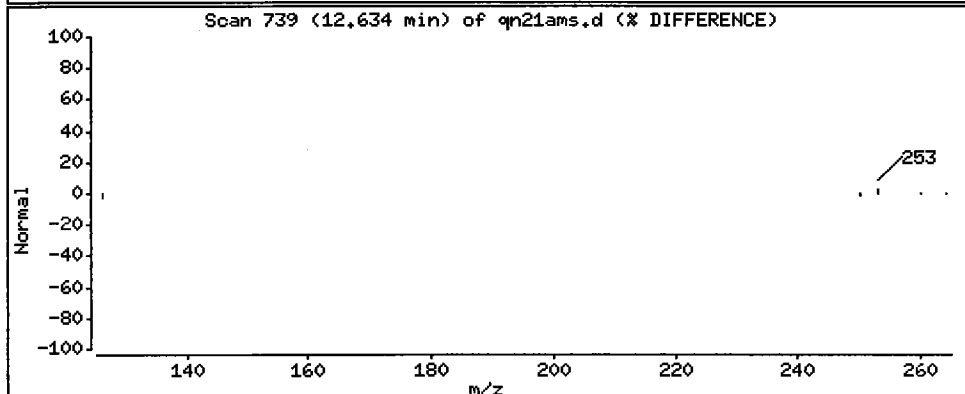
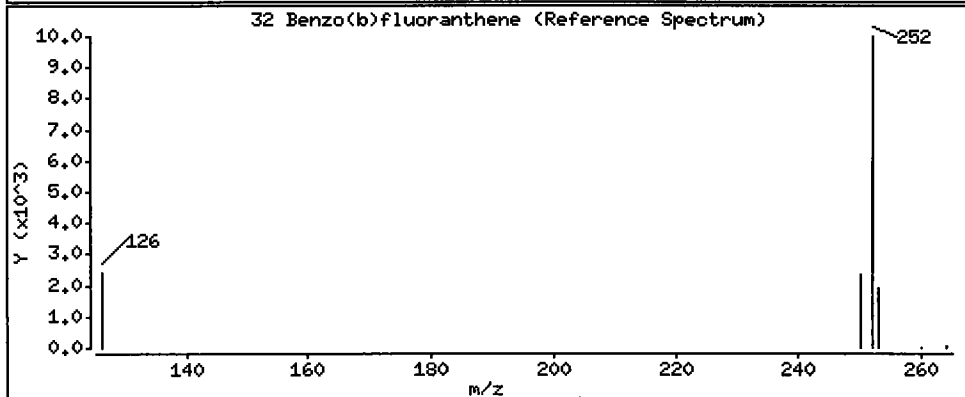
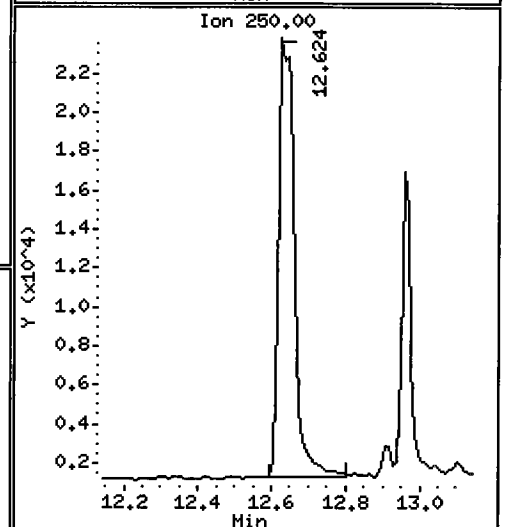
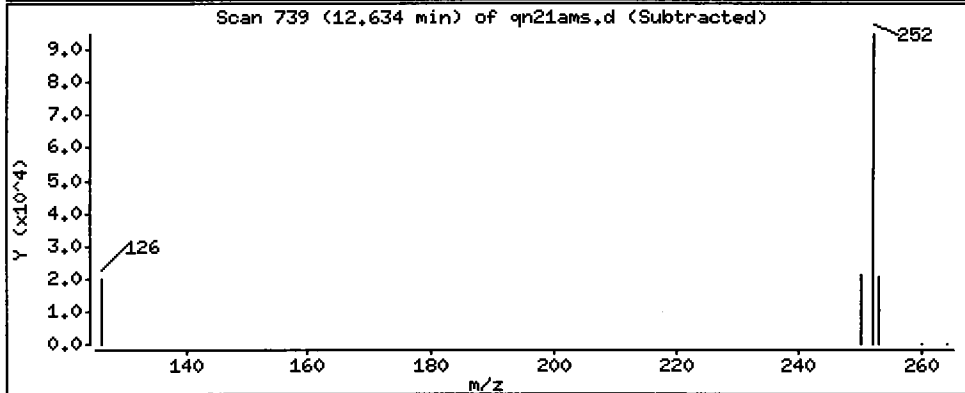
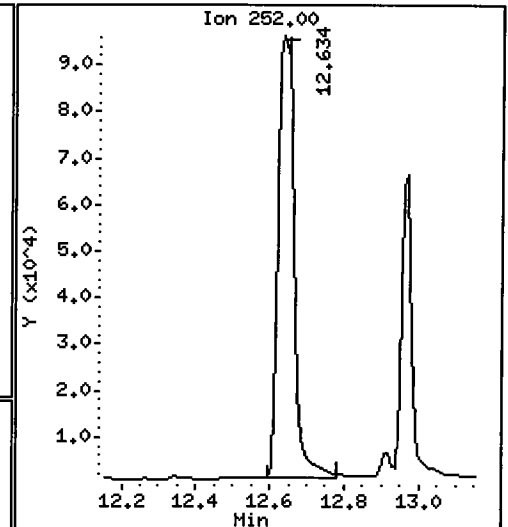
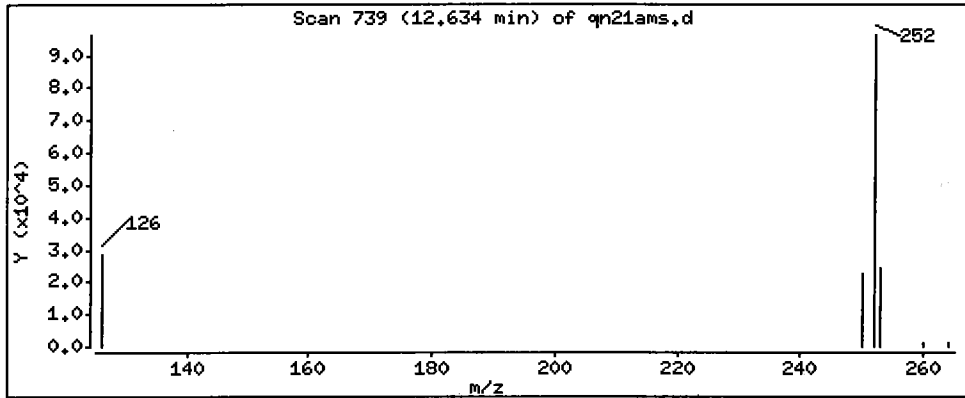
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

32 Benzo(b)fluoranthene

Concentration: 380 ug/L



Date : 22-MAR-2010 19:57

Client ID: CB31A031010COMP MS

Instrument: nt8.i

Sample Info: QN21AMS

Volume Injected (uL): 2.0

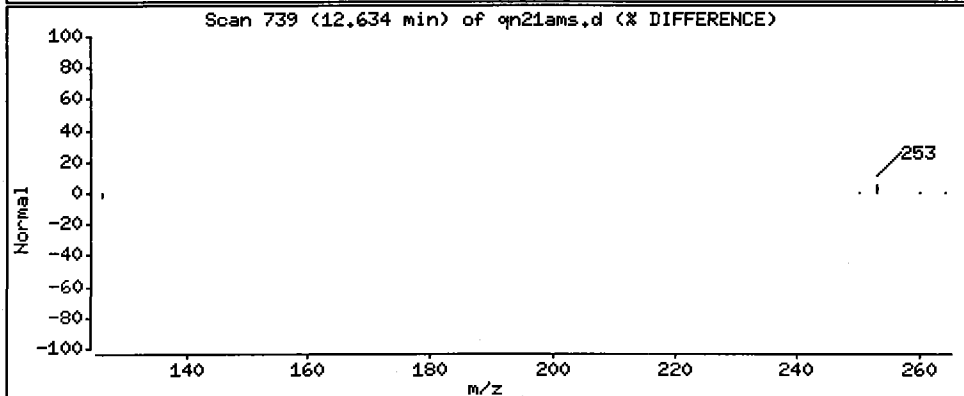
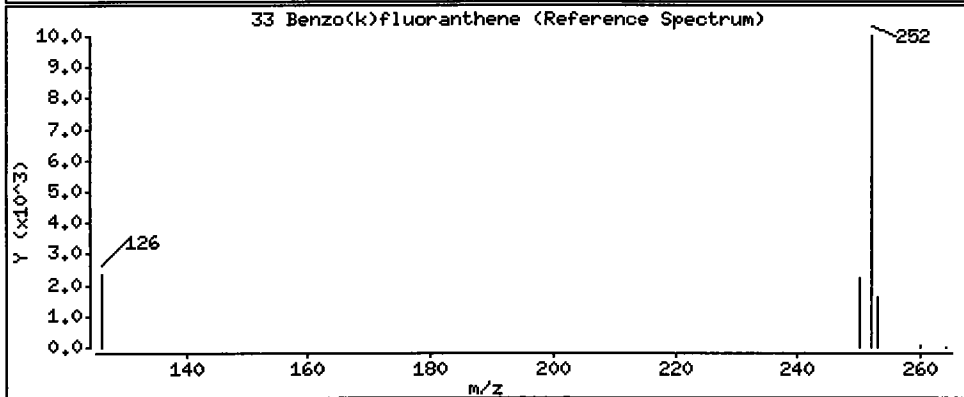
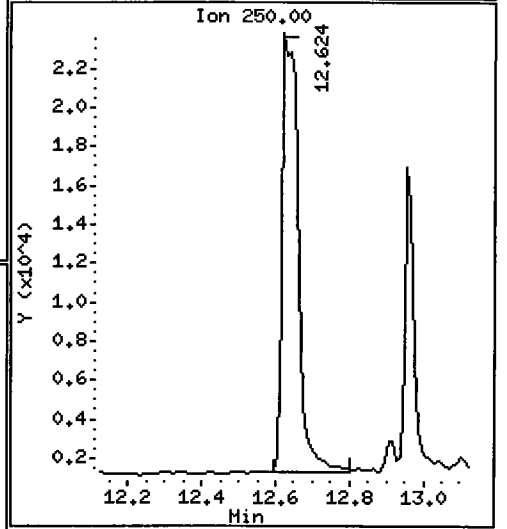
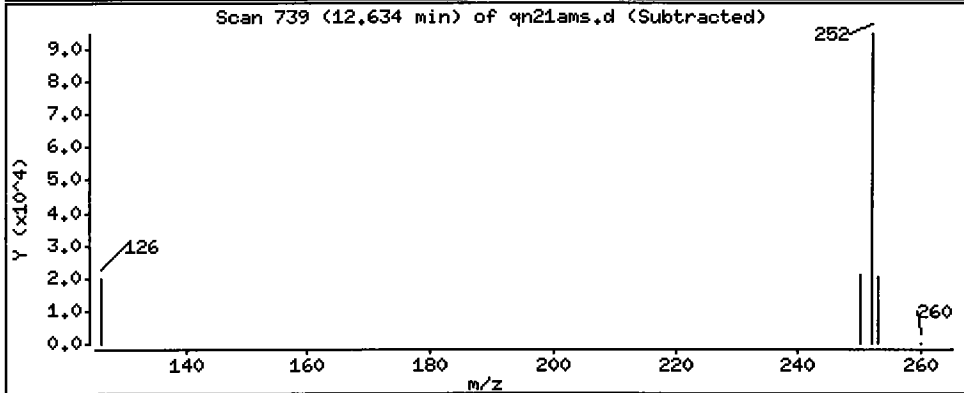
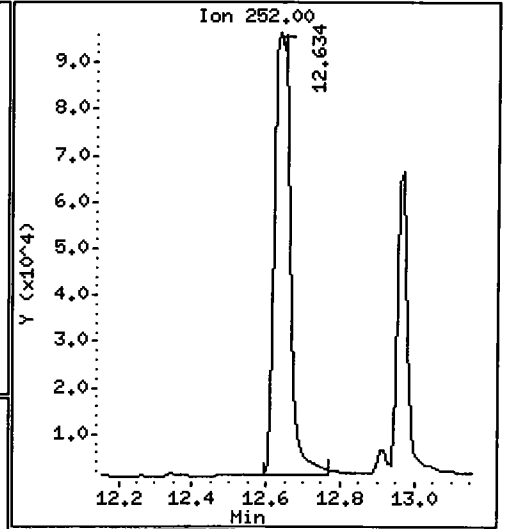
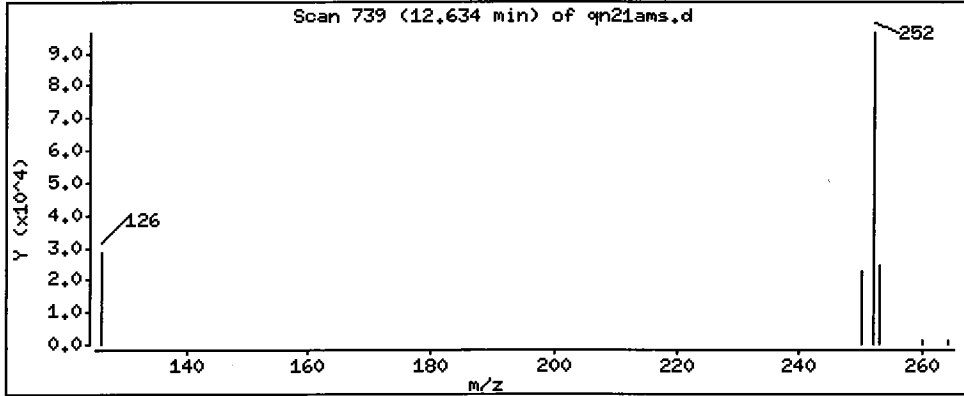
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

33 Benzo(k)fluoranthene

Concentration: 277 ug/L



ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: CB31A031010COMP

MATRIX SPIKE DUPLICATE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 03/24/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Event: NA

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/13/10

Date Analyzed: 03/22/10 20:21

Instrument/Analyst: NT8/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|------------|------------------------|-------|--------|
| 91-20-3 | Naphthalene | 0.010 | --- |
| 91-57-6 | 2-Methylnaphthalene | 0.010 | --- |
| 90-12-0 | 1-Methylnaphthalene | 0.010 | --- |
| 208-96-8 | Acenaphthylene | 0.010 | --- |
| 83-32-9 | Acenaphthene | 0.010 | --- |
| 86-73-7 | Fluorene | 0.010 | --- |
| 85-01-8 | Phenanthrene | 0.010 | --- |
| 120-12-7 | Anthracene | 0.010 | --- |
| 206-44-0 | Fluoranthene | 0.010 | --- |
| 129-00-0 | Pyrene | 0.010 | --- |
| 56-55-3 | Benzo(a)anthracene | 0.010 | --- |
| 218-01-9 | Chrysene | 0.010 | --- |
| 205-99-2 | Benzo(b)fluoranthene | 0.010 | --- |
| 207-08-9 | Benzo(k)fluoranthene | 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 | --- |
| 191-24-2 | Benzo(g,h,i)perylene | 0.010 | --- |
| 132-64-9 | Dibenzofuran | 0.010 | --- |

Reported in $\mu\text{g/L}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.3%
d14-Dibenzo(a,h)anthracene 45.7%

Analytical Resources, Inc.

YZ 3/24/10

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt8.i/20100322.b/qn21amsd.d
 Lab Smp Id: QN21AMSD Client Smp ID: CB31A031010COMP MSD
 Inj Date : 22-MAR-2010 20:21
 Operator : VTS Inst ID: nt8.i
 Smp Info : QN21AMSD
 Misc Info : 10-5974
 Comment :
 Method : /chem3/nt8.i/20100322.b/lowsim.m
 Meth Date : 24-Mar-2010 08:21 yev Quant Type: ISTD
 Cal Date : 22-MAR-2010 17:35 Cal File: ic0322f.d
 Als bottle: 14 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50
 Processing Host: cserv3

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 | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|------|-------|--------|---------|----------|-------------------|--------------|
| | | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| * 4 Naphthalene-d8 | | 136 | 4.742 | 4.742 | (1.000) | 212780 | 200.000 | |
| 5 Naphthalene | | 128 | 4.763 | 4.753 | (1.004) | 220011 | 182.867 | <i>B</i> 183 |
| \$ 6 2-Methylnaphthalene-d10 | | 152 | 5.408 | 5.408 | (1.140) | 126216 | 189.625 | 190 |
| 7 2-Methylnaphthalene | | 142 | 5.439 | 5.440 | (1.147) | 140747 | 193.015 | 193 |
| 8 1-Methylnaphthalene | | 142 | 5.543 | 5.544 | (1.169) | 138179 | 184.762 | 185 |
| 10 Acenaphthylene | | 152 | 6.391 | 6.379 | (0.974) | 235333 | 206.651 | 207 |
| * 11 Acenaphthene-d10 | | 164 | 6.560 | 6.561 | (1.000) | 118339 | 200.000 | |
| 12 Acenaphthene | | 153 | 6.597 | 6.585 | (1.006) | 146181 | 203.780 | 204 |
| 14 Dibenzofuran | | 168 | 6.778 | 6.778 | (1.033) | 201924 | 208.639 | 209 |
| 15 Fluorene | | 166 | 7.165 | 7.153 | (1.092) | 171866 | 226.638 | 227 |
| * 18 Phenanthrene-d10 | | 188 | 8.241 | 8.241 | (1.000) | 180923 | 200.000 | |
| 19 Phenanthrene | | 178 | 8.265 | 8.265 | (1.003) | 287113 | 279.007 | 279 |
| 20 Anthracene | | 178 | 8.325 | 8.313 | (1.010) | 306407 | 253.480 | 253 |
| 24 Fluoranthene | | 202 | 9.680 | 9.680 | (1.175) | 326463 | 311.455 | 311 |
| 25 Pyrene | | 202 | 9.946 | 9.946 | (1.207) | 340837 | 314.758 | 315 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|----------------------------------|-----------|--------|----------------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| 28 Benzo(a)anthracene | 228 | 11.399 | 11.399 | (0.998) | 186379 | 234.664 | 235 |
| * 29 Chrysene-d12 | 240 | 11.423 | 11.423 | (1.000) | 133122 | 200.000 | |
| 30 Chrysene | 228 | 11.447 | 11.447 | (1.002) | 246000 | 212.602 | 213 |
| 32 Benzo(b)fluoranthene | 252 | 12.624 | 12.655 | (0.970) | 327848 | 354.058 | 354 (MH) |
| 33 Benzo(k)fluoranthene | 252 | 12.624 | 12.655 | (0.970) | 331838 | 260.615 | 261 (M) |
| 34 Benzo(a)pyrene | 252 | 12.957 | 12.968 | (0.995) | 136657 | 169.120 | 169 |
| * 35 Perylene-d12 | 264 | 13.020 | 13.020 | (1.000) | 120709 | 200.000 | |
| 37 Indeno(1,2,3-cd)pyrene | 276 | 14.043 | 14.055 | (1.079) | 133999 | 127.772 | 128 (R) |
| \$ 36 Dibenzo(a,h)anthracene-d14 | 292 | 14.030 | 14.043 | (1.078) | 84154 | 136.614 | 137 |
| 38 Dibenzo(a,h)anthracene | 278 | 14.055 | 14.067 | (1.079) | 107444 | 128.952 | 129 |
| 39 Benzo(g,h,i)perylene | 276 | 14.297 | 14.297 | (1.098) | 130929 | 140.661 | 141 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i
 Lab File ID: qn21amsd.d
 Lab Smp Id: QN21AMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

Calibration Date: 22-MAR-2010
 Calibration Time: 17:59
 Client Smp ID: CB31A031010COMP
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|--------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 218805 | 109402 | 437610 | 212780 | -2.75 |
| 11 Acenaphthene-d10 | 119440 | 59720 | 238880 | 118339 | -0.92 |
| 18 Phenanthrene-d10 | 183479 | 91740 | 366958 | 180923 | -1.39 |
| 29 Chrysene-d12 | 121669 | 60834 | 243338 | 133122 | 9.41 |
| 35 Perylene-d12 | 102197 | 51098 | 204394 | 120709 | 18.11 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 4 Naphthalene-d8 | 4.74 | 4.24 | 5.24 | 4.74 | 0.00 |
| 11 Acenaphthene-d10 | 6.56 | 6.06 | 7.06 | 6.56 | 0.00 |
| 18 Phenanthrene-d10 | 8.24 | 7.74 | 8.74 | 8.24 | 0.00 |
| 29 Chrysene-d12 | 11.42 | 10.92 | 11.92 | 11.42 | 0.00 |
| 35 Perylene-d12 | 13.02 | 12.52 | 13.52 | 13.02 | 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: FSI Client SDG: QN21
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: QN21AMSD Client Smp ID: CB31A031010COMP MSD
 Level: LOW Operator: VTS
 Data Type: MS DATA SampleType: MS
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalmm.sub
 Method File: /chem3/nt8.i/20100322.b/lowsim.m
 Misc Info: 10-5974

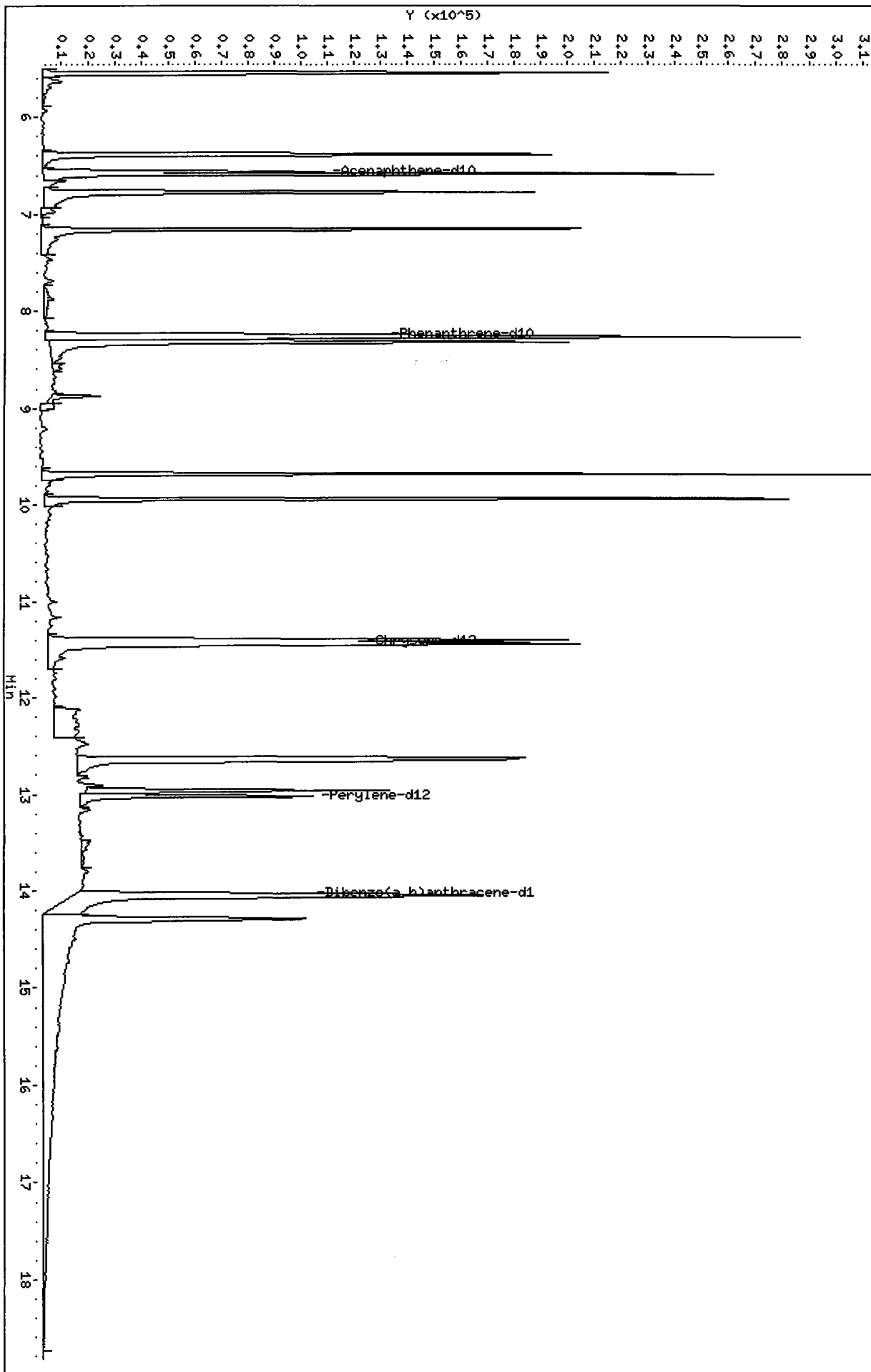
| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| 5 Naphthalene | 300 | 183 | 60.96 | 41-101 |
| 7 2-Methylnaphthalen | 300 | 193 | 64.34 | 47-100 |
| 8 1-Methylnaphthalen | 300 | 185 | 61.59 | 30-160 |
| 10 Acenaphthylene | 300 | 207 | 68.88 | 35-100 |
| 12 Acenaphthene | 300 | 204 | 67.93 | 43-104 |
| 14 Dibenzofuran | 300 | 209 | 69.55 | 37-100 |
| 15 Fluorene | 300 | 227 | 75.55 | 51-103 |
| 19 Phenanthrene | 300 | 279 | 93.00 | 55-109 |
| 20 Anthracene | 300 | 253 | 84.49 | 30-101 |
| 24 Fluoranthene | 300 | 311 | 103.82 | 49-123 |
| 25 Pyrene | 300 | 315 | 104.92 | 48-120 |
| 28 Benzo(a)anthracene | 300 | 235 | 78.22 | 43-113 |
| 30 Chrysene | 300 | 213 | 70.87 | 59-112 |
| 32 Benzo(b)fluoranthene | 300 | 354 | 118.02 | 44-121 |
| 33 Benzo(k)fluoranthene | 300 | 261 | 86.87 | 50-117 |
| 34 Benzo(a)pyrene | 300 | 169 | 56.37 | 10-100 |
| 37 Indeno(1,2,3-cd)py | 300 | 128 | 42.59* | 43-112 |
| 38 Dibenzo(a,h)anthra | 300 | 129 | 42.98 | 42-114 |
| 39 Benzo(g,h,i)perylene | 300 | 141 | 46.89 | 31-118 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 6 2-Methylnaphthalen | 300 | 190 | 63.21 | 31-109 |
| \$ 36 Dibenzo(a,h)anthra | 300 | 137 | 45.54 | 10-133 |

Data File: /chem3/nt8.i/20100322.b/qn21amsd.d
Date: 22-MAR-2010 20:21
Client ID: CB31A031010COMP HSD
Sample Info: QN21AHSJ
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt8.i
Operator: VTS
Column diameter: 0.25

/chem3/nt8.i/20100322.b/qn21amsd.d



Date : 22-MAR-2010 20:21

Client ID: CB31A031010COMP MSD

Instrument: nt8.i

Sample Info: QN21AMSD

Volume Injected (uL): 2.0

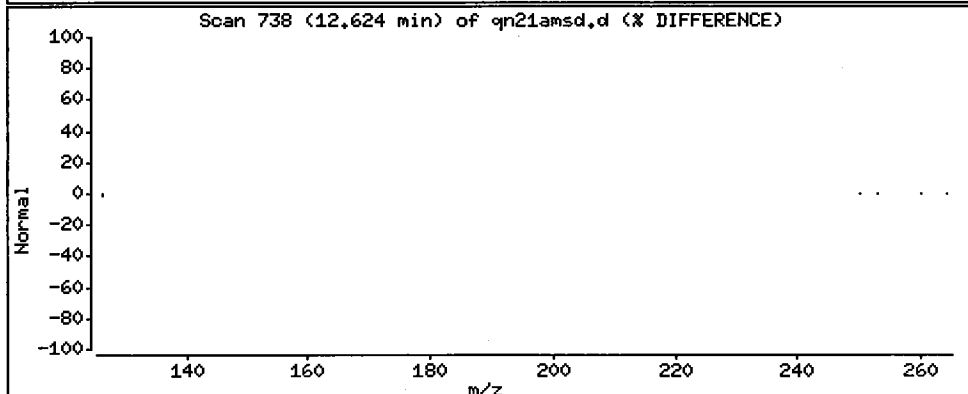
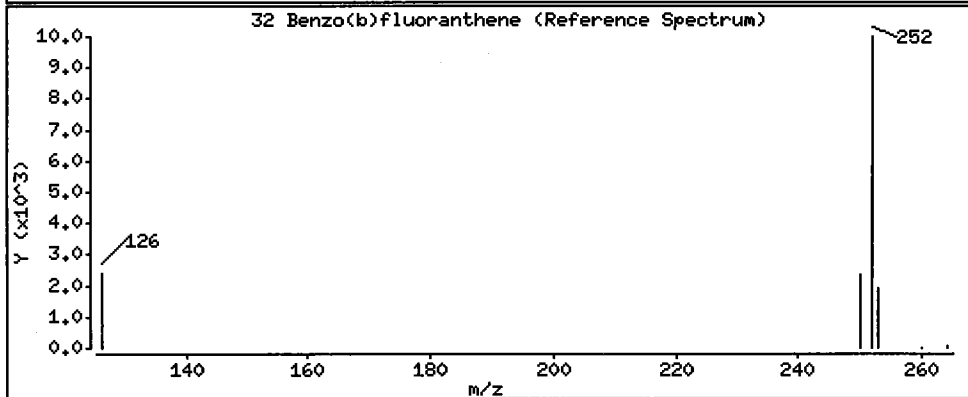
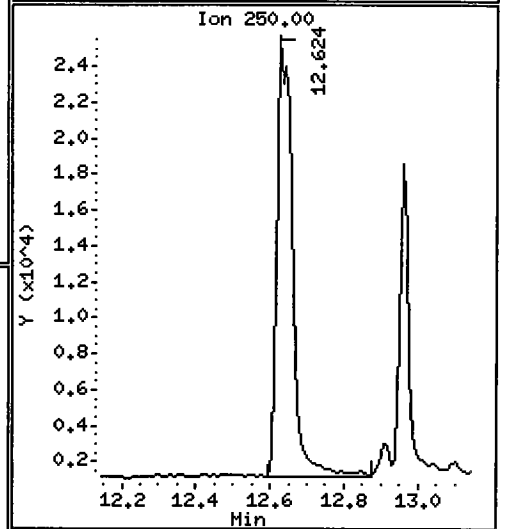
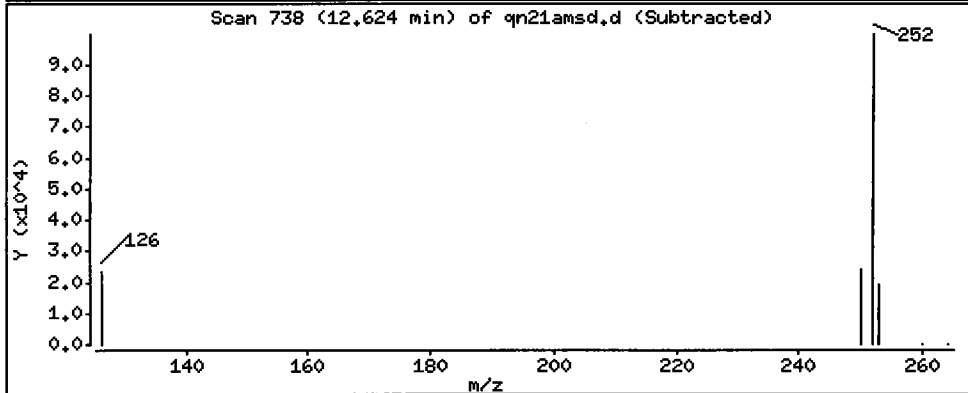
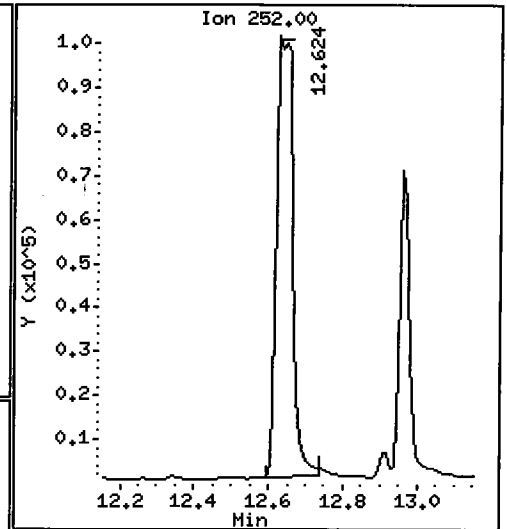
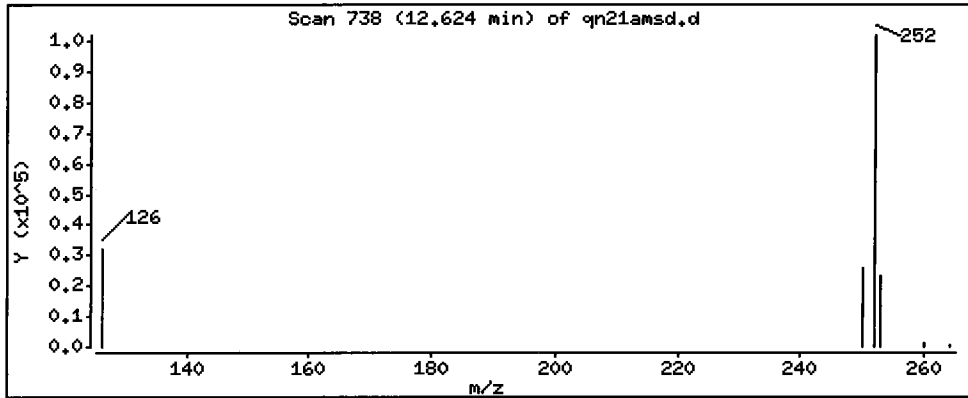
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

32 Benzo(b)fluoranthene

Concentration: 354 ug/L



Date : 22-MAR-2010 20:21

Client ID: CB31A031010COMP MSD

Instrument: nt8.i

Sample Info: QN21AMSD

Volume Injected (uL): 2.0

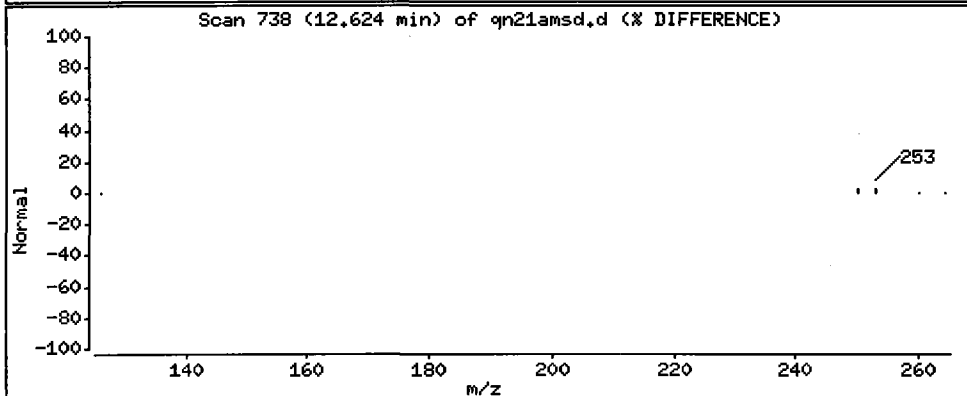
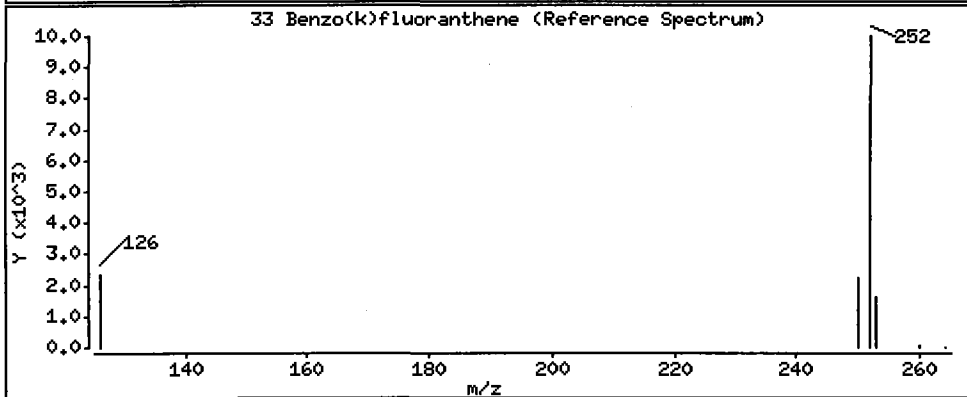
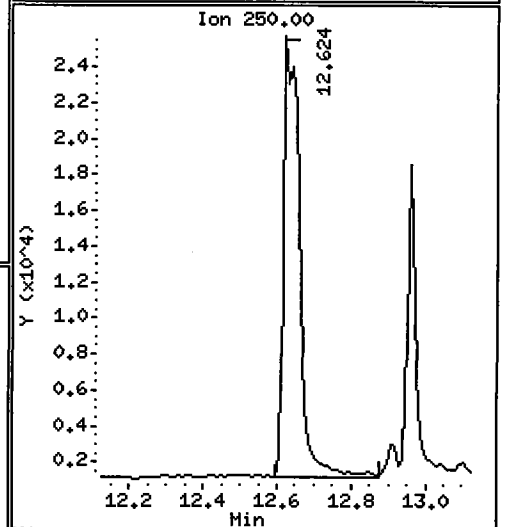
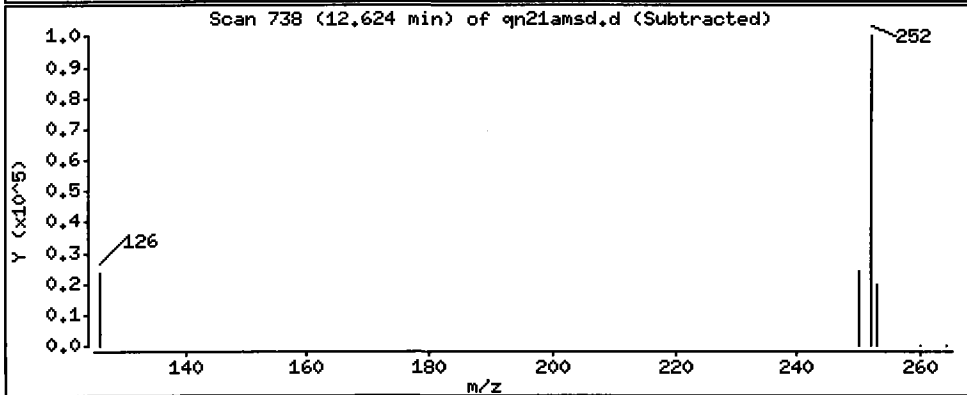
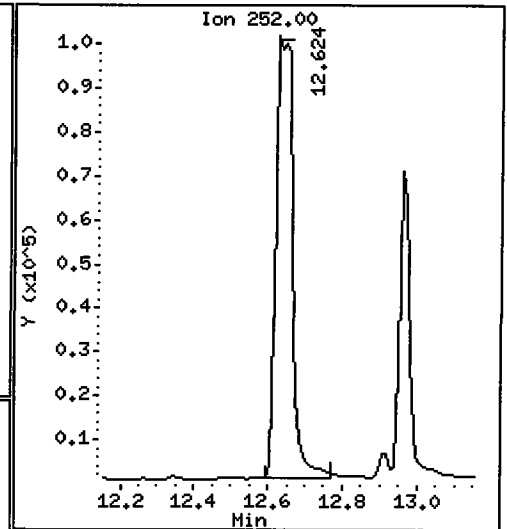
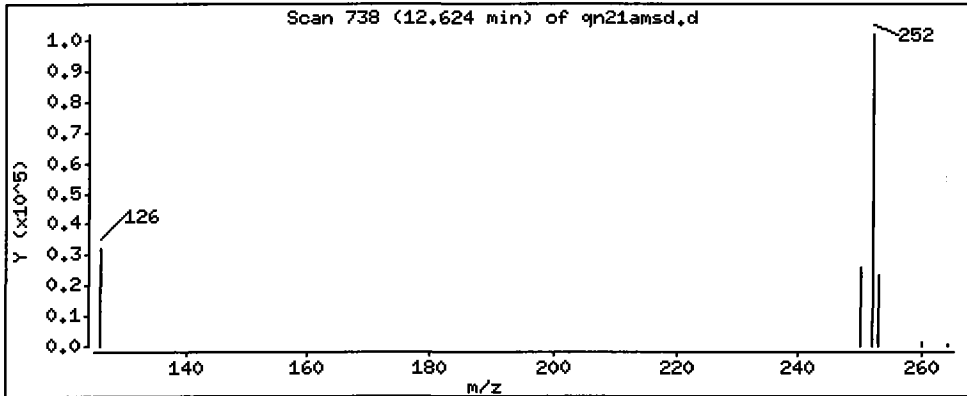
Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

33 Benzo(k)fluoranthene

Concentration: 261 ug/L



SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



Preparation Test SIM PNA # 4

ARI Job No(s) QN21

Low Level (0.01ppb)

Batch set up by: JS

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | Disassemble Liq/Liq | KD Hex X | TurboVap 1 2 3 | (REQ) Silica Gel Clean (1:1) | TurboVap 1 2 3 | Final Effective Volume | Volume to Lab | Comments |
|----------|-------------------------|------------------|------------------|---------------------|----------|----------------|------------------------------|----------------|------------------------|---------------|----------|
| | QN21 MBW | Date 3/15/10 | 500mL | | | | | | 0.5mL | 0.5mL | |
| | SBW | | ↓ | | | | | | ↓ | ↓ | |
| | SBW Dup. | | ↓ | | | | | | ↓ | ↓ | |
| 3, 5, 8 | A | checked | | | | | | | | | |
| | Am.s | | | | | | | | | | |
| | Am.s.d | | | | | | | | | | |
| 2 | B | | | | | | | | | | |
| 2 | C | | | | | | | | | | |
| 4 | D | | | | | | | | | | |

Analyst/Date: WC 3/15/10 RR 03/16/10 TS 03/17/10 VP 03/17/10 VP 03/17/10 VP 03/17/10 WD 03/17/10

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|--------|-----------------|---------|---------|
| Surrogate | I | 100µL | 8/12/14 | WC | WW |
| Spike | 18B | 100µL | 8/28/14 | WC | WW |

Extraction Time: 15:00 Liq/Liq Start: 15:20 Liq/Liq Stop: 06:10

SPECIAL INSTRUCTIONS: 1. Rinse all glassware with Low Level DCM. 2. Use 500mL Liq/Liq Body
 3. Add 20-25mL Low Level Hexane. 4. Add ~200mL Low Level DCM to Liq/Liq. 5. Add surr/spike.
 6. Extract minimum 8 hrs. 7. KD (no drying column) to ~8mL at 80°. 8. Exchange (2 X with 10mL) to Low Level Hexane at 100°. 9. TurboVap. 10. Silica Clean-up=REQUIRED. 11. TurboVap. 12. Vial in Low Level DCM.
 13. Post Screen extracts with any color noted for Silica Gel Clean-up.

Archive Y/N

Analytical Resources Inc.: Organics Instrument Log

NT-8 Serial No.: GC=CN10540013, MS=US80138354

Date: 3/22/2010 Analysis: LL SIM PMA Analyst: VZ
 GC Program: Low SIM Column No: 165242 Column Type: ZB5msi
 Instrument Tune (.U or .CT.): 100219 EM Voltage: 1953
 Calibration File: DF0322A Curve Date: _____

| | | |
|---------------|---------------|---------|
| IS/SS | Ical/Ccal | LCS/ICV |
| <u>1706-3</u> | <u>1665-3</u> | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt8.i/20100322.b

| Time | Filename | LabID | ClientId | DF |
|---------|-------------|-----------|--------------|---|
| 1 1521 | df0322a.d | DF0322A | | 1 NO ISTDS FOUND |
| 2 1537 | ic0322a.d | IC0322A | | 1 4.74 218805 6.56 119440 8.24 183479 11.42 121669 13.03 102197 |
| 3 1600 | ic0322b.d | IC0322B | | 1 4.74 229256 6.56 115847 8.24 179911 11.41 128680 13.02 108765 |
| 4 1624 | ic0322c.d | IC0322C | | 1 4.74 191625 6.56 103635 8.24 161026 11.42 100159 13.03 86610 |
| 5 1648 | ic0322d.d | IC0322D | | 1 4.74 215378 6.56 114294 8.24 177085 11.42 123272 13.02 106029 |
| 6 1712 | ic0322e.d | IC0322E | | 1 4.74 203071 6.56 109309 8.24 165597 11.42 103283 13.03 95294 |
| 7 1735 | ic0322f.d | IC0322F | | 1 4.74 196247 6.56 105666 8.24 155775 11.42 103111 13.03 89821 |
| 8 1759 | ic0322icv.d | IC0322ICV | | 1 4.74 200151 6.56 106361 8.24 169703 11.42 105931 13.02 86370 |
| 9 1823 | qn21mb.d | QN21MBW1 | QN21MBW1 | 1 4.74 192963 6.56 104113 8.24 158821 11.42 106343 13.03 93285 |
| 10 1846 | qn21sb.d | QN21LCSW1 | QN21LCSW1 | 1 4.74 210277 6.56 114535 8.24 177509 11.42 118443 13.03 110104 |
| 11 1910 | qn21sbd.d | QN21LCSW1 | QN21LCSW1 | 1 4.74 207630 6.56 114275 8.24 173398 11.42 113265 13.02 106904 |
| 12 1934 | qn21a.d | QN21A | CB31A031010C | 1 4.74 212612 6.56 112428 8.24 171875 11.42 125933 13.02 115279 |
| 13 1957 | qn21ams.d | QN21AMS | CB31A031010C | 1 4.74 203961 6.56 114709 8.24 176895 11.42 117279 13.02 107459 |
| 14 2021 | qn21amsd.d | QN21AMSD | CB31A031010C | 1 4.74 212780 6.56 118339 8.24 180923 11.42 133122 13.02 120709 |
| 15 2045 | qn21b.d | QN21B | CB4857031010 | 1 4.74 208367 6.56 113388 8.24 168281 11.42 116414 13.02 112899 |
| 16 2108 | qn21c.d | QN21C | CB1031010COM | 1 4.74 208147 6.56 113668 8.24 172296 11.42 124177 13.03 113065 |
| 17 2132 | qn21d.d | QN21D | CB101031010C | 1 4.74 214012 6.56 113375 8.24 169776 11.42 116373 13.02 115509 |

clipped ~ 5" of the columns, new liner, new septum

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC0322A
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: LL SIM PNA curve Client ID: ARI

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): L. L SIM PNA

Instrument: NT-1 NT-2 NT-4 NT-6 NT-8

Curve Date: 03/22/10 Analysis Start Date: 03/22/10

| | | | |
|---|----------------------|-----------------------------------|-----------------|
| 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? | YES / NO |
| Peak Tailing Factor ≤2? | <u>YES</u> / NO / NA | LCS / LCSD Recovery In Control? | YES / NO |
| ICal acceptable <u>YES</u> / NO; Q flag applied <u>YES</u> / NO | | Surrogate Recovery In Control? | YES / NO |
| CCal acceptable <u>YES</u> / NO; Q flag applied <u>YES</u> / NO | | Special Analysis Criteria Met? | YES / NO / NA |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 points curve, all ASDL20%

Additional Details on Reverse: Yes (No)

Analyst Signature: YZ Date: 3/24/10

Reviewer's Signature: [Signature] Date: 3/24/10



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: Q21 Client ID: Floyd - Spider

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): L. L. SIMPNA

Instrument: NT-1 NT-2 NT-4 NT-6 NT-8

Curve Date: 03/22/10 Analysis Start Date: 03/22/10

| | | | |
|---|----------------------|-----------------------------------|----------------------|
| 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; Q flag applied <u>YES</u> / NO | | Surrogate Recovery In Control? | <u>YES</u> / NO |
| CCal acceptable <u>YES</u> / NO; Q flag applied <u>YES</u> / NO | | Special Analysis Criteria Met? | <u>YES</u> / NO / NA |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

*Naphthalene in mbw @ I flag level.
Naphthalene reported with "B" flag in all samples +
ms/msd.*

Additional Details on Reverse: Yes No

Analyst Signature: YZ Date: 3/24/10

Reviewer's Signature: [Signature] Date: 3/24/10

PCP/Chlorophenols ANALYSIS
QC Summary Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

| <u>Client ID</u> | <u>TBP</u> | <u>TOT OUT</u> |
|---------------------|------------|----------------|
| MB-031610 | 60.4% | 0 |
| LCS-031610 | 62.6% | 0 |
| LCSD-031610 | 48.4% | 0 |
| CB31A031010COMP | 55.2% | 0 |
| CB31A031010COMP MS | 61.6% | 0 |
| CB31A031010COMP MSD | 61.6% | 0 |
| CB4857031010COMP | 52.0% | 0 |
| CB1031010COMP | 54.8% | 0 |
| CB101031010COMP | 60.4% | 0 |

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol


(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 10-5974 to 10-5977

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MS/MSD

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted MS/MSD: 03/16/10
Date Analyzed MS: 03/17/10 15:14
MSD: 03/17/10 15:34
Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR


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

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|-------------------|--------|------|----------------|-------------|------|-----------------|--------------|------|
| Pentachlorophenol | 0.30 | 2.08 | 2.50 | 71.2% | 2.12 | 2.50 | 72.8% | 1.9% |

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: LCS-031610
LCS/LCSD

Lab Sample ID: LCS-031610
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments
Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted LCS/LCSD: 03/16/10
Date Analyzed LCS: 03/17/10 12:54
LCSD: 03/17/10 13:14
Instrument/Analyst LCS: ECD1/AAR
LCSD: ECD1/AAR

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

| Analyte | Spike | | LCS | Spike | | LCSD | RPD |
|-------------------|-------|-----------|----------|-------|------------|----------|------|
| | LCS | Added-LCS | Recovery | LCS | Added-LCSD | Recovery | |
| Pentachlorophenol | 2.14 | 2.50 | 85.6% | 1.94 | 2.50 | 77.6% | 9.8% |

Chlorophenols Surrogate Recovery

| | LCS | LCSD |
|----------------------|-------|-------|
| 2,4,6-Tribromophenol | 62.6% | 48.4% |

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

| |
|----------|
| QN21MBW1 |
|----------|

| | |
|-------------------------------------|--------------------------------------|
| Lab Name: ANALYTICAL RESOURCES, INC | Client: FLOYD-SNIDER |
| ARI Job No.: QN21 | Project: LORA LAKES APARTMENTS |
| Lab Sample ID: QN21MBW1 | Lab File ID: 0317A005 |
| Matrix (soil/water) LIQUID | Extraction: (SepF/Cont/Sonc) SW3510C |
| Sulfur Cleanup (Y/N) Y | Date Extracted: 03/16/10 |
| Date Analyzed (1): 03/17/10 | Date Analyzed (2): 03/17/10 |
| Time Analyzed (1): 1234 | Time Analyzed (2): 1234 |
| 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 | QN21LCSW1 | QN21LCSW1 | 03/17/10 | 03/17/10 |
| 02 | QN21LCSDW1 | QN21LCSDW1 | 03/17/10 | 03/17/10 |
| 03 | CB31A031010C | QN21A | 03/17/10 | 03/17/10 |
| 04 | CB31A031010C | QN21AMS | 03/17/10 | 03/17/10 |
| 05 | CB31A031010C | QN21AMSD | 03/17/10 | 03/17/10 |
| 06 | CB4857031010 | QN21B | 03/17/10 | 03/17/10 |
| 07 | CB1031010COM | QN21C | 03/17/10 | 03/17/10 |
| 08 | CB101031010C | QN21D | 03/17/10 | 03/17/10 |

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5

ID: 0.53 (mm)

Instrument ID: ECD1

Init. Calib. Date(s): 02/18/10 02/18/10

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

| MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 9.90 | | | | |
|---|------------------|------------------|------------------|------------|
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | S1 RT # |
| ===== | ===== | ===== | ===== | ===== |
| 01 | PCPD | 02/18/10 | 2017 | 9.90 |
| 02 | PCPA | 02/18/10 | 2037 | 9.91 |
| 03 | PCPB | 02/18/10 | 2057 | 9.91 |
| 04 | PCPC | 02/18/10 | 2117 | 9.90 |
| 05 | PCPE | 02/18/10 | 2137 | 9.90 |
| 06 | PCPF | 02/18/10 | 2156 | 9.90 |
| 07 | ZZZZZ | 02/18/10 | 2216 | 9.90 |
| 08 | PCP CCAL | 03/17/10 | 1215 | 9.91 |
| 09 | QN21MBW1 | 03/17/10 | 1234 | 9.93 |
| 10 | QN21LCSW1 | 03/17/10 | 1254 | 9.92 |
| 11 | QN21LCSDW1 | 03/17/10 | 1314 | 9.92 |
| 12 | ZZZZZ | 03/17/10 | 1414 | 9.91 |
| 13 | PCP CCAL | 03/17/10 | 1434 | 9.91 |
| 14 | CB31A031010C | 03/17/10 | 1454 | 9.91 |
| 15 | CB31A031010C | 03/17/10 | 1514 | 9.90 |
| 16 | CB31A031010C | 03/17/10 | 1534 | 9.90 |
| 17 | CB4857031010 | 03/17/10 | 1554 | 9.91 |
| 18 | CB1031010COM | 03/17/10 | 1614 | 9.91 |
| 19 | CB101031010C | 03/17/10 | 1633 | 9.91 |
| 20 | ZZZZZ | 03/17/10 | 1653 | ---- |
| 21 | PCP CCAL | 03/17/10 | 1713 | 9.91 |

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.: QN21 Project: LORA LAKES APARTMENTS
 GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 02/18/10 02/18/10

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

| MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 10.55 | | | | | |
|--|------------------|------------------|------------------|------------|-------|
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | S1 RT # | |
| ===== | | | | | |
| 01 | | PCPD | 02/18/10 | 2017 | 10.54 |
| 02 | | PCPA | 02/18/10 | 2037 | 10.55 |
| 03 | | PCPB | 02/18/10 | 2057 | 10.55 |
| 04 | | PCPC | 02/18/10 | 2117 | 10.54 |
| 05 | | PCPE | 02/18/10 | 2137 | 10.54 |
| 06 | | PCPF | 02/18/10 | 2156 | 10.54 |
| 07 | ZZZZZ | ZZZZZ | 02/18/10 | 2216 | 10.54 |
| 08 | | PCP CCAL | 03/17/10 | 1215 | 10.55 |
| 09 | QN21MBW1 | QN21MBW1 | 03/17/10 | 1234 | 10.56 |
| 10 | QN21LCSW1 | QN21LCSW1 | 03/17/10 | 1254 | 10.56 |
| 11 | QN21LCSDW1 | QN21LCSDW1 | 03/17/10 | 1314 | 10.56 |
| 12 | ZZZZZ | ZZZZZ | 03/17/10 | 1414 | 10.55 |
| 13 | | PCP CCAL | 03/17/10 | 1434 | 10.55 |
| 14 | CB31A031010C | QN21A | 03/17/10 | 1454 | 10.55 |
| 15 | CB31A031010C | QN21AMS | 03/17/10 | 1514 | 10.54 |
| 16 | CB31A031010C | QN21AMSD | 03/17/10 | 1534 | 10.54 |
| 17 | CB4857031010 | QN21B | 03/17/10 | 1554 | 10.55 |
| 18 | CB1031010COM | QN21C | 03/17/10 | 1614 | 10.55 |
| 19 | CB101031010C | QN21D | 03/17/10 | 1633 | 10.55 |
| 20 | ZZZZZ | ZZZZZ | 03/17/10 | 1653 | ---- |
| 21 | | PCP CCAL | 03/17/10 | 1713 | 10.55 |

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

* Values outside of QC limits.

PCP/Chlorophenols ANALYSIS
Sample Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21


prepared
by

Analytical Resources, Inc.

QN21 : 00245

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
SAMPLE

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 14:54
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 | 0.30 |

Reported in $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 55.2% |
|----------------------|-------|

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

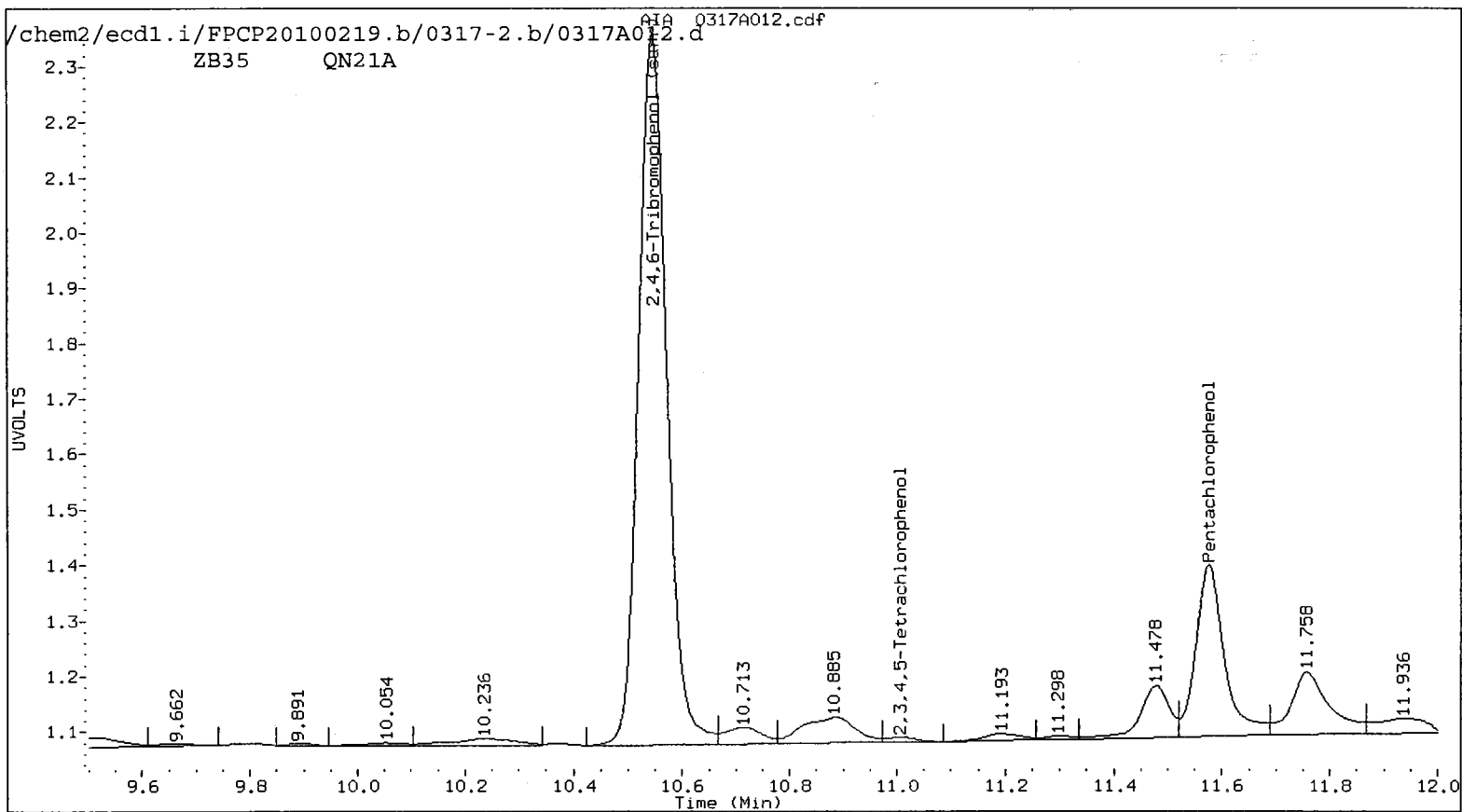
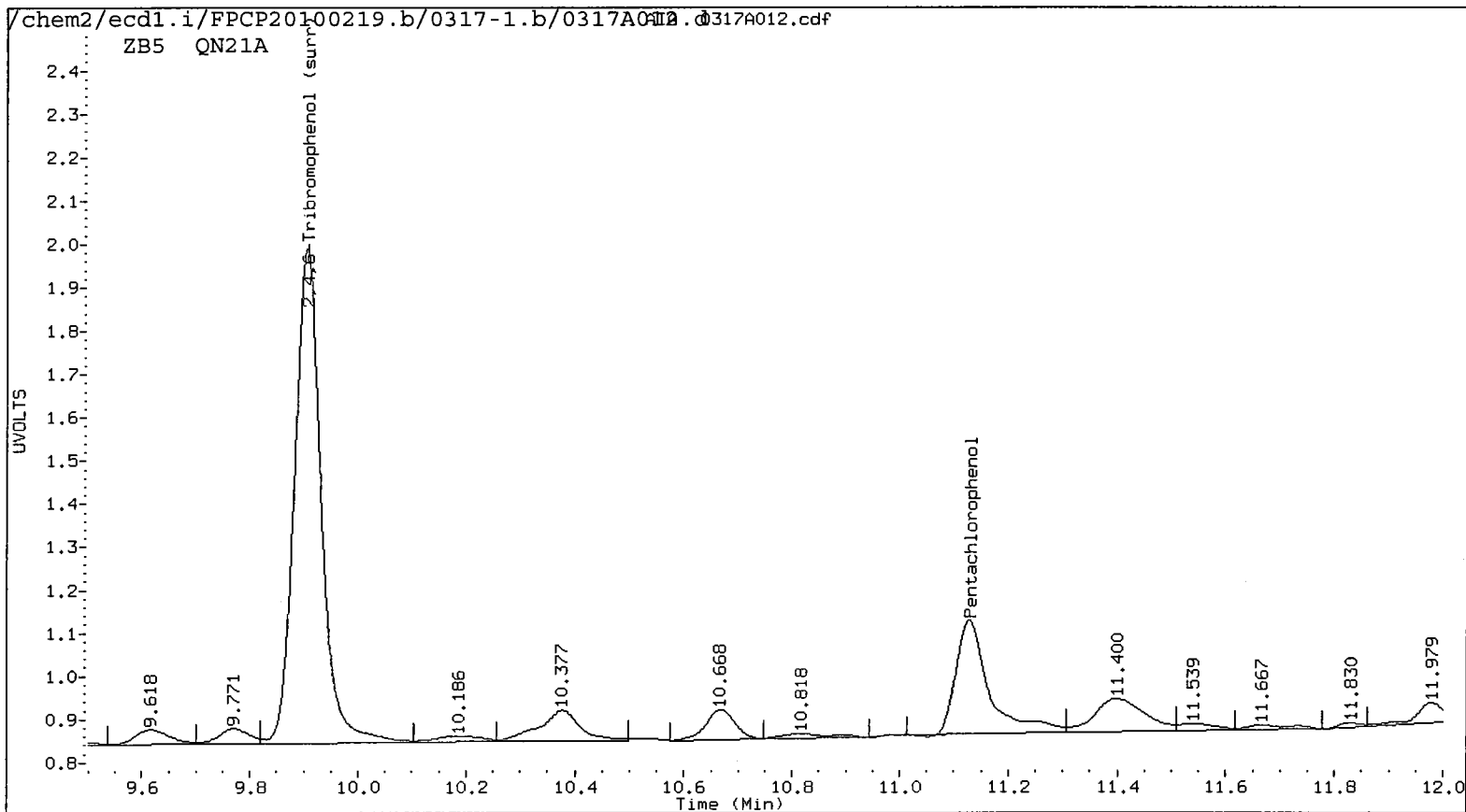
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A012.d ARI ID: QN21A
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A012.d Client ID: CB31A031010COMP
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 14:54
 Compound Sublist: all Report Date: 03/17/2010 17:06
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.129 | 0.005 | 54818 | 11.576 | 0.000 | 57323 | 2.9939 | 2.7888 | 7.1 | Pentachlorophenol |
| 7.127 | -0.063 | 19740 | 7.268 | 0.006 | 2722 | 1.9535 | 0.2394 | 156.3* | 2,4,6-Trichlorophenol |
| ----- | | | ----- | | | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| 8.198 | 0.061 | 26733 | 8.549 | 0.030 | 2556 | 5.2818 | 0.4332 | 169.7* | 2,4,5-Trichlorophenol |
| 8.647 | -0.034 | 40191 | 9.338 | 0.058 | 10302 | 5.6827 | 1.3196 | 124.6* | 2,3,4-Trichlorophenol |
| 8.950 | 0.038 | 9029 | 9.202 | 0.018 | 1998 | 0.5882 | 0.1177 | 133.3* | 2,3,5,6-Tetrachlorophenol |
| ----- | | | 11.008 | -0.016 | 1680 | 0.0000 | 0.1285 | --- | 2,3,4,5-Tetrachlorophenol |
| 6.842 | 0.025 | 8609 | 7.082 | -0.009 | 2247 | 17.4881 | 3.9842 | 125.8* | 2,4-Dichlorophenol |
| 9.905 | 0.006 | 197966 | 10.545 | -0.001 | 229921 | 13.6 | 13.8 | 1.5 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 54.2 | 55.1 |



QN21 : 00248

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB4857031010COMP
SAMPLE

Lab Sample ID: QN21B
LIMS ID: 10-5975
Matrix: Water
Data Release Authorized: *AB*
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:54
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 | < 0.25 U |

Reported in $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 52.0% |
|----------------------|-------|

Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

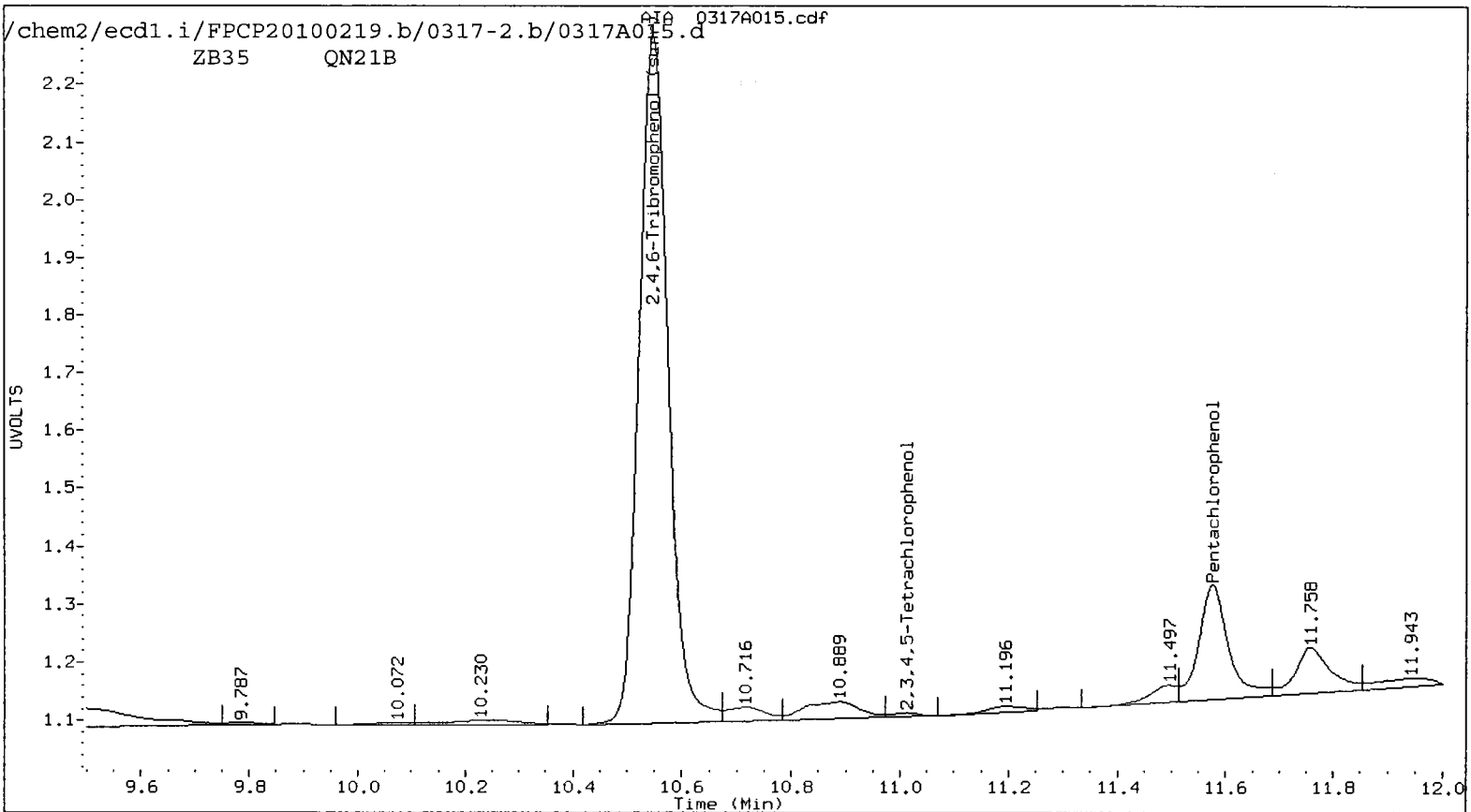
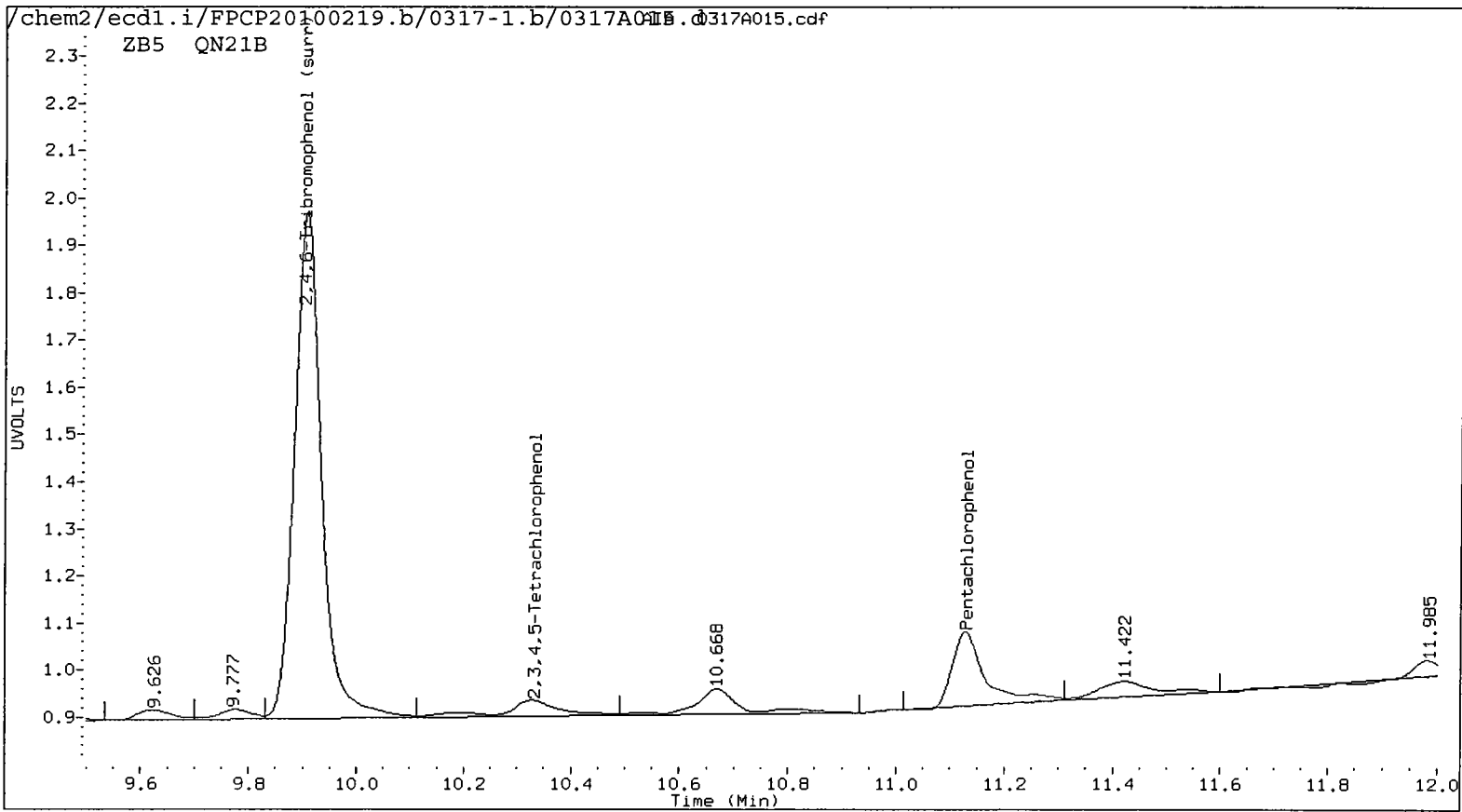
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A015.d ARI ID: QN21B
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A015.d Client ID: CB4857031010COMP
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 15:54
 Compound Sublist: all Report Date: 03/17/2010 18:56
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.132 | 0.008 | 33070 | 11.576 | 0.000 | 37935 | 1.8061 | 1.8456 | LR 2.2 | Pentachlorophenol |
| 7.142 | -0.048 | 24118 | 7.269 | 0.007 | 1791 | 2.3868 | 0.1575 | 175.2* | 2,4,6-Trichlorophenol |
| 7.572 | 0.032 | 5552 | ----- | | | 0.5541 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| ----- | | | 8.550 | 0.030 | 2095 | 0.0000 | 0.3551 | --- | 2,4,5-Trichlorophenol |
| 8.650 | -0.031 | 44571 | 9.344 | 0.063 | 6959 | 6.3019 | 0.8914 | 150.4* | 2,3,4-Trichlorophenol |
| 8.955 | 0.043 | 6312 | 9.195 | 0.011 | 1946 | 0.4112 | 0.1146 | 112.8* | 2,3,5,6-Tetrachlorophenol |
| 10.332 | 0.030 | 11988 | 11.012 | -0.012 | 1264 | 1.0208 | 0.0967 | 165.4* | 2,3,4,5-Tetrachlorophenol |
| 6.842 | 0.025 | 5405 | 7.082 | -0.009 | 1150 | 10.9802 | 2.0388 | 137.4* | 2,4-Dichlorophenol |
| 9.907 | 0.008 | 187221 | 10.547 | 0.001 | 217328 | 12.8 | 13.0 | 1.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 51.3 | 52.0 |



ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: CB1031010COMP

SAMPLE

Lab Sample ID: QN21C

LIMS ID: 10-5976

Matrix: Water

Data Release Authorized: 

Reported: 03/18/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

Date Extracted: 03/16/10

Date Analyzed: 03/17/10 16:14

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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol 54.8%

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

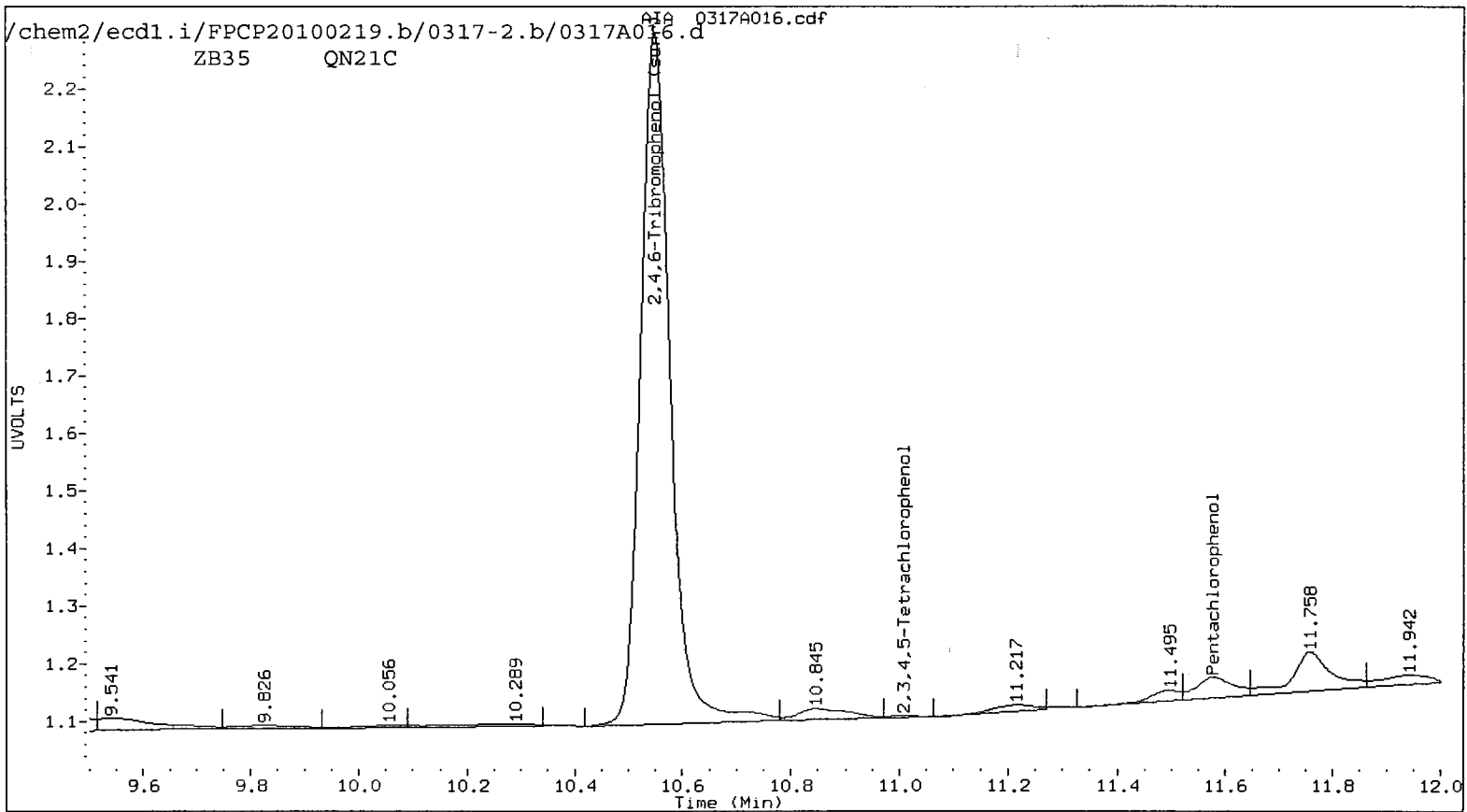
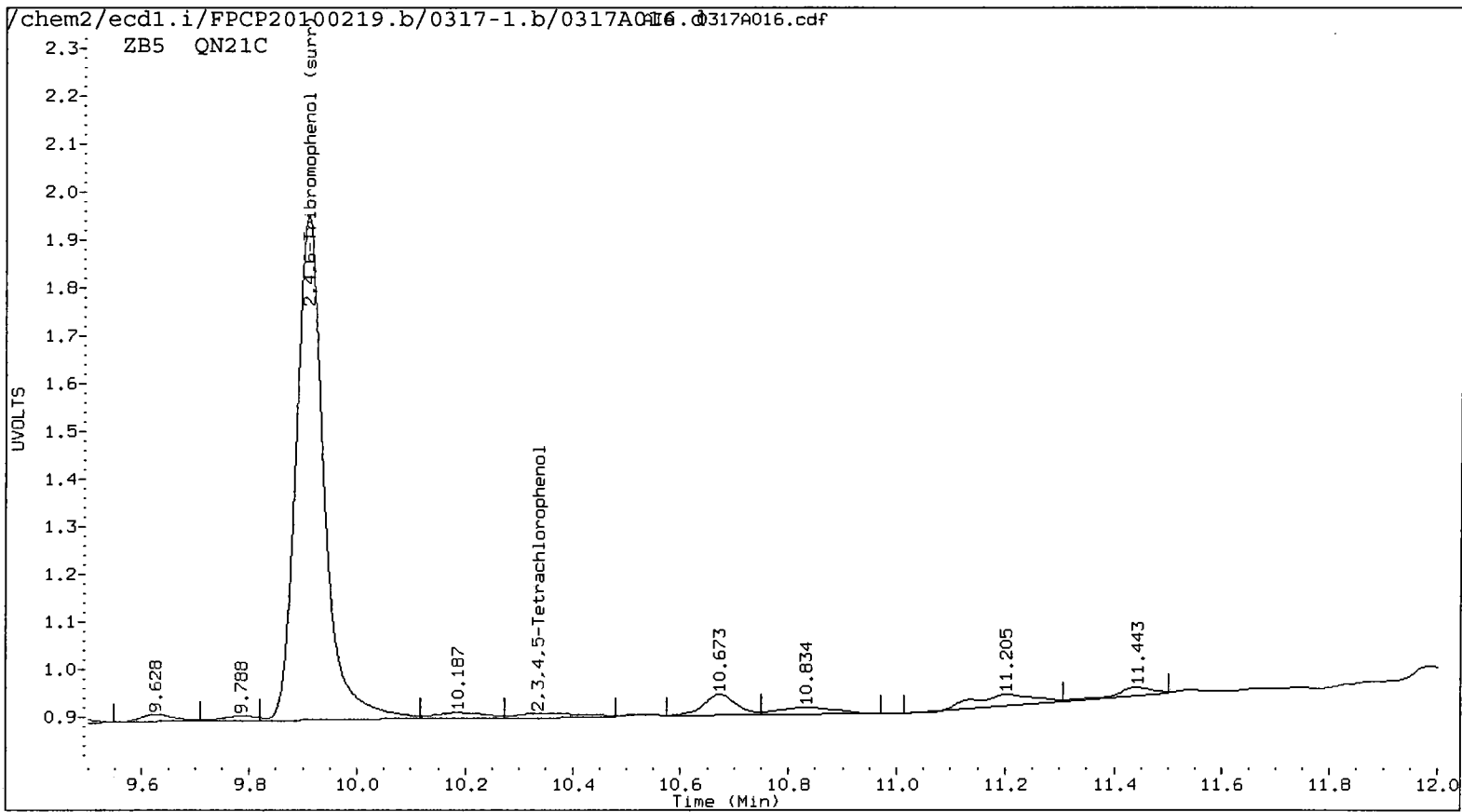
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A016.d ARI ID: QN21C
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A016.d Client ID: CB1031010COMP
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 16:14
 Compound Sublist: all Report Date: 03/17/2010 18:53
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|-------------|-----------------------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ---- | | | 11.578 | 0.002 | 8883 | 0.0000 | 0.4322 ^{RPD} | --- | Pentachlorophenol |
| 7.147 | -0.043 | 17297 | 7.272 | 0.010 | 877 | 1.7118 | 0.0771 | 182.8* | 2,4,6-Trichlorophenol |
| 7.561 | 0.021 | 4131 | 7.719 | -0.068 | 4282 | 0.4123 | 0.3797 | 8.2 | 2,3,6-Trichlorophenol |
| ---- | | | 8.550 | 0.031 | 1202 | 0.0000 | 0.2038 | --- | 2,4,5-Trichlorophenol |
| 8.659 | -0.022 | 44353 | 9.341 | 0.060 | 5232 | 6.2710 | 0.6702 | 161.4* | 2,3,4-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,5,6-Tetrachlorophenol |
| 10.337 | 0.035 | 3440 | 11.011 | -0.012 | 730 | 0.2930 | 0.0559 | 135.9* | 2,3,4,5-Tetrachlorophenol |
| 6.841 | 0.024 | 5598 | 7.076 | -0.015 | 720 | 11.3723 | 1.2770 | 159.6* | 2,4-Dichlorophenol |
| 9.909 | 0.010 | 193203 | 10.549 | 0.002 | 228061 | <u>13.2</u> | <u>13.7</u> | 3.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| ----- | | |
| 2,4,6-TBP (surr) | 52.9 | 54.6 |





ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB101031010COMP
SAMPLE

Lab Sample ID: QN21D
LIMS ID: 10-5977
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 16:33
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 60.4% |
|----------------------|-------|

Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

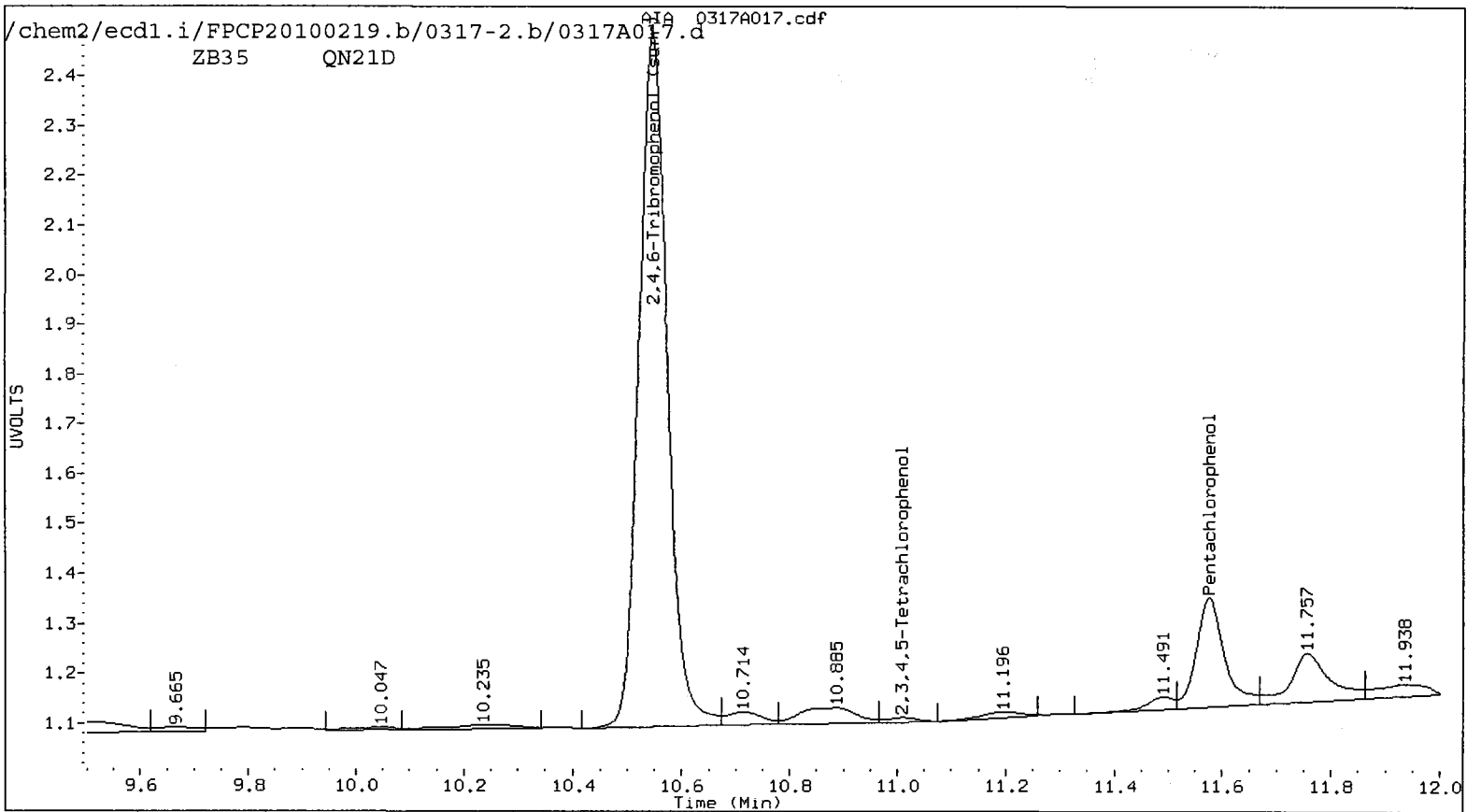
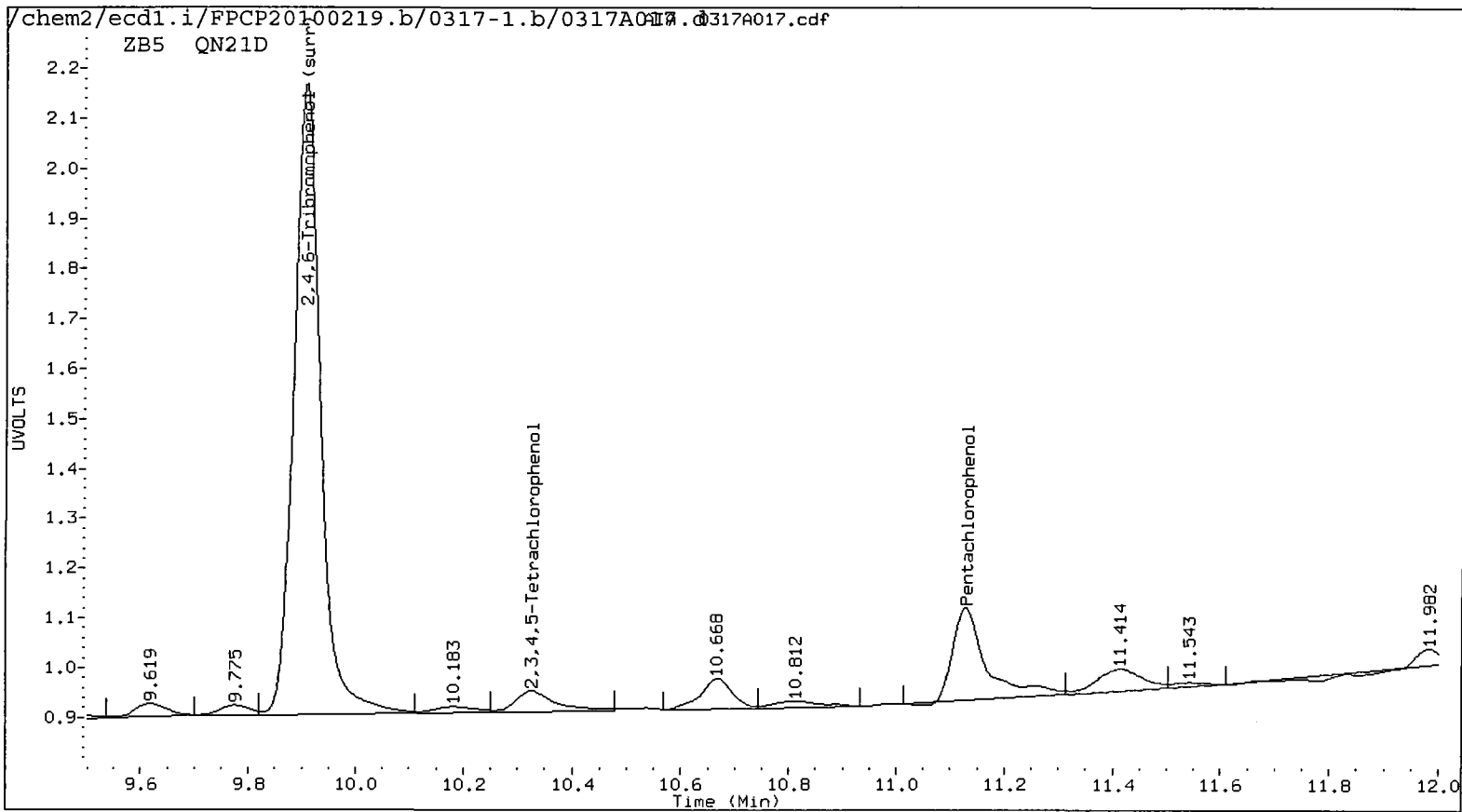
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A017.d ARI ID: QN21D
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A017.d Client ID: CB101031010COMP
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 16:33
 Compound Sublist: all Report Date: 03/17/2010 18:53
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.129 | 0.006 | 38801 | 11.576 | 0.000 | 39643 | 12.1191 | 1.9287 | 9.4 | Pentachlorophenol |
| 7.133 | -0.057 | 18066 | 7.269 | 0.007 | 1727 | 1.7879 | 0.1518 | 168.7* | 2,4,6-Trichlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| 8.203 | 0.066 | 20190 | 8.549 | 0.030 | 2014 | 3.9891 | 0.3415 | 168.5* | 2,4,5-Trichlorophenol |
| 8.643 | -0.038 | 23515 | 9.341 | 0.060 | 8197 | 3.3248 | 1.0500 | 104.0* | 2,3,4-Trichlorophenol |
| 8.951 | 0.039 | 6467 | 9.198 | 0.014 | 2128 | 0.4214 | 0.1253 | 108.3* | 2,3,5,6-Tetrachlorophenol |
| 10.326 | 0.024 | 10400 | 11.010 | -0.013 | 1686 | 0.8857 | 0.1289 | 149.2* | 2,3,4,5-Tetrachlorophenol |
| 6.841 | 0.024 | 7517 | 7.083 | -0.008 | 1396 | 15.2684 | 2.4761 | 144.2* | 2,4-Dichlorophenol |
| 9.906 | 0.007 | 217598 | 10.546 | 0.000 | 251872 | 14.9 | 15.1 | 1.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 59.6 | 60.3 |



PCP/Chlorophenols ANALYSIS
Standard Raw Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 02/18/10

| COMPOUND | RT OF STANDARDS | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|------------|-----------|-------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | FROM | TO |
| Pentachlorophenol | 11.13 | 11.13 | 11.13 | 11.12 | 11.12 | 11.13 | 11.05 | 11.19 |
| 2,4,6-Trichloropheno | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.12 | 7.26 |
| 2,3,6-Trichloropheno | 7.55 | 7.55 | 7.54 | 7.54 | 7.54 | 7.54 | 7.47 | 7.61 |
| 2,4,5-Trichloropheno | 8.16 | 8.15 | 8.14 | 8.14 | 8.14 | 8.15 | 8.07 | 8.21 |
| 2,3,4-Trichloropheno | 8.70 | 8.70 | 8.69 | 8.69 | 8.68 | 8.69 | 8.61 | 8.75 |
| 2,3,5,6-Tetrachlorop | 8.92 | 8.92 | 8.92 | 8.91 | 8.91 | 8.92 | 8.84 | 8.98 |
| 2,3,4,5-Tetrachlorop | 10.32 | 10.32 | 10.31 | 10.31 | 10.30 | 10.31 | 10.23 | 10.37 |
| 2,4-Dichlorophenol | 6.82 | 6.82 | 6.82 | 6.82 | 6.82 | 6.82 | 6.75 | 6.89 |
| 2,4,6-Tribromophenol | 9.91 | 9.91 | 9.90 | 9.90 | 9.90 | 9.90 | 9.83 | 9.97 |

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 02/18/10

| COMPOUND | RT OF STANDARDS | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|------------|-----------|-------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | FROM | TO |
| Pentachlorophenol | 11.58 | 11.58 | 11.57 | 11.57 | 11.57 | 11.57 | 11.51 | 11.65 |
| 2,4,6-Trichloropheno | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.19 | 7.33 |
| 2,3,6-Trichloropheno | 7.79 | 7.79 | 7.79 | 7.79 | 7.78 | 7.79 | 7.72 | 7.86 |
| 2,4,5-Trichloropheno | 8.52 | 8.52 | 8.52 | 8.51 | 8.51 | 8.52 | 8.45 | 8.59 |
| 2,3,4-Trichloropheno | 9.28 | 9.28 | 9.28 | 9.27 | 9.27 | 9.28 | 9.21 | 9.35 |
| 2,3,5,6-Tetrachlorop | 9.19 | 9.18 | 9.18 | 9.18 | 9.18 | 9.18 | 9.11 | 9.25 |
| 2,3,4,5-Tetrachlorop | 11.03 | 11.02 | 11.02 | 11.02 | 11.02 | 11.02 | 10.95 | 11.09 |
| 2,4-Dichlorophenol | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.02 | 7.16 |
| 2,4,6-Tribromophenol | 10.55 | 10.55 | 10.54 | 10.54 | 10.54 | 10.54 | 10.48 | 10.62 |

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 02/18/10

| COMPOUND | CALIBRATION FACTORS | | | | | | R ² / %RSD | CT |
|-----------------------|---------------------|-------|-------|-------|-------|-------|--------------------------|----|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | |
| Pentachlorophenol | 19260 | 20286 | 19708 | 18632 | 16832 | 15143 | 10.7 | A |
| 2,4,6-Trichlorophenol | 12690 | 11388 | 9439 | 10360 | 8705 | 8048 | 17.2 | A |
| 2,3,6-Trichlorophenol | 11610 | 10956 | 10515 | 10092 | 8822 | 8128 | 13.1 | A |
| 2,4,5-Trichlorophenol | 5557 | 5419 | 5418 | 5382 | 4505 | 4088 | 12.0 | A |
| 2,3,4-Trichlorophenol | 8452 | 8484 | 7742 | 6654 | 5844 | 5260 | 19.3 | A |
| 2,3,5,6-Tetrachloroph | 16891 | 16608 | 16259 | 15694 | 13938 | 12707 | 10.8 | A |
| 2,3,4,5-Tetrachloroph | 14069 | 13078 | 12346 | 11471 | 10474 | 9024 | 15.5 | A |
| 2,4-Dichlorophenol | 539 | 574 | 536 | 478 | 449 | 376 | 14.8 | A |
| 2,4,6-Tribromophenol | 16092 | 15471 | 15178 | 14700 | 13698 | 12467 | 9.0 | A |
| AVE RSD | | | | | | | 13.6 | |

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/FPCP20100219.b/ical-1.b/0218A012.d
- LVL 2: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A013.d
- LVL 3: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A014.d
- LVL 4: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A011.d
- LVL 5: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A015.d
- LVL 6: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A016.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 02/18/10

| COMPOUND | CALIBRATION FACTORS | | | | | | R ² / %RSD | CT |
|-----------------------|---------------------|-------|-------|-------|-------|-------|--------------------------|----|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | |
| Pentachlorophenol | 21892 | 22397 | 21863 | 20727 | 19095 | 17355 | 9.6 | A |
| 2,4,6-Trichlorophenol | 12480 | 12200 | 12371 | 11514 | 10380 | 9304 | 11.2 | A |
| 2,3,6-Trichlorophenol | 12934 | 12277 | 11772 | 11120 | 10187 | 9386 | 11.7 | A |
| 2,4,5-Trichlorophenol | 6873 | 6583 | 6297 | 5844 | 5218 | 4589 | 14.7 | A |
| 2,3,4-Trichlorophenol | 8997 | 8826 | 8328 | 7674 | 6874 | 6144 | 14.5 | A |
| 2,3,5,6-Tetrachloroph | 18467 | 18264 | 17819 | 17161 | 15802 | 14414 | 9.3 | A |
| 2,3,4,5-Tetrachloroph | 13447 | 14149 | 13746 | 14433 | 11943 | 10771 | 10.9 | A |
| 2,4-Dichlorophenol | 664 | 633 | 639 | 562 | 478 | 409 | 18.0 | A |
| 2,4,6-Tribromophenol | 17723 | 17320 | 17250 | 16916 | 16059 | 14968 | 6.1 | A |
| AVE RSD | | | | | | | 11.8 | |

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/ecdl.i/FPCP20100219.b/ical-2.b/0218A012.d/0218A012.cdf
 LVL 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A013.d/0218A013.cdf
 LVL 3: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A014.d/0218A014.cdf
 LVL 4: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A011.d/0218A011.cdf
 LVL 5: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A015.d/0218A015.cdf
 LVL 6: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A016.d/0218A016.cdf

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
 End Cal Date : 18-FEB-2010 21:56
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100219.b/FPCPB.m
 Cal Date : 19-Feb-2010 09:37 jrains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A012.d/0218A012.cdf
 Level 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A013.d/0218A013.cdf
 Level 3: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A014.d/0218A014.cdf
 Level 4: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A011.d/0218A011.cdf
 Level 5: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A015.d/0218A015.cdf
 Level 6: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A016.d/0218A016.cdf

| Compound | 2.500 Level 1 | 6.250 Level 2 | 12.500 Level 3 | 25.000 Level 4 | 50.000 Level 5 | 100.000 Level 6 | RRF | % RSD |
|----------------------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|-------|--------|
| 1 2,4-Dichlorophenol | 664 | 633 | 639 | 562 | 478 | 409 | 564 | 18.037 |
| 2 2,4,6-Trichlorophenol | 12480 | 12200 | 12371 | 11514 | 10380 | 9304 | 11375 | 11.253 |
| 3 2,3,6-Trichlorophenol | 12934 | 12277 | 11772 | 11120 | 10187 | 9386 | 11280 | 11.747 |
| 4 2,4,5-Trichlorophenol | 6873 | 6583 | 6297 | 5844 | 5218 | 4589 | 5901 | 14.692 |
| 5 2,3,5,6-Tetrachlorophenol | 18467 | 18264 | 17819 | 17161 | 15802 | 14414 | 16988 | 9.334 |
| 6 2,3,4-Trichlorophenol | 8997 | 8826 | 8328 | 7674 | 6874 | 6144 | 7807 | 14.469 |
| 8 2,3,4,5-Tetrachlorophenol | 13447 | 14149 | 13746 | 14433 | 11943 | 10771 | 13081 | 10.905 |
| 9 Pentachlorophenol | 21892 | 22397 | 21863 | 20727 | 19095 | 17355 | 20555 | 9.557 |
| \$ 7 2,4,6-Tribromophenol (surr) | 17723 | 17320 | 17250 | 16917 | 16059 | 14968 | 16706 | 6.098 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecdl.i/FPCP20100219.b/FPCPB.m
Cal Date : 19-Feb-2010 09:37 jrains
Curve Type : Average

| | |
|-----------------------------|----------|
| Average %RSD Results. | |
| ----- | |
| Calculated Average %RSD = | 11.78791 |
| Maximun Average %RSD = | 20.00000 |
| * Passed Average %RSD Test. | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
 End Cal Date : 18-FEB-2010 21:56
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100219.b/FPCP.m
 Cal Date : 19-Feb-2010 09:46 jrains
 Curve Type : Average

Calibration File Names:

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 Level 2: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A013.d
 Level 3: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A014.d
 Level 4: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A011.d
 Level 5: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A015.d
 Level 6: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A016.d

| Compound | 2.500 Level 1 | 6.250 Level 2 | 12.500 Level 3 | 25.000 Level 4 | 50.000 Level 5 | 100.000 Level 6 | RRF | % RSD |
|----------------------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|-------|--------|
| 1 2,4-Dichlorophenol | 539 | 575 | 536 | 479 | 449 | 376 | 492 | 14.760 |
| 2 2,4,6-Trichlorophenol | 12690 | 11388 | 9439 | 10360 | 8705 | 8048 | 10105 | 17.155 |
| 3 2,3,6-Trichlorophenol | 11610 | 10956 | 10515 | 10092 | 8822 | 8128 | 10020 | 13.139 |
| 4 2,4,5-Trichlorophenol | 5557 | 5419 | 5418 | 5382 | 4505 | 4088 | 5061 | 12.056 |
| 5 2,3,4-Trichlorophenol | 8452 | 8484 | 7742 | 6654 | 5844 | 5260 | 7073 | 19.296 |
| 6 2,3,5,6-Tetrachlorophenol | 16891 | 16608 | 16259 | 15694 | 13938 | 12707 | 15349 | 10.856 |
| 8 2,3,4,5-Tetrachlorophenol | 14069 | 13078 | 12346 | 11471 | 10474 | 9024 | 11744 | 15.530 |
| 9 Pentachlorophenol | 19260 | 20286 | 19708 | 18632 | 16832 | 15143 | 18310 | 10.669 |
| \$ 7 2,4,6-Tribromophenol (surr) | 16092 | 15471 | 15178 | 14700 | 13698 | 12467 | 14601 | 9.030 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecdl.i/FPCP20100219.b/FPCP.m
Cal Date : 19-Feb-2010 09:46 j rains
Curve Type : Average

Average %RSD Results.

Calculated Average %RSD = 13.46642

Maximun Average %RSD = 20.00000

* Passed Average %RSD Test.

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

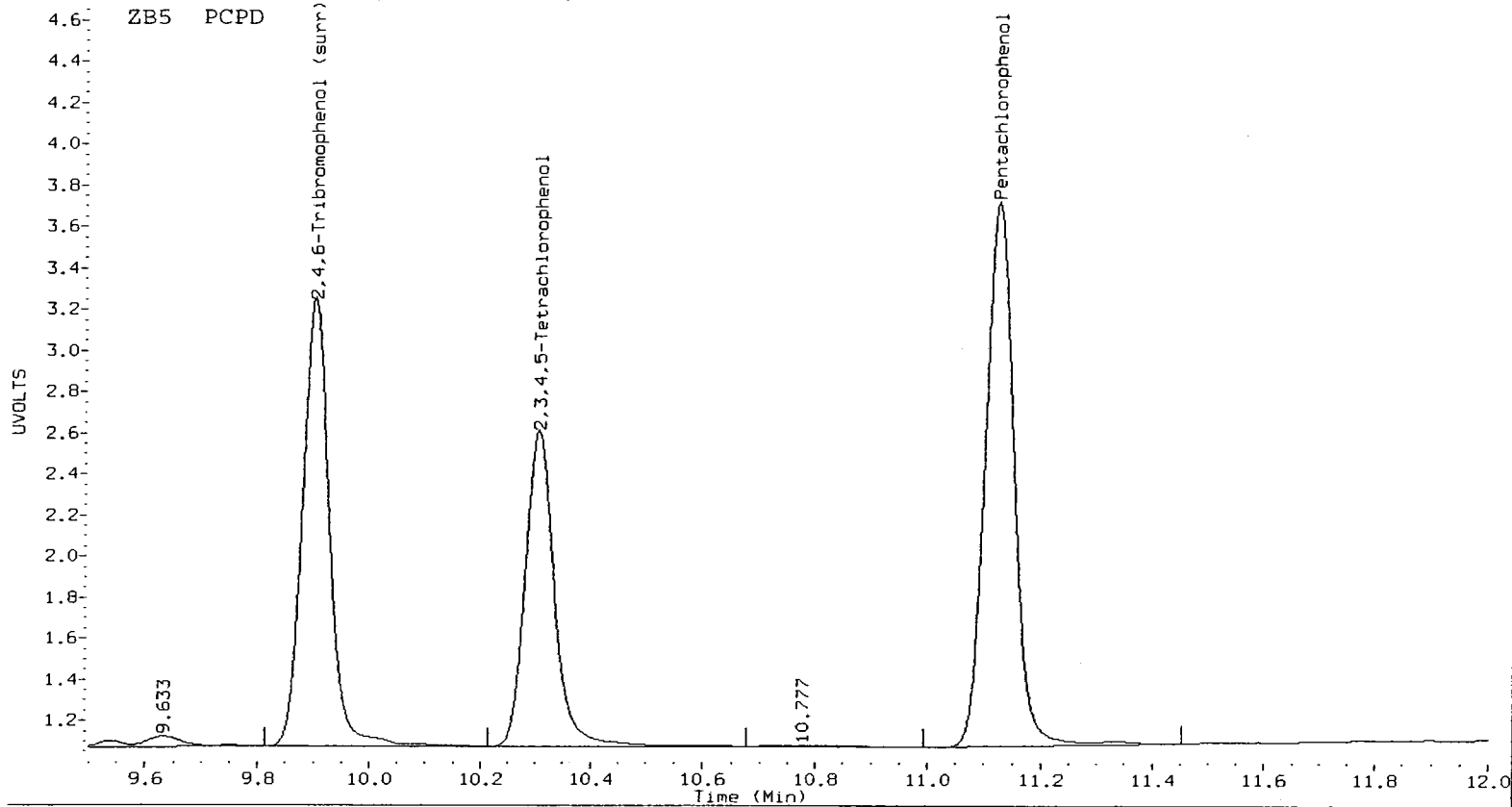
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:17
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|--------|----------|----------------|----------------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.125 | 0.002 | 465799 | 11.573 | -0.003 | 518187 | <u>25.0000</u> | <u>25.2100</u> | 0.8 | Pentachlorophenol |
| 7.190 | 0.000 | 258988 | 7.261 | -0.001 | 287844 | 25.0000 | 23.2129 | 7.4 | 2,4,6-Trichlorophenol |
| 7.544 | 0.004 | 252304 | 7.785 | -0.002 | 278010 | 25.0000 | 24.1939 | 3.3 | 2,3,6-Trichlorophenol |
| 8.140 | 0.003 | 134543 | 8.513 | -0.007 | 146106 | 25.0000 | 24.4528 | 2.2 | 2,4,5-Trichlorophenol |
| 8.687 | 0.006 | 166342 | 9.273 | -0.007 | 191858 | 25.0000 | 24.5746 | 1.7 | 2,3,4-Trichlorophenol |
| 8.914 | 0.002 | 392346 | 9.180 | -0.004 | 429030 | 25.0000 | 25.2550 | 1.0 | 2,3,5,6-Tetrachlorophenol |
| 10.306 | 0.004 | 286776 | 11.019 | -0.004 | 360825 | 25.0000 | 27.5833 | 9.8 | 2,3,4,5-Tetrachlorophenol |
| 6.820 | 0.003 | 119627 | 7.088 | -0.002 | 140384 | 250.0000 | 207.3163 | 18.7 | 2,4-Dichlorophenol |
| 9.902 | 0.003 | 367511 | 10.543 | -0.003 | 422914 | 25.0 | 25.3 | 1.3 | 2,4,6-Tribromophenol (surr) |

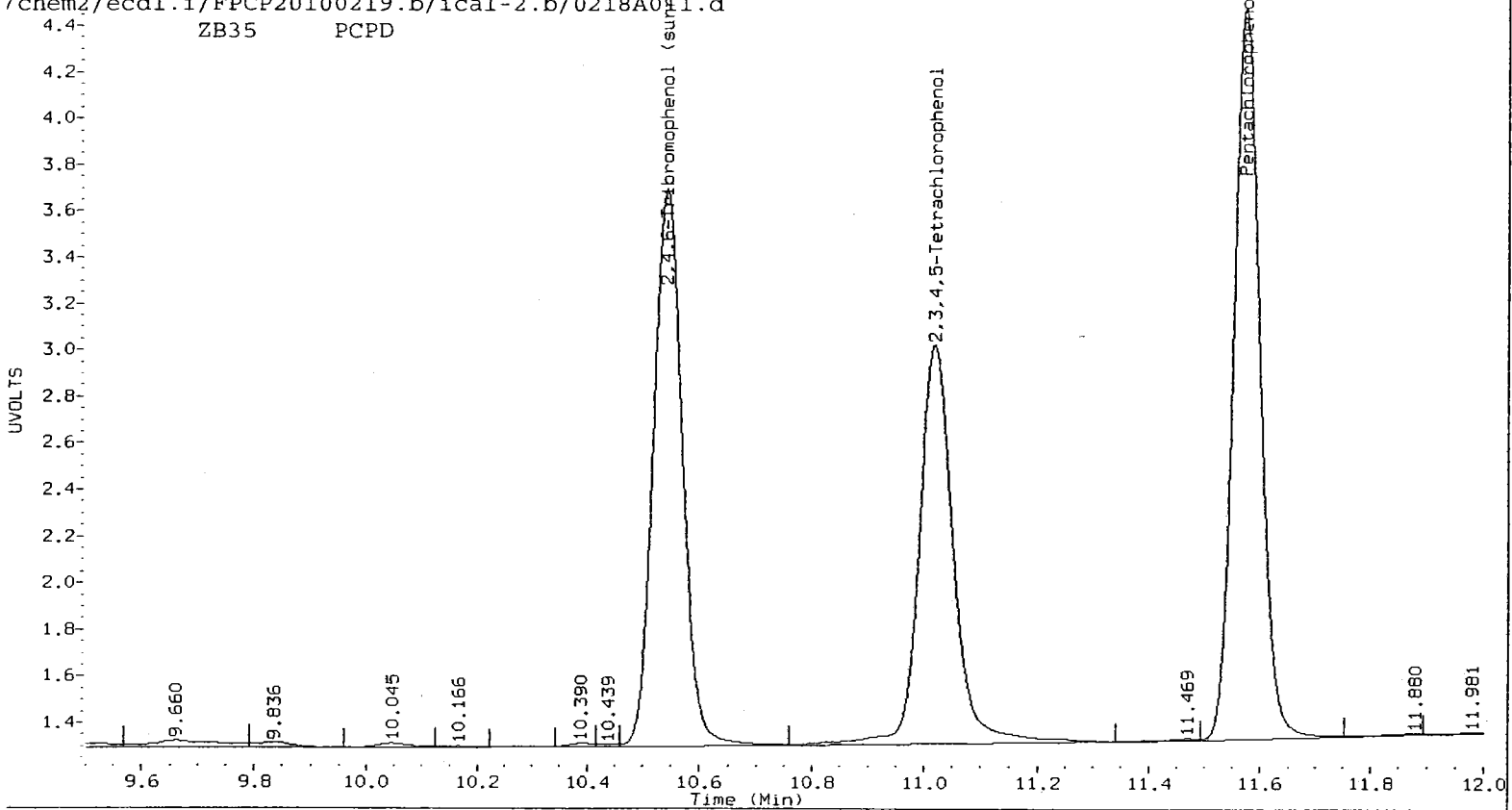
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|-------|-------|
| 2,4,6-TBP (surr) | 100.0 | 101.3 |

/chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A011.d



/chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A011.d



QN21 : 00268

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

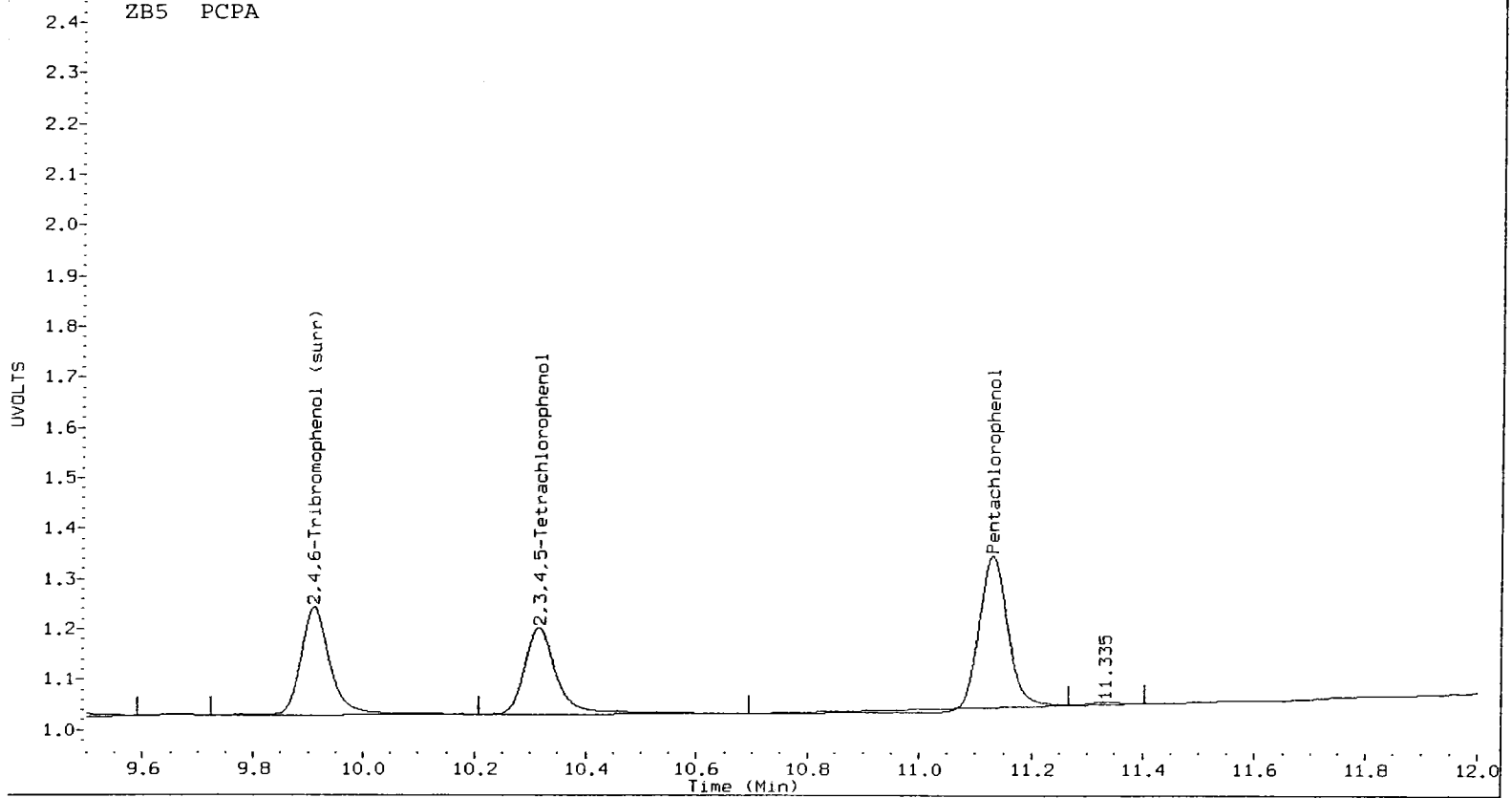
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 Data file 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A012.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:37
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|---------|---------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.131 | 0.008 | 48151 | 11.577 | 0.001 | 54730 | 2.5415 | 2.6626 | 4.7 | Pentachlorophenol |
| 7.193 | 0.003 | 31724 | 7.262 | 0.000 | 31199 | 2.7527 | 2.6369 | 4.3 | 2,4,6-Trichlorophenol |
| 7.546 | 0.006 | 29024 | 7.788 | 0.001 | 32334 | 2.6748 | 2.8423 | 6.1 | 2,3,6-Trichlorophenol |
| 8.157 | 0.019 | 13893 | 8.523 | 0.003 | 17182 | 2.5401 | 2.8843 | 12.7 | 2,4,5-Trichlorophenol |
| 8.700 | 0.019 | 21131 | 9.283 | 0.003 | 22492 | 2.7977 | 2.8810 | 2.9 | 2,3,4-Trichlorophenol |
| 8.923 | 0.011 | 42228 | 9.185 | 0.002 | 46168 | 2.5919 | 2.7177 | 4.7 | 2,3,5,6-Tetrachlorophenol |
| 10.316 | 0.014 | 35172 | 11.025 | 0.002 | 33617 | 2.7543 | 2.5699 | 6.9 | 2,3,4,5-Tetrachlorophenol |
| 6.823 | 0.006 | 13475 | 7.092 | 0.001 | 16607 | 28.1209 | 27.1340 | 3.6 | 2,4-Dichlorophenol |
| 9.911 | 0.012 | 40229 | 10.548 | 0.002 | 44308 | 2.6 | 2.7 | 1.5 | 2,4,6-Tribromophenol (surr) |

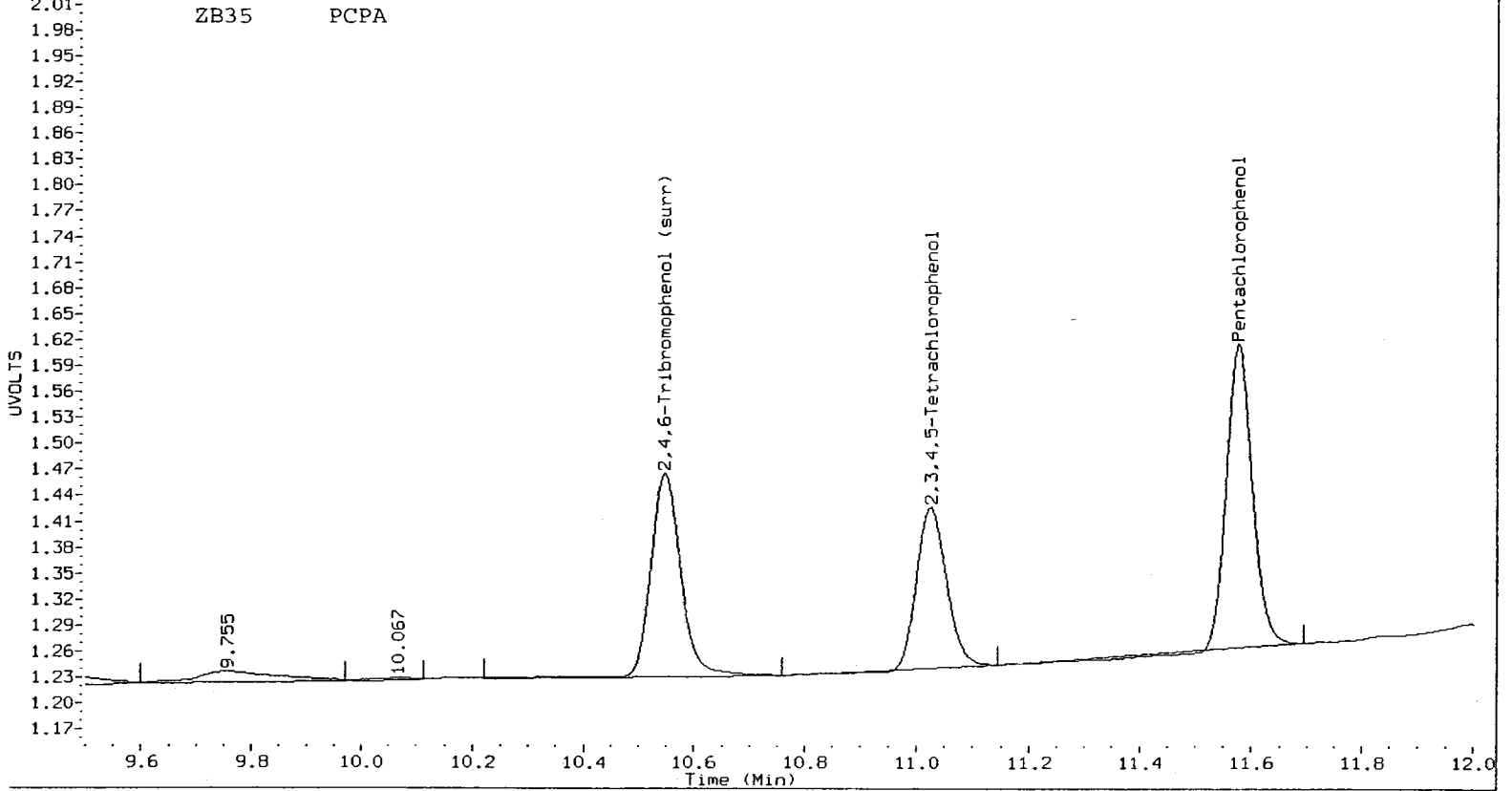
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 10.5 | 10.6 |

ZB5 PCPA



ZB35 PCPA



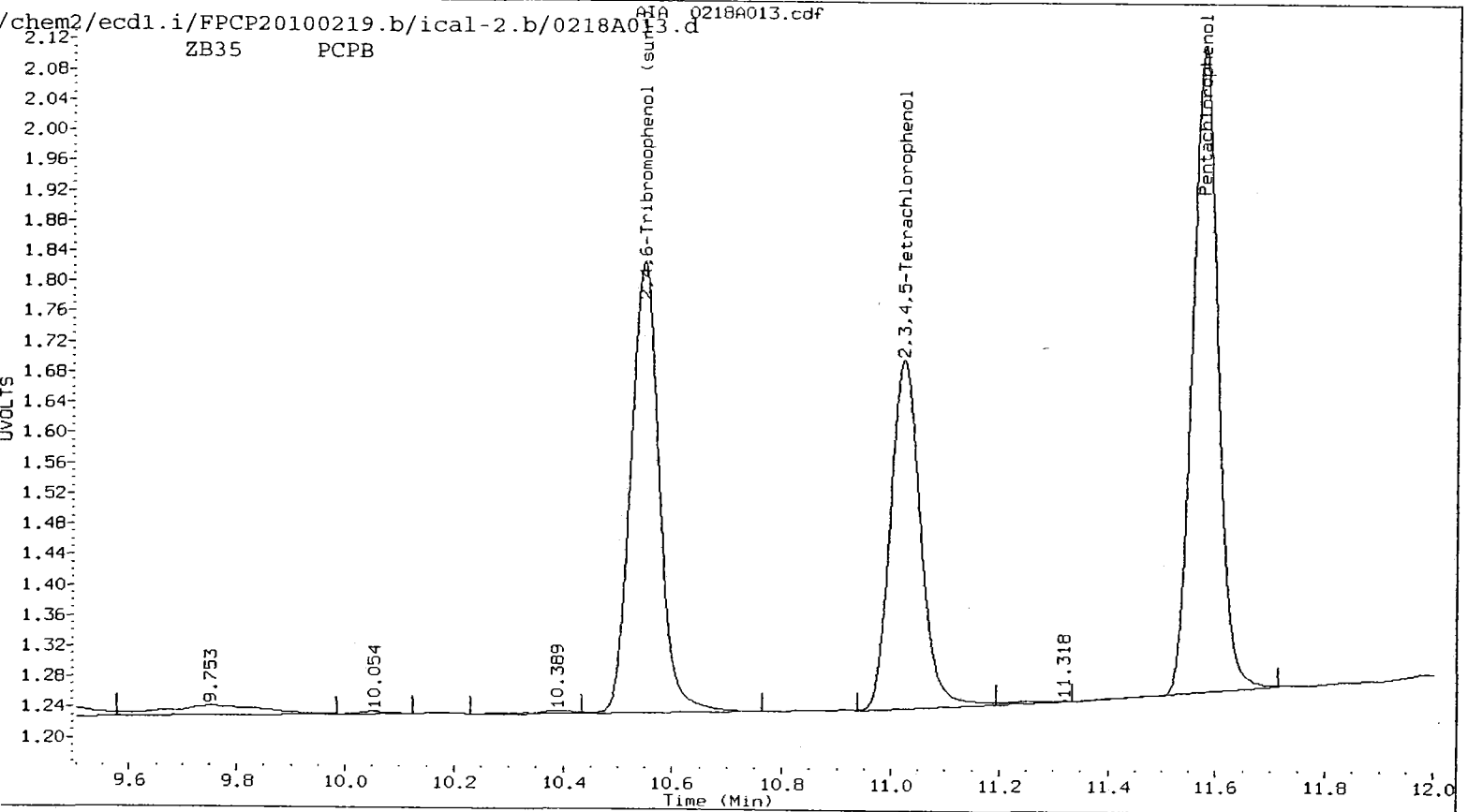
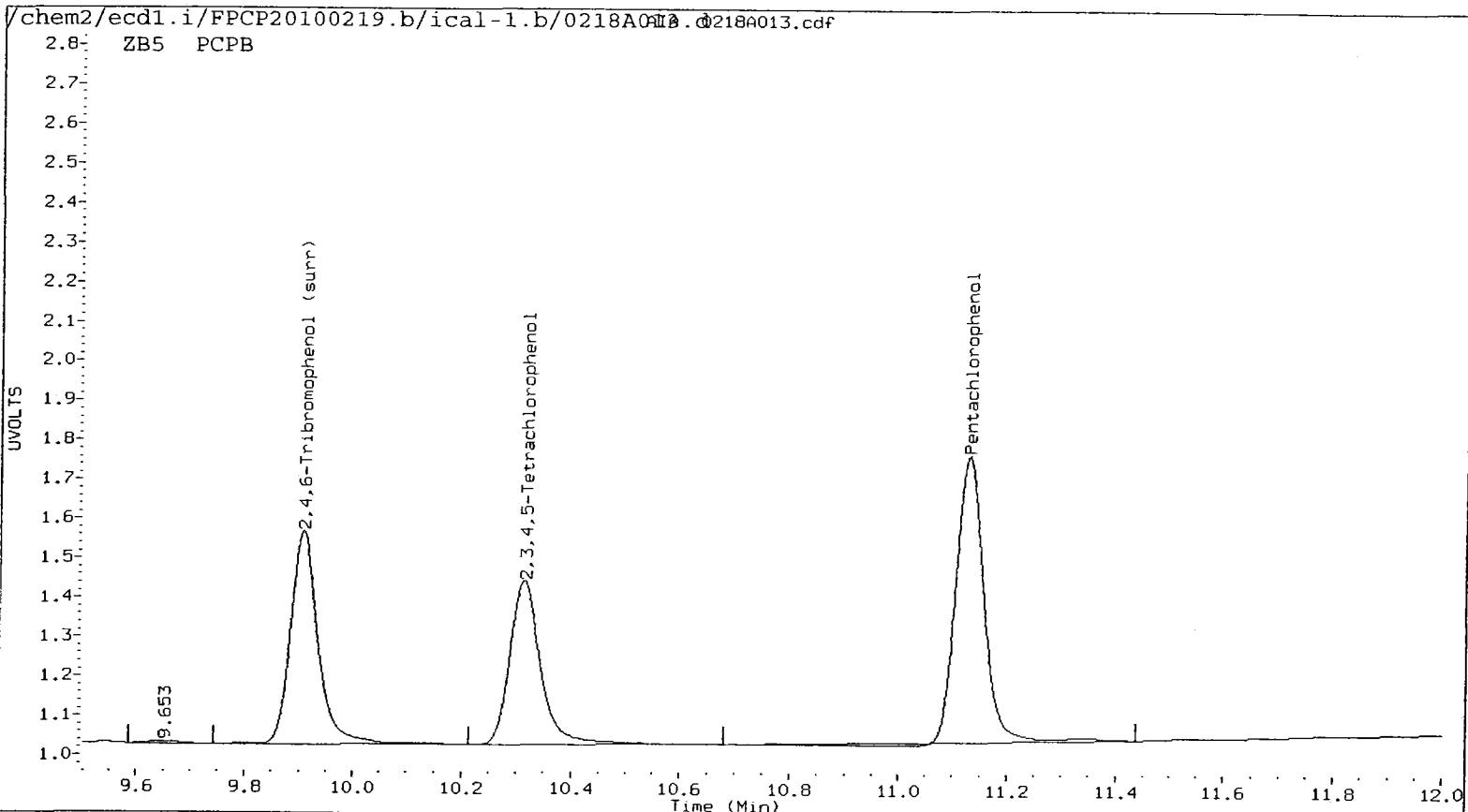
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A013.d ARI ID: PCPB
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A013.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:57
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|-------------------|-------------------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.130 | 0.007 | 126786 | 11.576 | 0.000 | 139982 | 6.5378 | 6.8102 | 4.1 | Pentachlorophenol |
| 7.193 | 0.003 | 71176 | 7.262 | 0.000 | 76250 | 6.2005 | 6.7035 | 7.8 | 2,4,6-Trichlorophenol |
| 7.547 | 0.007 | 68473 | 7.787 | 0.000 | 76734 | 6.2901 | 6.8029 | 7.8 | 2,3,6-Trichlorophenol |
| 8.153 | 0.016 | 33871 | 8.520 | 0.000 | 41146 | 6.2117 | 6.9730 | 11.5 | 2,4,5-Trichlorophenol |
| 8.697 | 0.016 | 53024 | 9.280 | 0.000 | 55164 | 6.7432 | 7.0658 | 4.7 | 2,3,4-Trichlorophenol |
| 8.922 | 0.010 | 103801 | 9.184 | 0.000 | 114152 | 6.3302 | 6.7196 | 6.0 | 2,3,5,6-Tetrachlorophenol |
| 10.315 | 0.013 | 81738 | 11.023 | 0.000 | 88429 | 6.3497 | 6.7600 | 6.3 | 2,3,4,5-Tetrachlorophenol |
| 6.823 | 0.006 | 35911 | 7.091 | 0.000 | 39550 | 73.9256 | 70.1023 | 5.3 | 2,4-Dichlorophenol |
| 9.909 | 0.010 | 96694 | 10.546 | 0.000 | 108248 | 6.3 | 6.5 | 3.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 25.1 | 25.9 |



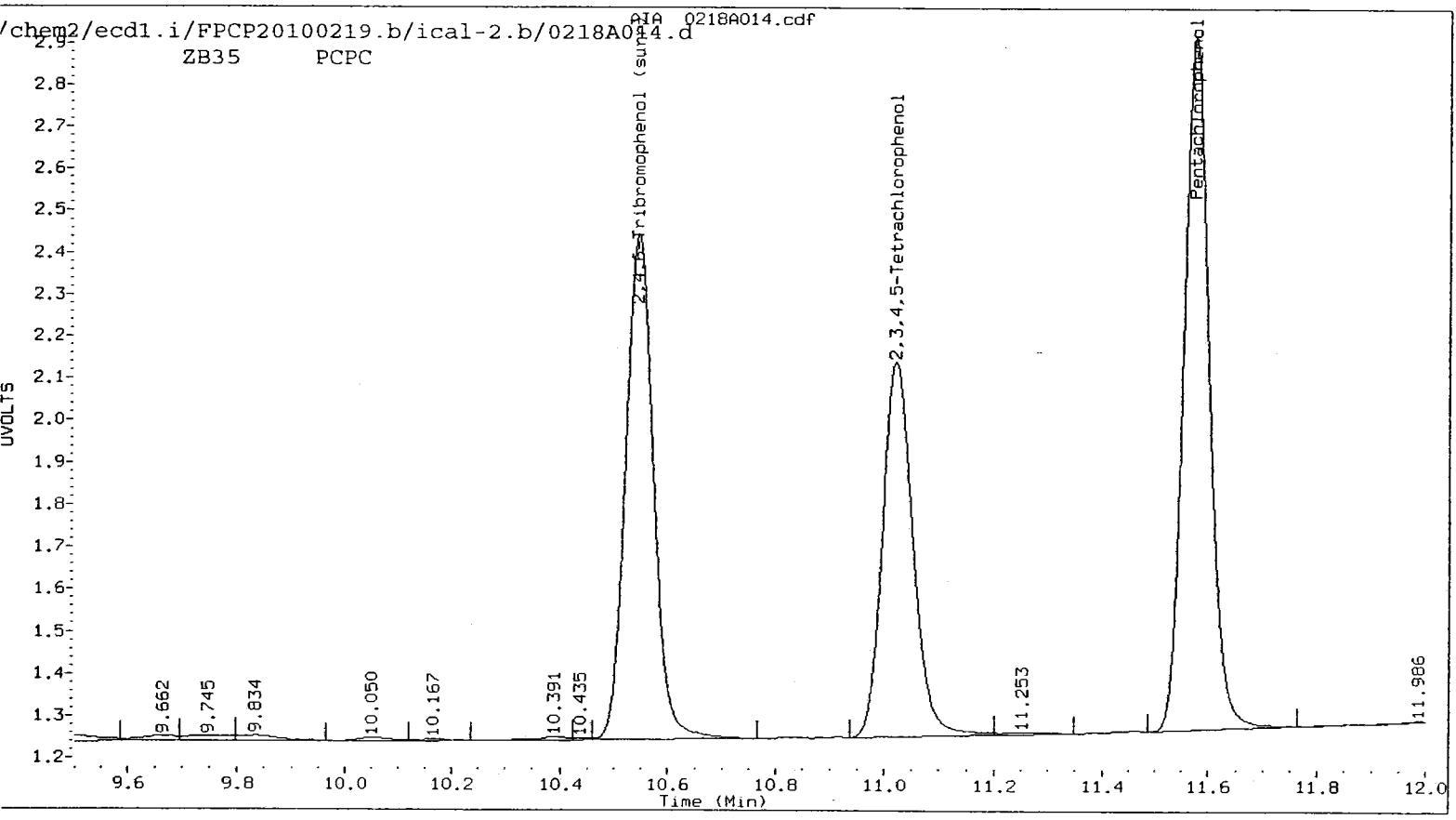
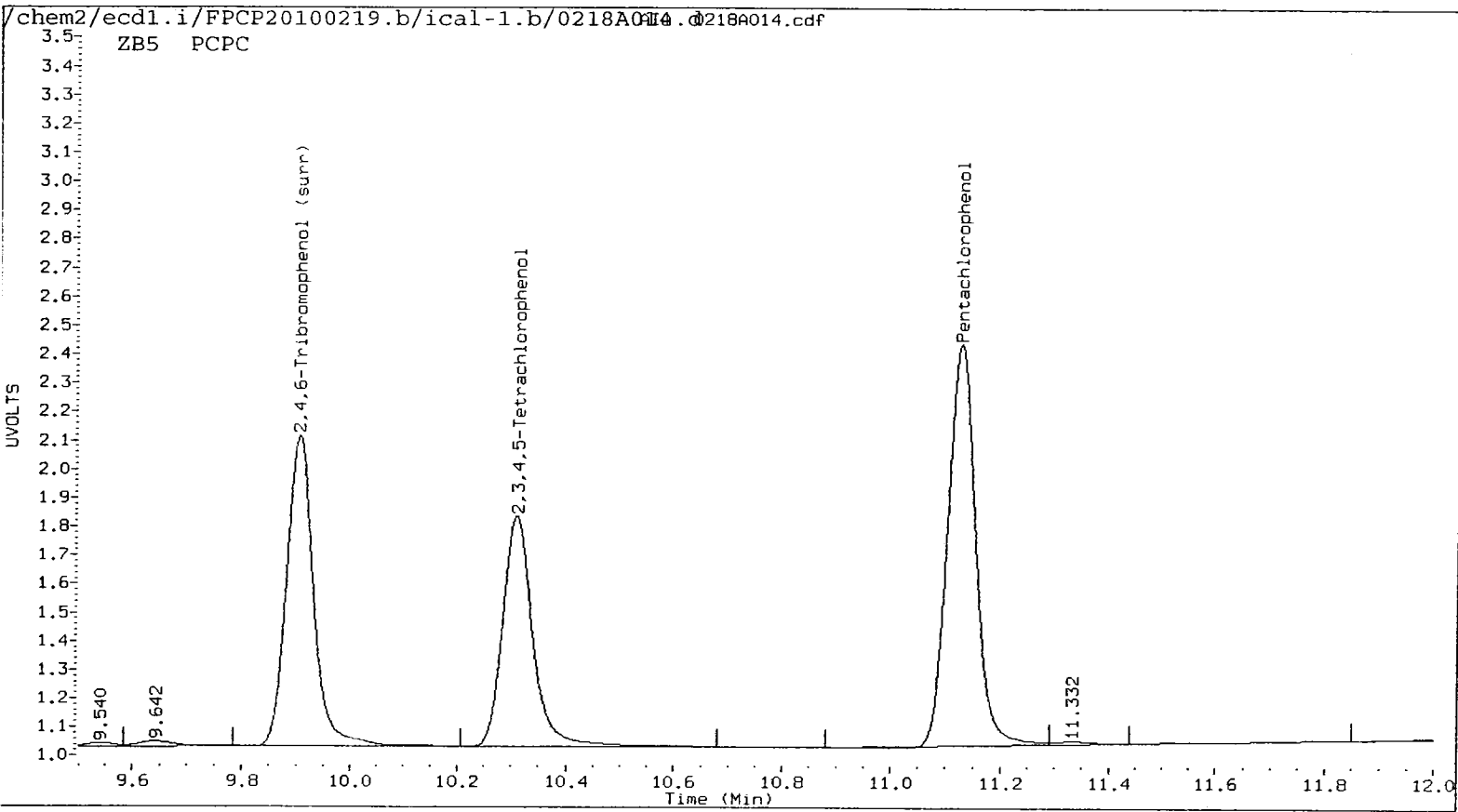
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A014.d ARI ID: PCPC
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:17
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|--------|----------|--------------------|--------------------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.126 | 0.003 | 246351 | 11.574 | -0.002 | 273284 | 12.6518 | 13.2954 | 5.0 | Pentachlorophenol |
| 7.190 | 0.000 | 117988 | 7.262 | 0.000 | 154642 | 10.7564 | 13.3368 | 21.4 | 2,4,6-Trichlorophenol |
| 7.544 | 0.004 | 131437 | 7.786 | -0.001 | 147154 | 12.1779 | 13.0207 | 6.7 | 2,3,6-Trichlorophenol |
| 8.143 | 0.006 | 67722 | 8.517 | -0.003 | 78715 | 12.4397 | 13.3353 | 6.9 | 2,4,5-Trichlorophenol |
| 8.690 | 0.009 | 96775 | 9.277 | -0.004 | 104097 | 12.3548 | 13.3336 | 7.6 | 2,3,4-Trichlorophenol |
| 8.916 | 0.004 | 203238 | 9.182 | -0.002 | 222741 | 12.4205 | 13.1117 | 5.4 | 2,3,5,6-Tetrachlorophenol |
| 10.309 | 0.006 | 154324 | 11.021 | -0.002 | 171820 | 12.1124 | 13.1348 | 8.1 | 2,3,4,5-Tetrachlorophenol |
| 6.820 | 0.003 | 67050 | 7.090 | -0.001 | 79892 | 135.1393 | 135.7267 | 0.4 | 2,4-Dichlorophenol |
| 9.904 | 0.005 | 189722 | 10.544 | -0.002 | 215625 | 12.4 | 12.9 | 4.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 49.4 | 51.6 |



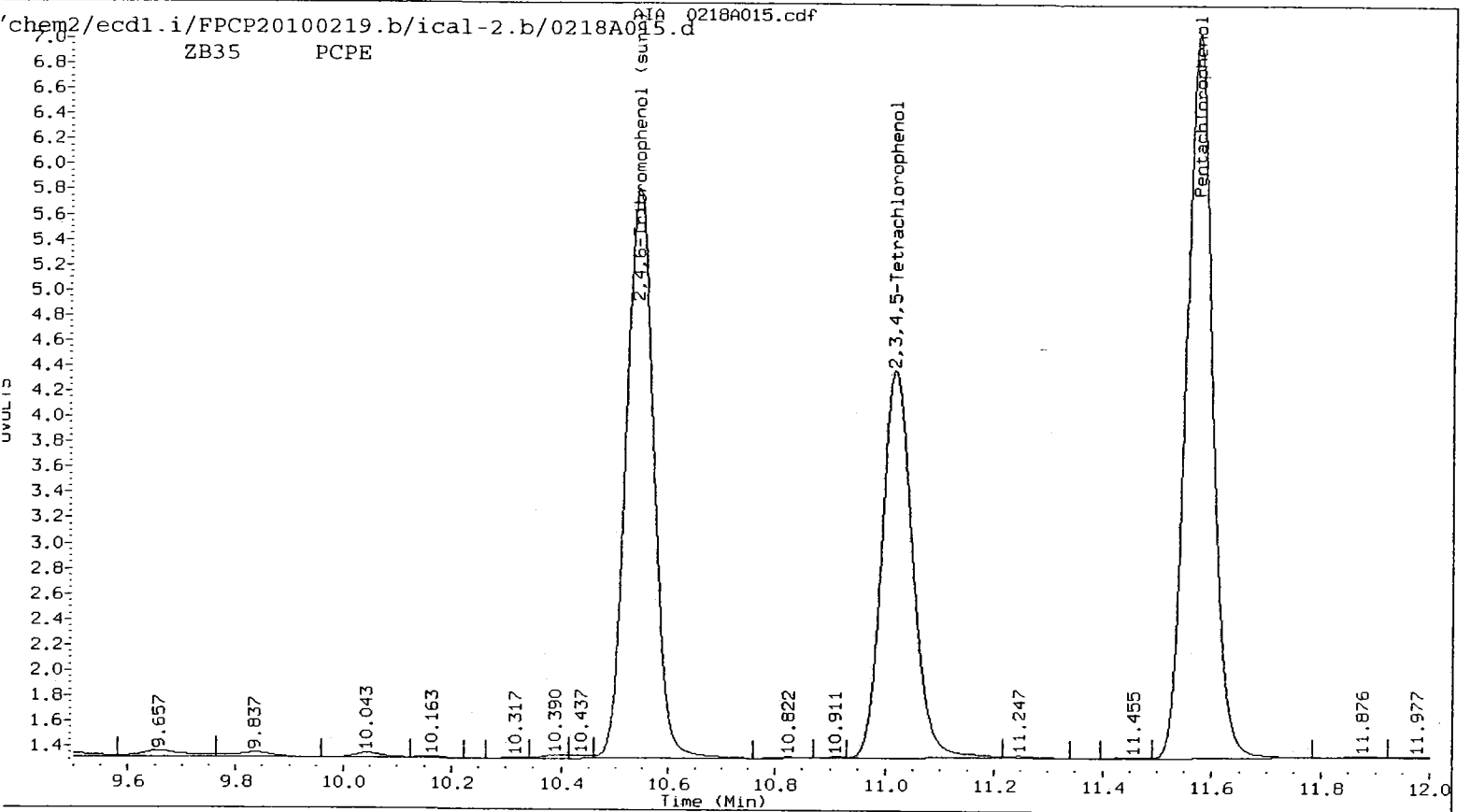
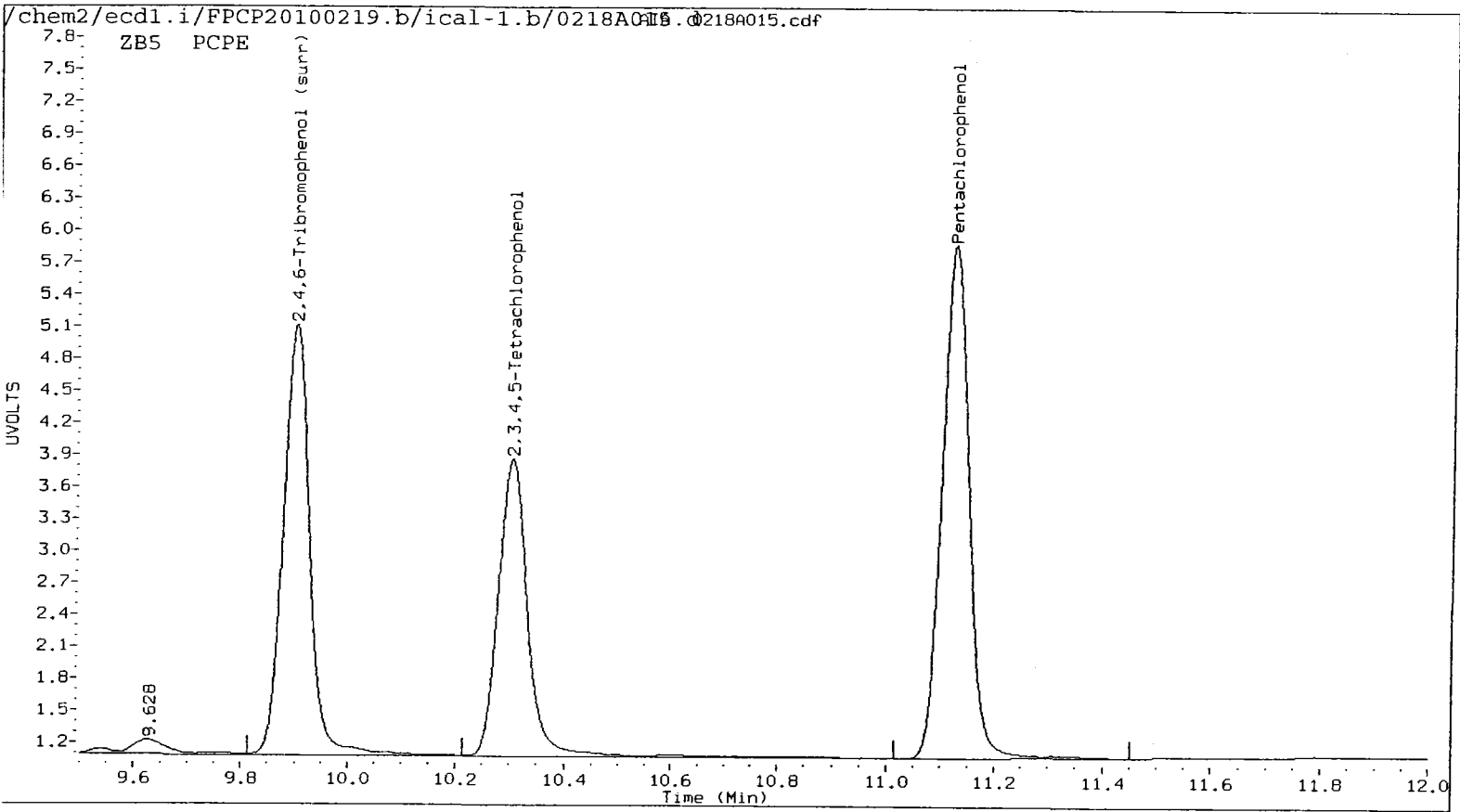
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A015.d ARI ID: PCPE
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/ical-2.b/0218A015.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:37
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|--------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.124 | 0.001 | 841607 | 11.573 | -0.003 | 954743 | 44.4268 | 46.4485 | 4.4 | Pentachlorophenol |
| 7.190 | 0.000 | 435261 | 7.260 | -0.002 | 518978 | 41.3891 | 44.9202 | 8.2 | 2,4,6-Trichlorophenol |
| 7.544 | 0.004 | 441107 | 7.785 | -0.002 | 509370 | 42.4186 | 45.1632 | 6.3 | 2,3,6-Trichlorophenol |
| 8.140 | 0.003 | 225240 | 8.511 | -0.009 | 260911 | 42.8525 | 44.2164 | 3.1 | 2,4,5-Trichlorophenol |
| 8.684 | 0.003 | 292192 | 9.271 | -0.009 | 343721 | 39.2987 | 44.0264 | 11.3 | 2,3,4-Trichlorophenol |
| 8.913 | 0.001 | 696892 | 9.179 | -0.005 | 790093 | 43.8904 | 46.5091 | 5.8 | 2,3,5,6-Tetrachlorophenol |
| 10.304 | 0.002 | 523702 | 11.017 | -0.006 | 597151 | 42.6204 | 45.6492 | 6.9 | 2,3,4,5-Tetrachlorophenol |
| 6.821 | 0.004 | 224635 | 7.088 | -0.003 | 239032 | 486.4561 | 408.8435 | 17.3 | 2,4-Dichlorophenol |
| 9.901 | 0.002 | 684881 | 10.541 | -0.005 | 802969 | 45.6 | 48.1 | 5.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|-------|-------|
| 2,4,6-TBP (surr) | 182.3 | 192.3 |



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

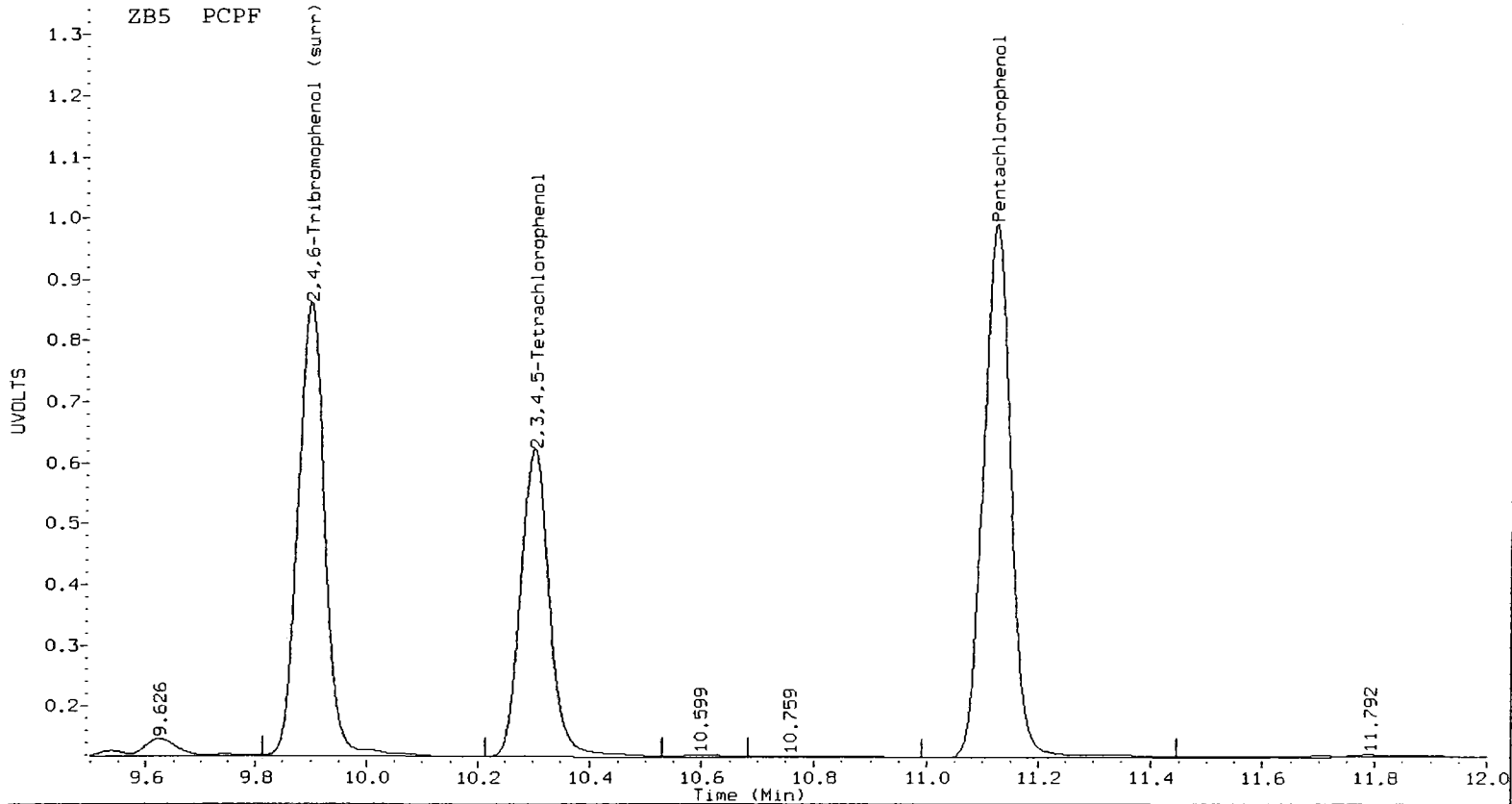
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:56
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|--------|----------|----------|----------|------|---------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.123 | 0.000 | 1514288 | 11.572 | -0.004 | 1735502 | 82.7019 | 84.4327 | 2.1 | Pentachlorophenol |
| 7.190 | 0.000 | 804812 | 7.261 | -0.001 | 930429 | 79.6454 | 80.6929 | 1.3 | 2,4,6-Trichlorophenol |
| 7.540 | 0.000 | 812798 | 7.785 | -0.002 | 938616 | 81.1142 | 83.2139 | 2.6 | 2,3,6-Trichlorophenol |
| 8.137 | 0.000 | 408754 | 8.510 | -0.009 | 458891 | 80.7591 | 77.7679 | 3.8 | 2,4,5-Trichlorophenol |
| 8.681 | 0.000 | 526042 | 9.271 | -0.010 | 614354 | 74.3764 | 78.6910 | 5.6 | 2,3,4-Trichlorophenol |
| 8.912 | 0.000 | 1270676 | 9.179 | -0.005 | 1441375 | 82.7830 | 84.8470 | 2.5 | 2,3,5,6-Tetrachloropheno |
| 10.302 | 0.000 | 902416 | 11.016 | -0.007 | 1077091 | 76.8427 | 82.3380 | 6.9 | 2,3,4,5-Tetrachlorophenol |
| 6.817 | 0.000 | 376259 | 7.087 | -0.003 | 409238 | 938.2954 | 703.1714 | 28.6 | 2,4-Dichlorophenol |
| 9.899 | 0.000 | 1246694 | 10.541 | -0.005 | 1496833 | 85.4 | 89.6 | 4.8 | 2,4,6-Tribromophenol (sur |

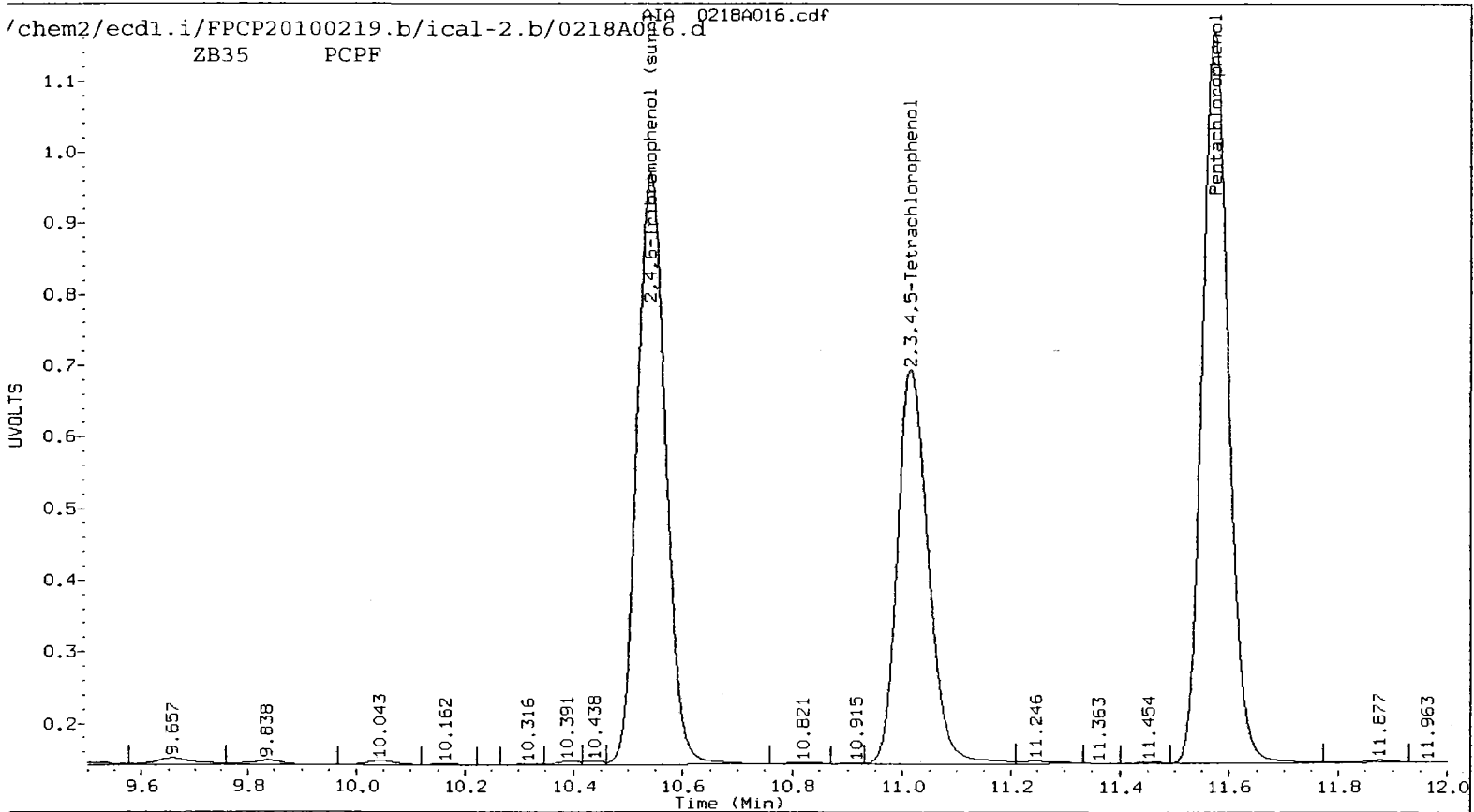
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|-------|-------|
| 2,4,6-TBP (surr) | 341.5 | 358.4 |

ZB5 PCPF



ZB35 PCPF



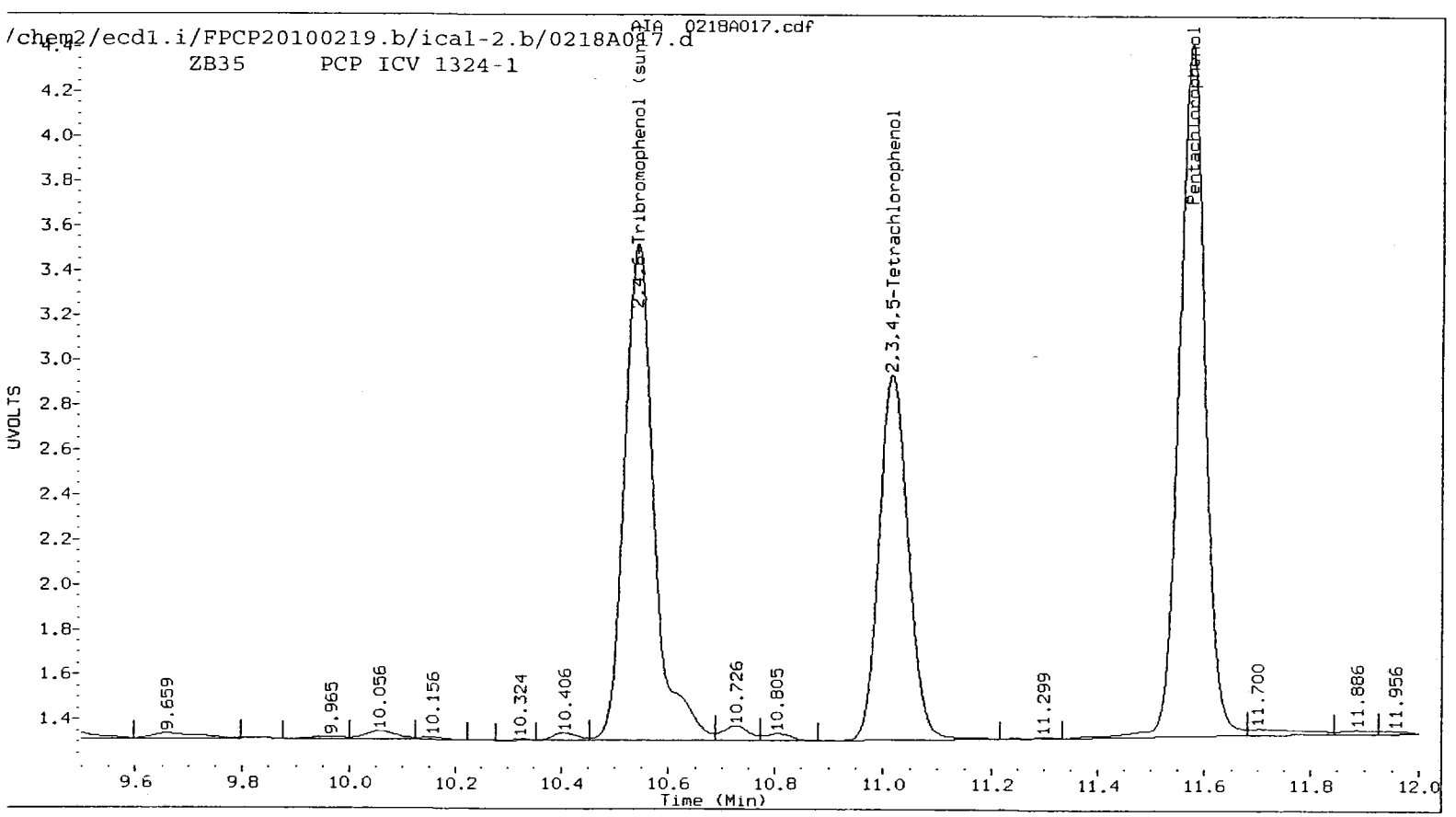
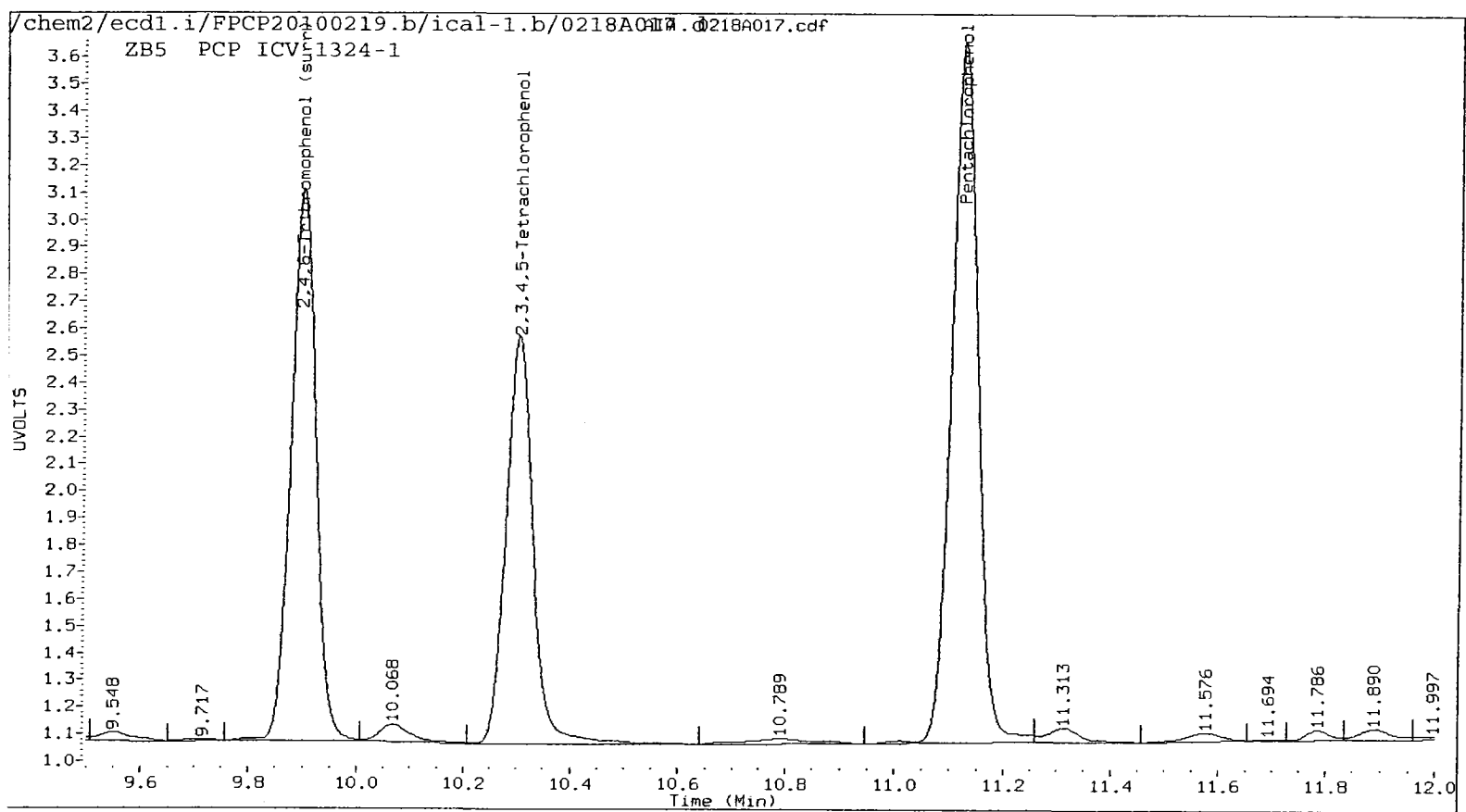
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/ical-1.b/0218A017.d ARI ID: PCP ICV 1324-1
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 22:16
 Compound Sublist: all Report Date: 02/19/2010 10:00
 Instrument: ecd1.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.123 | 0.000 | 442522 | 11.573 | -0.003 | 520085 | 24.1681 | 25.3023 | 4.6 | Pentachlorophenol |
| 7.190 | 0.000 | 262734 | 7.262 | 0.000 | 296428 | 26.0005 | 25.7082 | 1.1 | 2,4,6-Trichlorophenol |
| 7.540 | 0.000 | 232672 | 7.786 | -0.001 | 268515 | 23.2198 | 23.8055 | 2.5 | 2,3,6-Trichlorophenol |
| 8.133 | -0.004 | 143744 | 8.511 | -0.008 | 149667 | 28.4001 | 25.3640 | 11.3 | 2,4,5-Trichlorophenol |
| 8.679 | -0.002 | 167164 | 9.271 | -0.010 | 173518 | 23.6351 | 22.2254 | 6.1 | 2,3,4-Trichlorophenol |
| 8.910 | -0.002 | 349991 | 9.180 | -0.004 | 419174 | 22.8015 | 24.6749 | 7.9 | 2,3,5,6-Tetrachlorophenol |
| 10.302 | 0.000 | 265864 | 11.017 | -0.006 | 298698 | 22.6389 | 22.8340 | 0.9 | 2,3,4,5-Tetrachlorophenol |
| 6.820 | 0.003 | 121854 | 7.090 | -0.001 | 134770 | 303.8732 | 231.5688 | 27.0 | 2,4-Dichlorophenol |
| 9.898 | -0.001 | 323910 | 10.542 | -0.005 | 418827 | 22.2 | 25.1 | 12.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 96.7 | 101.2 |
| 2,4,6-Trichlorophenol | 104.0 | 102.8 |
| 2,3,6-Trichlorophenol | 92.9 | 95.2 |
| 2,4,5-Trichlorophenol | 113.6 | 101.5 |
| 2,3,4-Trichlorophenol | 94.5 | 88.9 |
| 2,3,5,6-Tetrachlorophenol | 91.2 | 98.7 |
| 2,3,4,5-Tetrachlorophenol | 90.6 | 91.3 |
| 2,4-Dichlorophenol | 121.5 | 92.6 |
| 2,4,6-TBP (surr) | 44.4 | 50.1 |



7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1215

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.14 | 11.05 | 11.19 | 23.9 | 25.0 | -4.4 |
| 2,4,6-Trichlorophenol | 7.20 | 7.12 | 7.26 | 25.9 | 25.0 | 3.6 |
| 2,3,6-Trichlorophenol | 7.55 | 7.47 | 7.61 | 23.8 | 25.0 | -4.8 |
| 2,4,5-Trichlorophenol | 8.16 | 8.07 | 8.21 | 24.8 | 25.0 | -0.8 |
| 2,3,4-Trichlorophenol | 8.70 | 8.61 | 8.75 | 34.3 | 25.0 | 37.2 |
| 2,3,5,6-Tetrachlorophenol | 8.92 | 8.84 | 8.98 | 25.7 | 25.0 | 2.8 |
| 2,3,4,5-Tetrachlorophenol | 10.32 | 10.23 | 10.37 | 23.9 | 25.0 | -4.4 |
| 2,4-Dichlorophenol | 6.83 | 6.75 | 6.89 | 255 | 250 | 2.0 |
| 2,4,6-Tribromophenol (surr) | 9.91 | 9.83 | 9.97 | 22.9 | 25.0 | -8.4 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 7.6

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1215

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|-------|
| ===== | ===== | FROM | TO | ===== | ===== | ===== |
| Pentachlorophenol | 11.58 | 11.51 | 11.65 | 23.2 | 25.0 | -7.2 |
| 2,4,6-Trichlorophenol | 7.27 | 7.19 | 7.33 | 23.9 | 25.0 | -4.4 |
| 2,3,6-Trichlorophenol | 7.79 | 7.72 | 7.86 | 23.7 | 25.0 | -5.2 |
| 2,4,5-Trichlorophenol | 8.52 | 8.45 | 8.59 | 23.8 | 25.0 | -4.8 |
| 2,3,4-Trichlorophenol | 9.29 | 9.21 | 9.35 | 23.7 | 25.0 | -5.2 |
| 2,3,5,6-Tetrachlorophenol | 9.19 | 9.11 | 9.25 | 22.7 | 25.0 | -9.2 |
| 2,3,4,5-Tetrachlorophenol | 11.03 | 10.95 | 11.09 | 23.0 | 25.0 | -8.0 |
| 2,4-Dichlorophenol | 7.10 | 7.02 | 7.16 | 243 | 250 | -2.8 |
| 2,4,6-Tribromophenol (surr) | 10.55 | 10.48 | 10.62 | 22.9 | 25.0 | -8.4 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 6.1

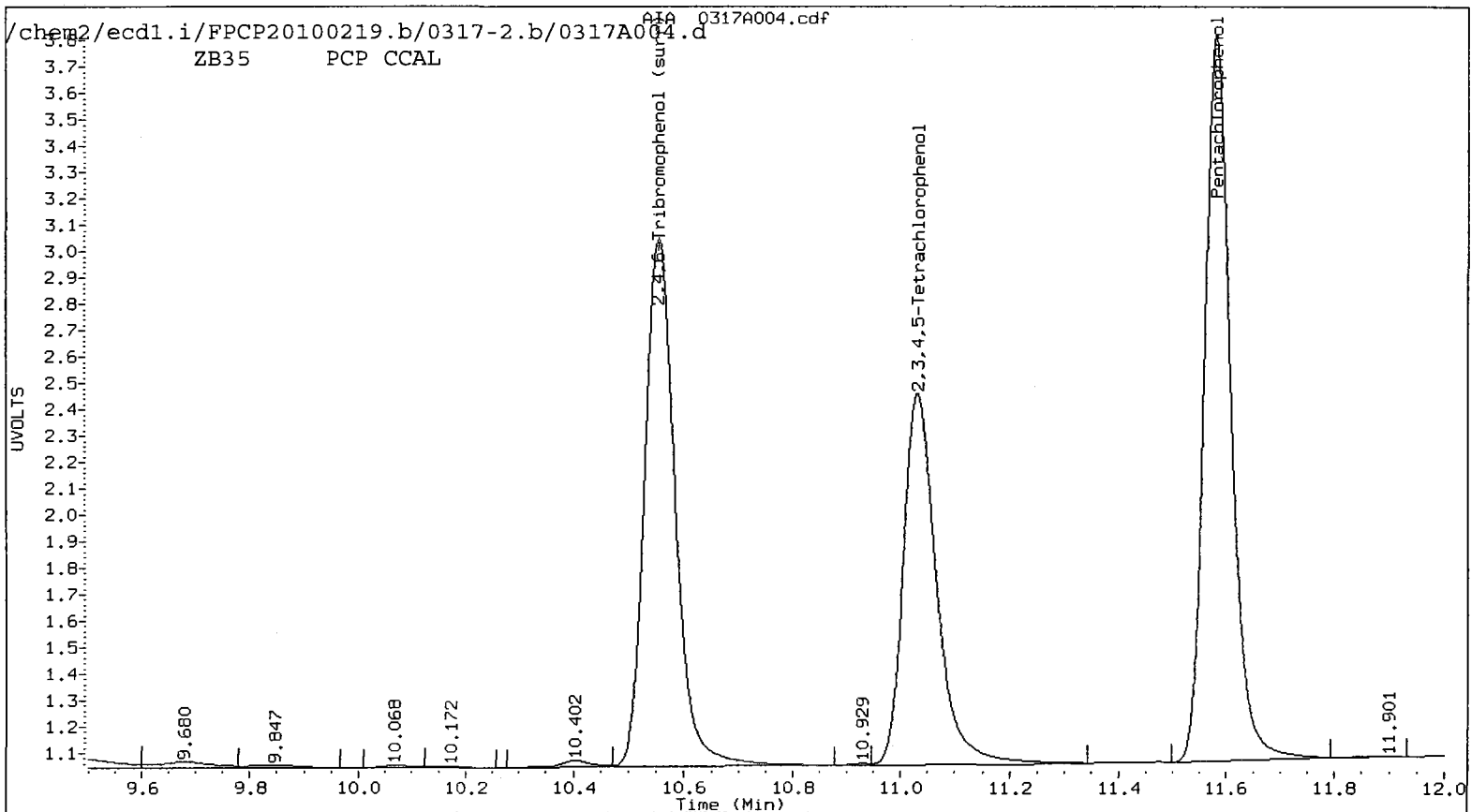
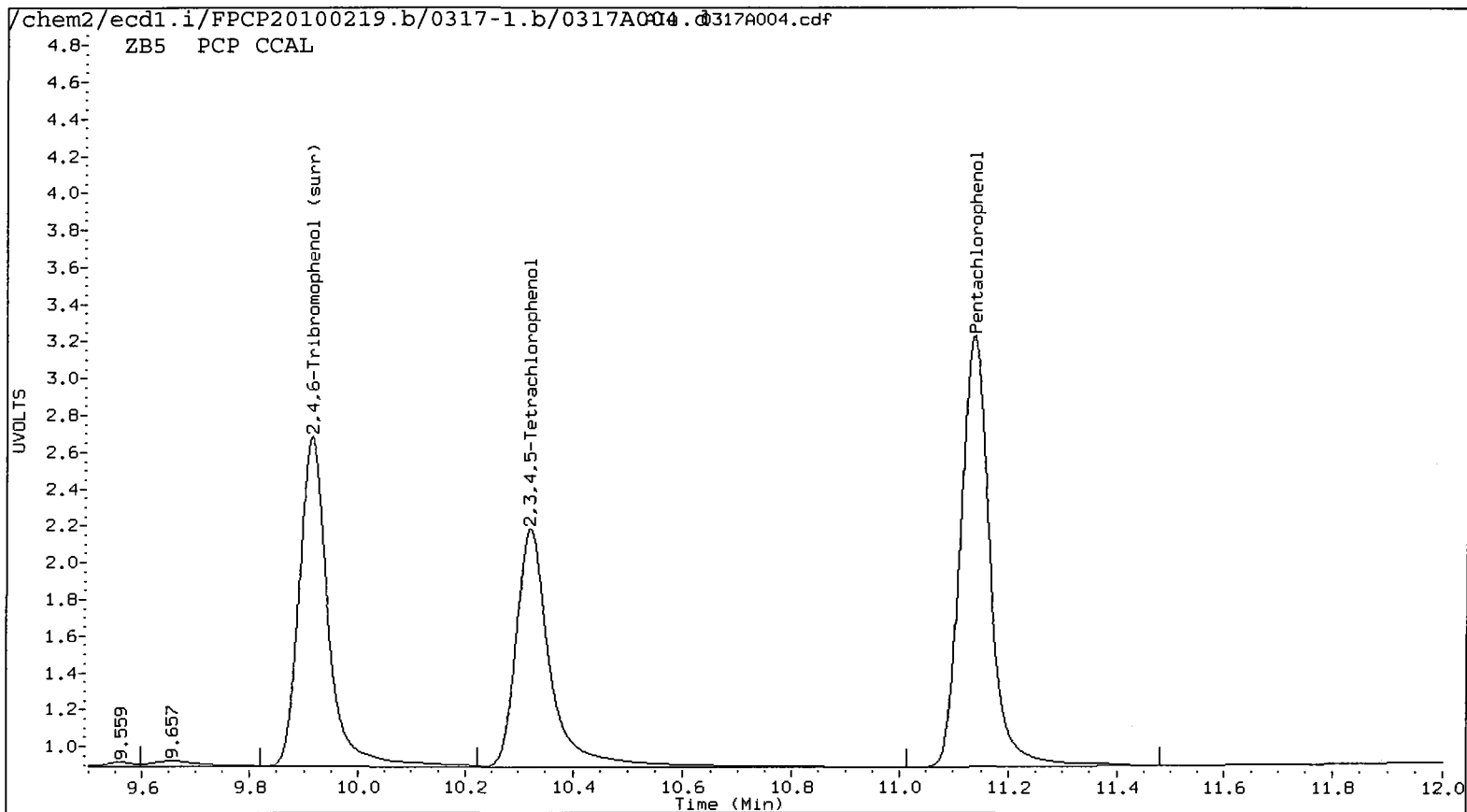
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A004.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A004.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 12:15
 Compound Sublist: all Report Date: 03/17/2010 17:07
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.135 | 0.012 | 436886 | 11.582 | 0.006 | 476069 | 23.8603 | 23.1609 | 3.0 | Pentachlorophenol |
| 7.199 | 0.009 | 261581 | 7.267 | 0.005 | 272051 | 25.8865 | 23.9171 | 7.9 | 2,4,6-Trichlorophenol |
| 7.551 | 0.011 | 238524 | 7.793 | 0.006 | 267465 | 23.8039 | 23.7125 | 0.4 | 2,3,6-Trichlorophenol |
| 8.156 | 0.019 | 125407 | 8.525 | 0.005 | 140373 | 24.7772 | 23.7890 | 4.1 | 2,4,5-Trichlorophenol |
| 8.702 | 0.021 | 242403 | 9.286 | 0.005 | 185404 | 34.2732 | 23.7480 | 36.3 | 2,3,4-Trichlorophenol |
| 8.924 | 0.012 | 395035 | 9.190 | 0.006 | 386356 | 25.7361 | 22.7430 | 12.3 | 2,3,5,6-Tetrachlorophenol |
| 10.322 | 0.019 | 281075 | 11.032 | 0.009 | 300306 | 23.9342 | 22.9569 | 4.2 | 2,3,4,5-Tetrachlorophenol |
| 6.828 | 0.011 | 125727 | 7.096 | 0.006 | 136963 | 255.3687 | 242.7671 | 5.1 | 2,4-Dichlorophenol |
| 9.914 | 0.015 | 335008 | 10.554 | 0.008 | 383202 | 22.9 | 22.9 | 0.0 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 95.4 | 92.6 |
| 2,4,6-Trichlorophenol | 103.5 | 95.7 |
| 2,3,6-Trichlorophenol | 95.2 | 94.8 |
| 2,4,5-Trichlorophenol | 99.1 | 95.2 |
| 2,3,4-Trichlorophenol | 137.1 | 95.0 |
| 2,3,5,6-Tetrachlorophenol | 102.9 | 91.0 |
| 2,3,4,5-Tetrachlorophenol | 95.7 | 91.8 |
| 2,4-Dichlorophenol | 102.1 | 97.1 |
| 2,4,6-TBP (surr) | 91.8 | 91.8 |



7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1434

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|-------|
| ===== | ===== | FROM | TO | ===== | ===== | ===== |
| Pentachlorophenol | 11.13 | 11.05 | 11.19 | 24.5 | 25.0 | -2.0 |
| 2,4,6-Trichlorophenol | 7.20 | 7.12 | 7.26 | 26.6 | 25.0 | 6.4 |
| 2,3,6-Trichlorophenol | 7.55 | 7.47 | 7.61 | 24.4 | 25.0 | -2.4 |
| 2,4,5-Trichlorophenol | 8.15 | 8.07 | 8.21 | 28.6 | 25.0 | 14.4 |
| 2,3,4-Trichlorophenol | 8.70 | 8.61 | 8.75 | 27.3 | 25.0 | 9.2 |
| 2,3,5,6-Tetrachlorophenol | 8.92 | 8.84 | 8.98 | 25.8 | 25.0 | 3.2 |
| 2,3,4,5-Tetrachlorophenol | 10.32 | 10.23 | 10.37 | 24.0 | 25.0 | -4.0 |
| 2,4-Dichlorophenol | 6.83 | 6.75 | 6.89 | 272 | 250 | 8.8 |
| 2,4,6-Tribromophenol (surr) | 9.91 | 9.83 | 9.97 | 23.9 | 25.0 | -4.4 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 6.1

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1434

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|-------|
| ===== | ===== | FROM | TO | ===== | ===== | ===== |
| Pentachlorophenol | 11.58 | 11.51 | 11.65 | 24.5 | 25.0 | -2.0 |
| 2,4,6-Trichlorophenol | 7.26 | 7.19 | 7.33 | 24.8 | 25.0 | -0.8 |
| 2,3,6-Trichlorophenol | 7.79 | 7.72 | 7.86 | 24.7 | 25.0 | -1.2 |
| 2,4,5-Trichlorophenol | 8.52 | 8.45 | 8.59 | 24.9 | 25.0 | -0.4 |
| 2,3,4-Trichlorophenol | 9.28 | 9.21 | 9.35 | 24.7 | 25.0 | -1.2 |
| 2,3,5,6-Tetrachlorophenol | 9.18 | 9.11 | 9.25 | 23.8 | 25.0 | -4.8 |
| 2,3,4,5-Tetrachlorophenol | 11.03 | 10.95 | 11.09 | 24.3 | 25.0 | -2.8 |
| 2,4-Dichlorophenol | 7.09 | 7.02 | 7.16 | 252 | 250 | 0.8 |
| 2,4,6-Tribromophenol (surr) | 10.55 | 10.48 | 10.62 | 24.1 | 25.0 | -3.6 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 2.0

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

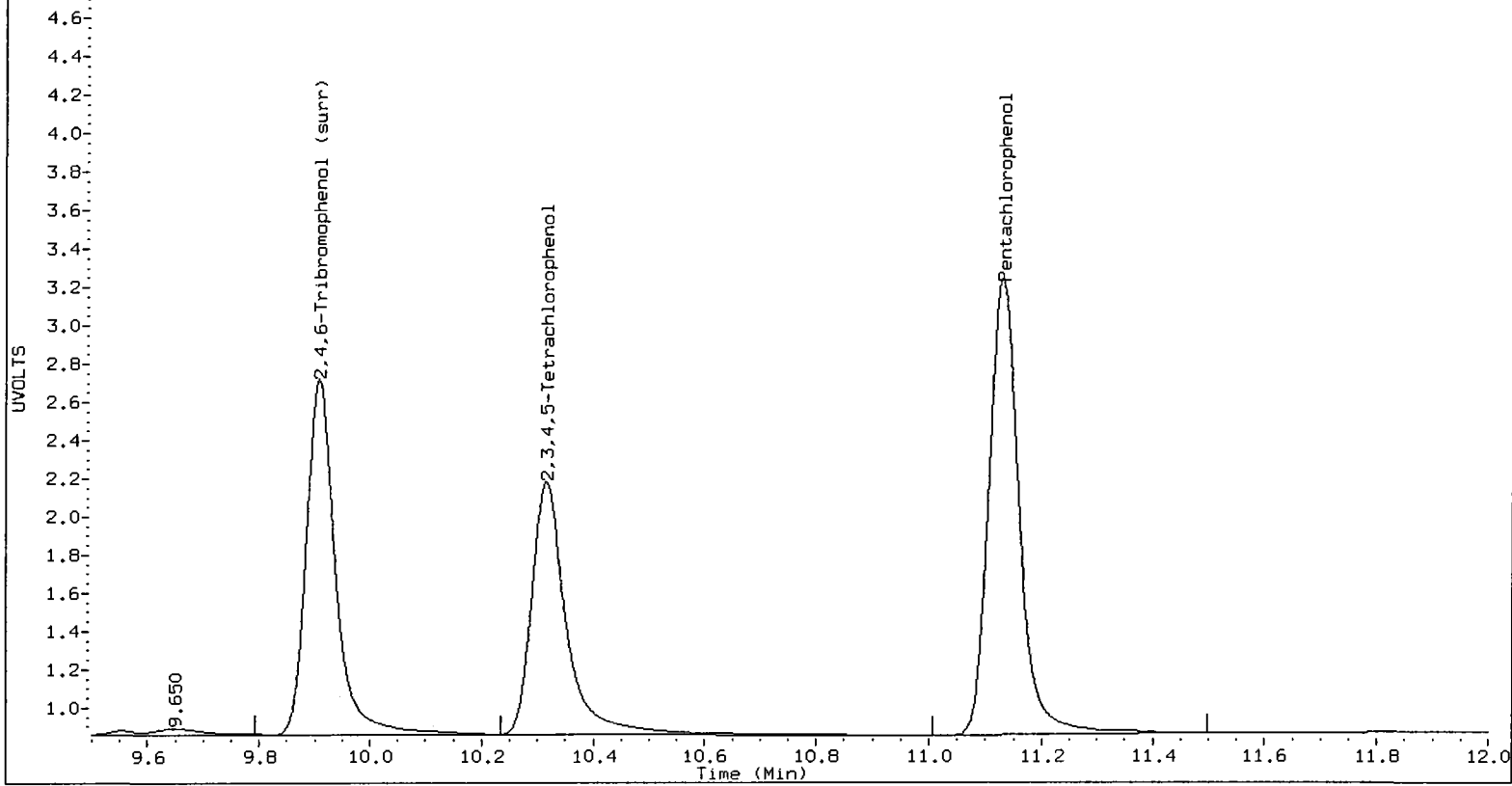
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 14:34
 Compound Sublist: all Report Date: 03/17/2010 17:14
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.132 | 0.009 | 449234 | 11.577 | 0.001 | 503601 | 24.5347 | 24.5003 | 0.1 | Pentachlorophenol |
| 7.196 | 0.006 | 268921 | 7.263 | 0.000 | 282128 | 26.6129 | 24.8030 | 7.0 | 2,4,6-Trichlorophenol |
| 7.548 | 0.008 | 244727 | 7.788 | 0.001 | 278885 | 24.4229 | 24.7248 | 1.2 | 2,3,6-Trichlorophenol |
| 8.154 | 0.017 | 144869 | 8.520 | 0.000 | 147096 | 28.6225 | 24.9284 | 13.8 | 2,4,5-Trichlorophenol |
| 8.700 | 0.019 | 192968 | 9.280 | 0.000 | 192922 | 27.2836 | 24.7108 | 9.9 | 2,3,4-Trichlorophenol |
| 8.922 | 0.010 | 395716 | 9.184 | 0.000 | 403904 | 25.7805 | 23.7760 | 8.1 | 2,3,5,6-Tetrachlorophenol |
| 10.318 | 0.015 | 282140 | 11.026 | 0.003 | 317603 | 24.0249 | 24.2791 | 1.1 | 2,3,4,5-Tetrachlorophenol |
| 6.825 | 0.008 | 124031 | 7.091 | 0.001 | 142282 | 272.2359 | 252.1957 | 7.6 | 2,4-Dichlorophenol |
| 9.911 | 0.012 | 349517 | 10.548 | 0.002 | 402785 | 23.9 | 24.1 | 0.7 | 2,4,6-Tribromophenol (surr) |

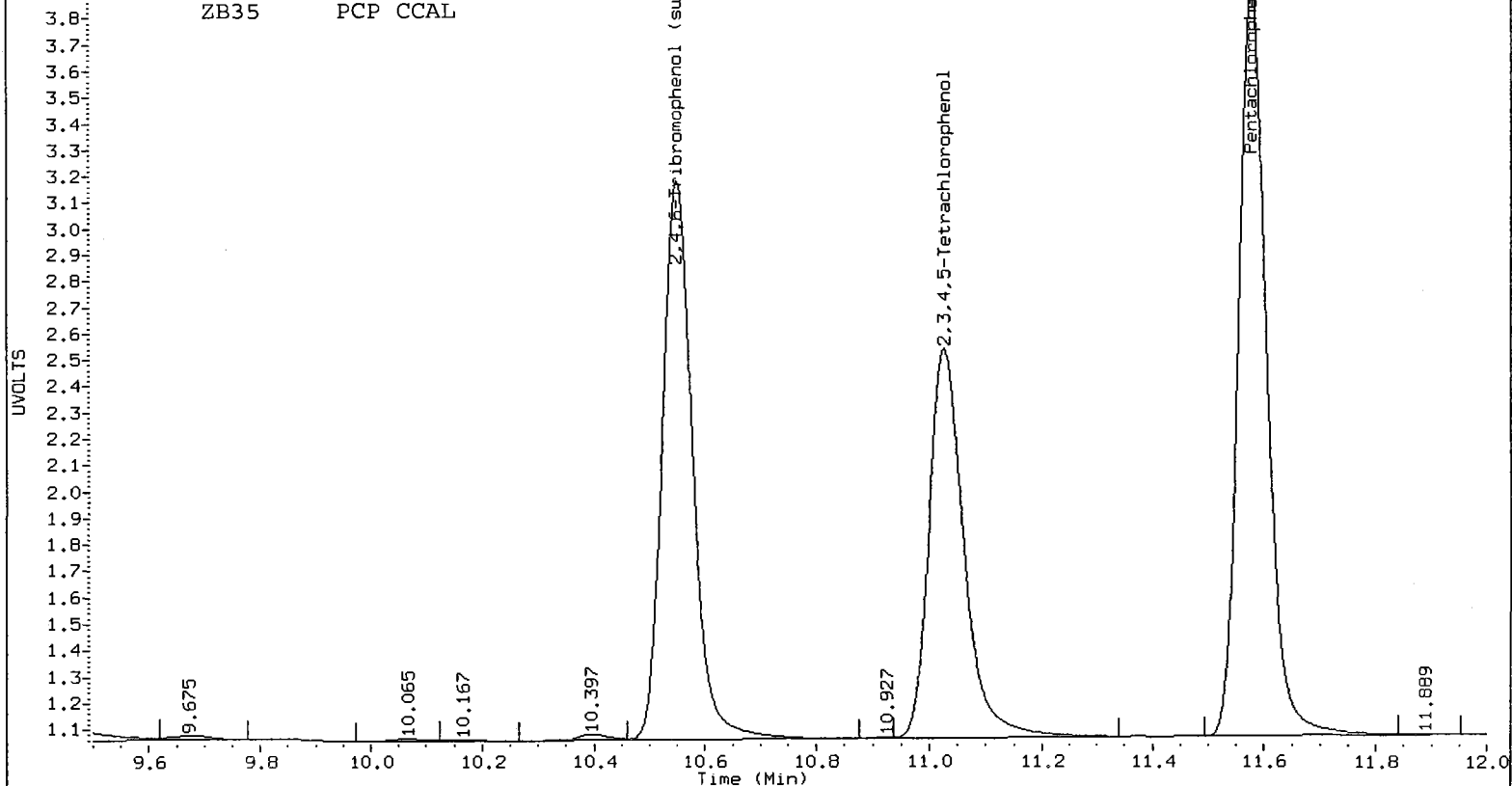
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 98.1 | 98.0 |
| 2,4,6-Trichlorophenol | 106.5 | 99.2 |
| 2,3,6-Trichlorophenol | 97.7 | 98.9 |
| 2,4,5-Trichlorophenol | 114.5 | 99.7 |
| 2,3,4-Trichlorophenol | 109.1 | 98.8 |
| 2,3,5,6-Tetrachlorophenol | 103.1 | 95.1 |
| 2,3,4,5-Tetrachlorophenol | 96.1 | 97.1 |
| 2,4-Dichlorophenol | 108.9 | 100.9 |
| 2,4,6-TBP (surr) | 95.8 | 96.4 |

ZB5 PCP CCAL



ZB35 PCP CCAL



7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1713

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.13 | 11.05 | 11.19 | 24.3 | 25.0 | -2.8 |
| 2,4,6-Trichlorophenol | 7.20 | 7.12 | 7.26 | 27.1 | 25.0 | 8.4 |
| 2,3,6-Trichlorophenol | 7.55 | 7.47 | 7.61 | 24.5 | 25.0 | -2.0 |
| 2,4,5-Trichlorophenol | 8.15 | 8.07 | 8.21 | 28.6 | 25.0 | 14.4 |
| 2,3,4-Trichlorophenol | 8.70 | 8.61 | 8.75 | 26.3 | 25.0 | 5.2 |
| 2,3,5,6-Tetrachlorophenol | 8.92 | 8.84 | 8.98 | 25.5 | 25.0 | 2.0 |
| 2,3,4,5-Tetrachlorophenol | 10.32 | 10.23 | 10.37 | 23.6 | 25.0 | -5.6 |
| 2,4-Dichlorophenol | 6.83 | 6.75 | 6.89 | 274 | 250 | 9.6 |
| 2,4,6-Tribromophenol (surr) | 9.91 | 9.83 | 9.97 | 23.8 | 25.0 | -4.8 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 6.1

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: QN21

Project: LORA LAKES APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No. (PCP):

Date Analyzed :03/17/10

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1713

| PCP MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT | NOM AMOUNT | %D |
|-----------------------------|-------|-----------|-------|----------------|---------------|------|
| | | FROM | TO | | | |
| Pentachlorophenol | 11.58 | 11.51 | 11.65 | 24.2 | 25.0 | -3.2 |
| 2,4,6-Trichlorophenol | 7.26 | 7.19 | 7.33 | 25.0 | 25.0 | 0.0 |
| 2,3,6-Trichlorophenol | 7.79 | 7.72 | 7.86 | 23.6 | 25.0 | -5.6 |
| 2,4,5-Trichlorophenol | 8.52 | 8.45 | 8.59 | 24.9 | 25.0 | -0.4 |
| 2,3,4-Trichlorophenol | 9.28 | 9.21 | 9.35 | 24.5 | 25.0 | -2.0 |
| 2,3,5,6-Tetrachlorophenol | 9.19 | 9.11 | 9.25 | 23.9 | 25.0 | -4.4 |
| 2,3,4,5-Tetrachlorophenol | 11.03 | 10.95 | 11.09 | 24.0 | 25.0 | -4.0 |
| 2,4-Dichlorophenol | 7.09 | 7.02 | 7.16 | 250 | 250 | 0.0 |
| 2,4,6-Tribromophenol (surr) | 10.55 | 10.48 | 10.62 | 24.1 | 25.0 | -3.6 |
| | | | | | | |
| | | | | | | |

AVERAGE %D = 2.6

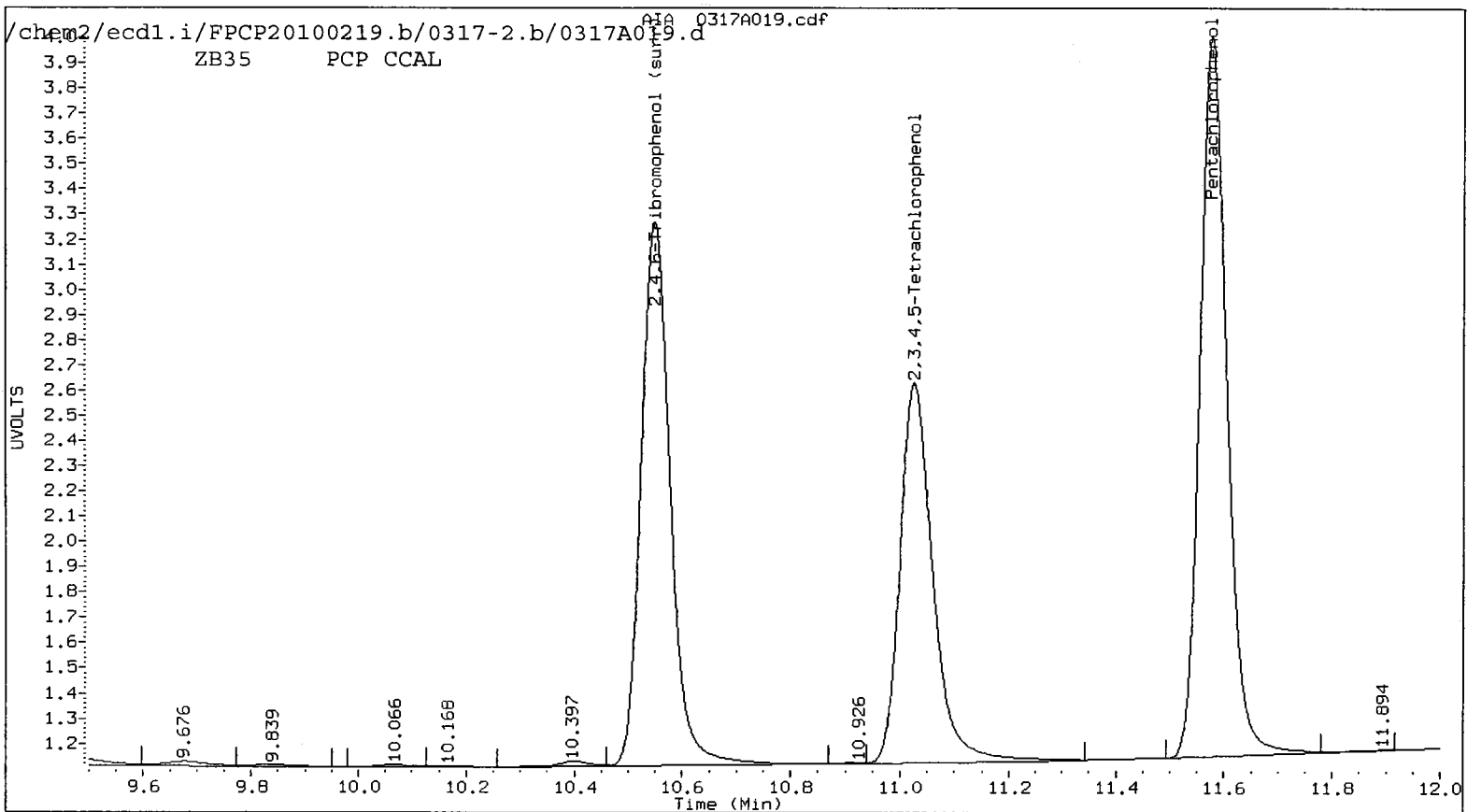
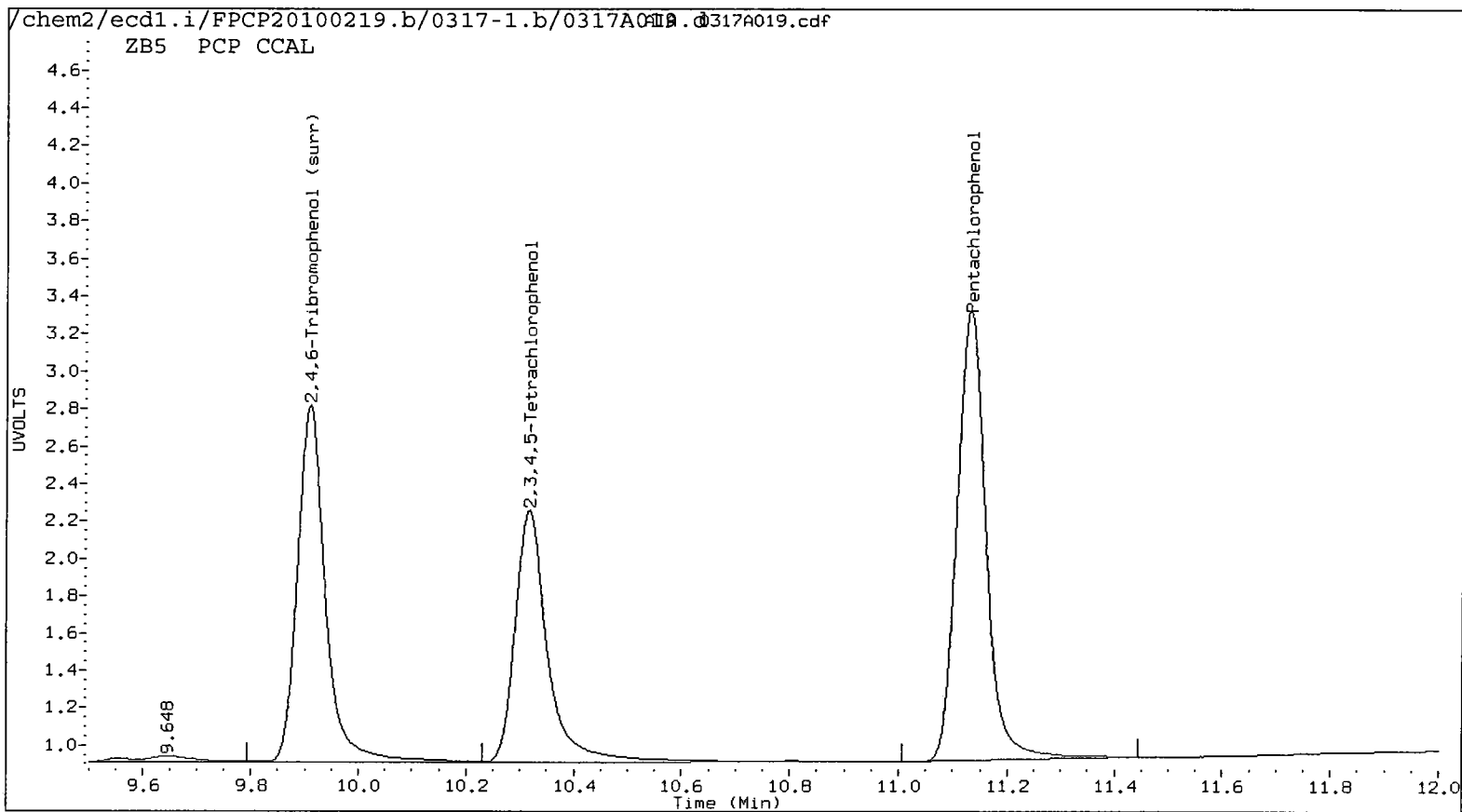
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 17:13
 Compound Sublist: all Report Date: 03/17/2010 19:03
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.133 | 0.010 | 445090 | 11.578 | 0.002 | 497362 | 24.3083 | 24.1968 | 0.5 | Pentachlorophenol |
| 7.196 | 0.006 | 273921 | 7.264 | 0.002 | 283930 | 27.1077 | 24.9614 | 8.2 | 2,4,6-Trichlorophenol |
| 7.549 | 0.009 | 245313 | 7.789 | 0.002 | 266664 | 24.4814 | 23.6414 | 3.5 | 2,3,6-Trichlorophenol |
| 8.154 | 0.017 | 144574 | 8.521 | 0.001 | 147078 | 28.5641 | 24.9253 | 13.6 | 2,4,5-Trichlorophenol |
| 8.700 | 0.020 | 185886 | 9.281 | 0.000 | 191122 | 26.2823 | 24.4804 | 7.1 | 2,3,4-Trichlorophenol |
| 8.923 | 0.011 | 391674 | 9.185 | 0.002 | 405821 | 25.5171 | 23.8888 | 6.6 | 2,3,5,6-Tetrachlorophenol |
| 10.318 | 0.016 | 277239 | 11.027 | 0.003 | 314598 | 23.6076 | 24.0494 | 1.9 | 2,3,4,5-Tetrachlorophenol |
| 6.826 | 0.009 | 335133 | 7.093 | 0.002 | 441316 | 274.4741 | 250.4834 | 9.1 | 2,4-Dichlorophenol |
| 9.911 | 0.012 | 347914 | 10.549 | 0.003 | 403249 | 23.8 | 24.1 | 1.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|-------|
| Pentachlorophenol | 97.2 | 96.8 |
| 2,4,6-Trichlorophenol | 108.4 | 99.8 |
| 2,3,6-Trichlorophenol | 97.9 | 94.6 |
| 2,4,5-Trichlorophenol | 114.3 | 99.7 |
| 2,3,4-Trichlorophenol | 105.1 | 97.9 |
| 2,3,5,6-Tetrachlorophenol | 102.1 | 95.6 |
| 2,3,4,5-Tetrachlorophenol | 94.4 | 96.2 |
| 2,4-Dichlorophenol | 109.8 | 100.2 |
| 2,4,6-TBP (surr) | 95.3 | 96.6 |



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 16:53
 Compound Sublist: all Report Date: 03/17/2010 18:53
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

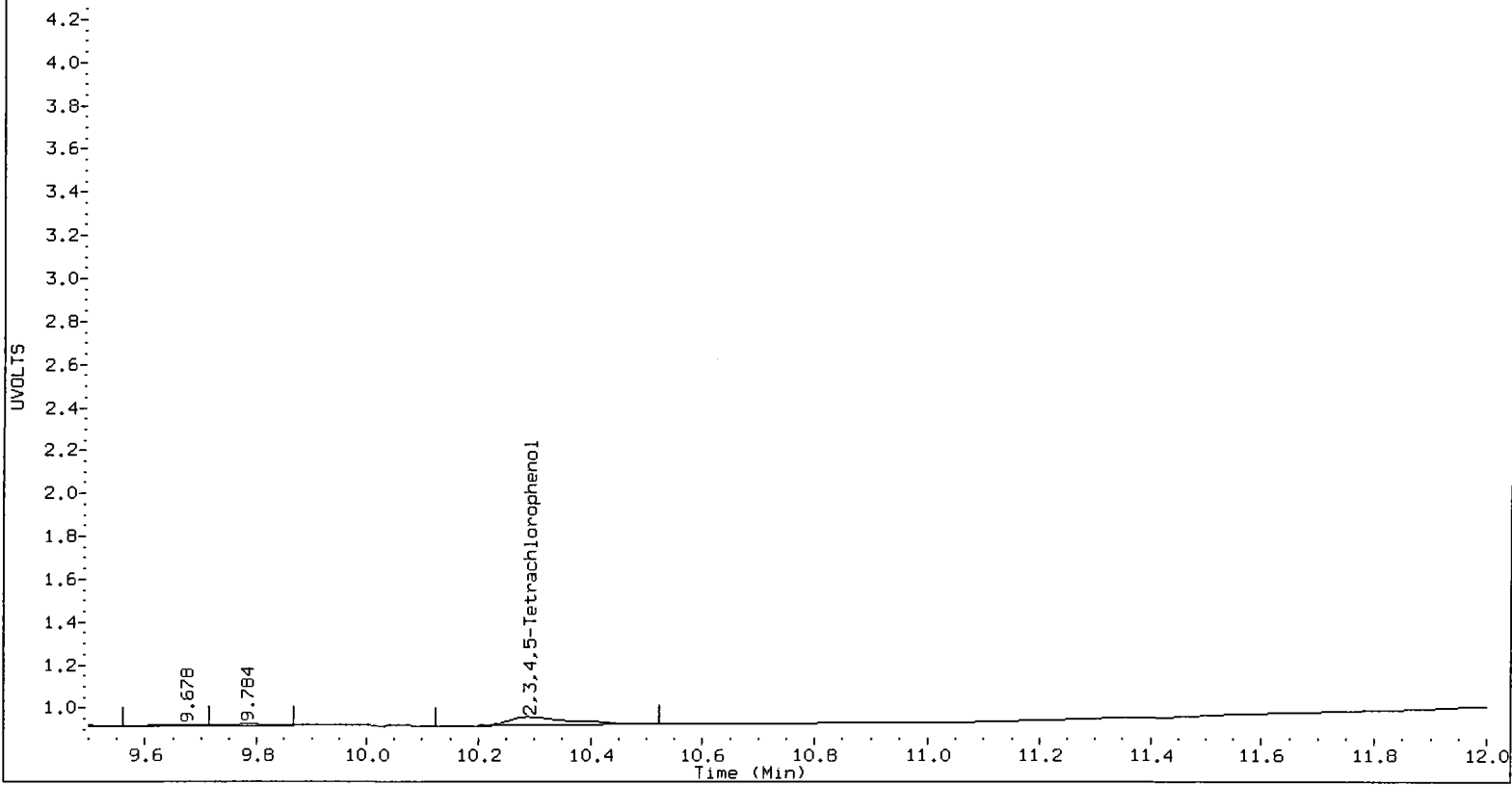
| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|--------|------------------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ---- | | | 11.621 | 0.045 | 8941 | 0.0000 | 0.4350 <i>IP</i> | --- | Pentachlorophenol |
| 7.142 | -0.048 | 21855 | 7.233 | -0.029 | 1953 | 2.1629 | 0.1717 | 170.6* | 2,4,6-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| 8.189 | 0.052 | 1142 | ---- | | | 0.2258 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| 8.891 | -0.021 | 5628 | ---- | | | 0.3667 | 0.0000 | --- | 2,3,5,6-Tetrachlorophenol |
| 10.292 | -0.010 | 15285 | ---- | | | 1.3016 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4-Dichlorophenol |
| ---- | | | ---- | | | 0.0 | 0.0 <i>IP</i> | --- | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 0.0 | 0.0 |

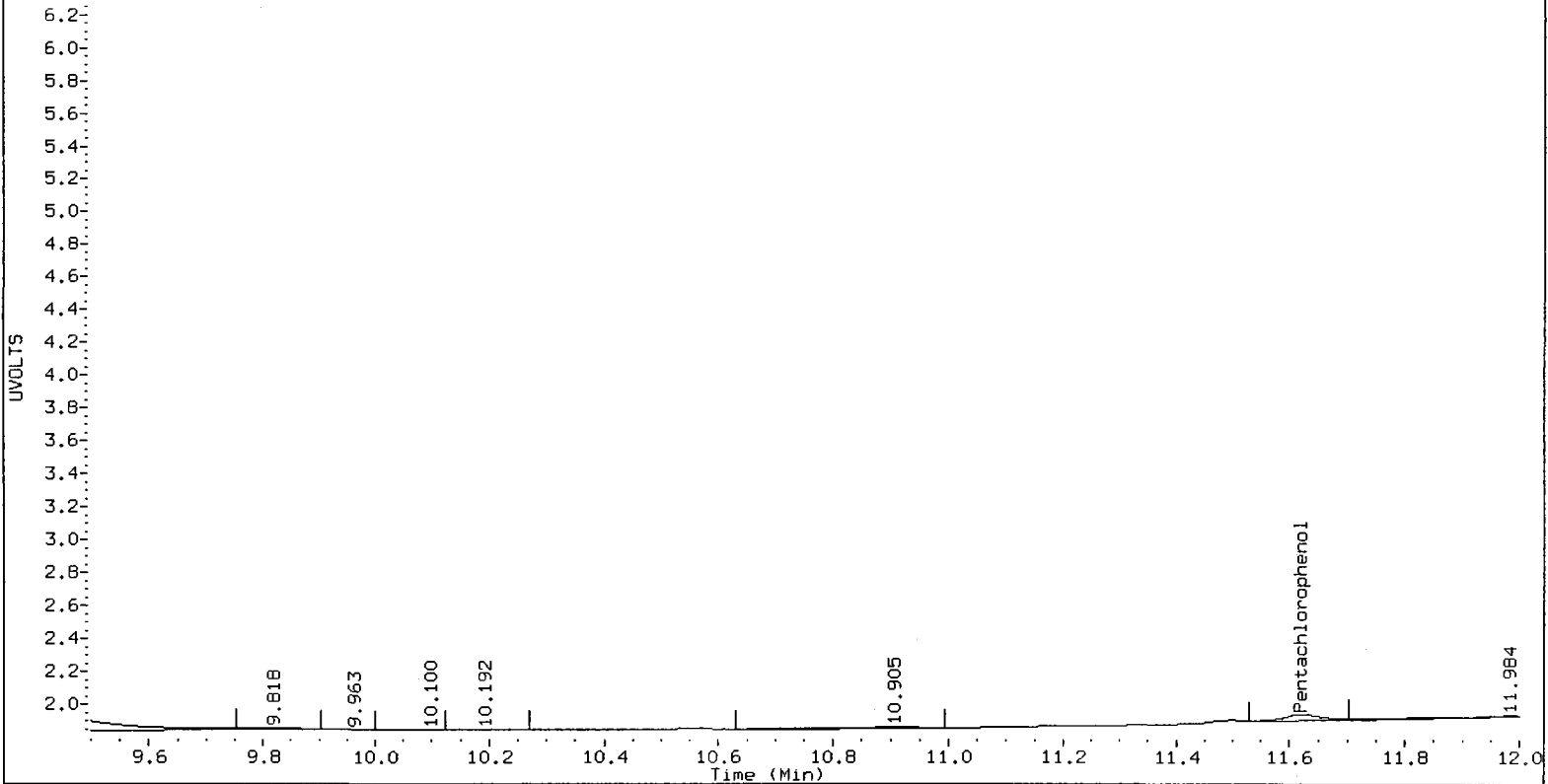
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ZB5 DRVBLK 031610



/chem2/ecd1.i/FPCP20100219.b/0317-2.b/0317A018.d

ZB35 DRVBLK 031610



PCP/Chlorophenols ANALYSIS
QC Raw Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments


ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MB-031610
METHOD BLANK

Lab Sample ID: MB-031610
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: NA
Date Received: NA

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 12:34
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 60.4% |
|----------------------|-------|

Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

AR 3/17/2010

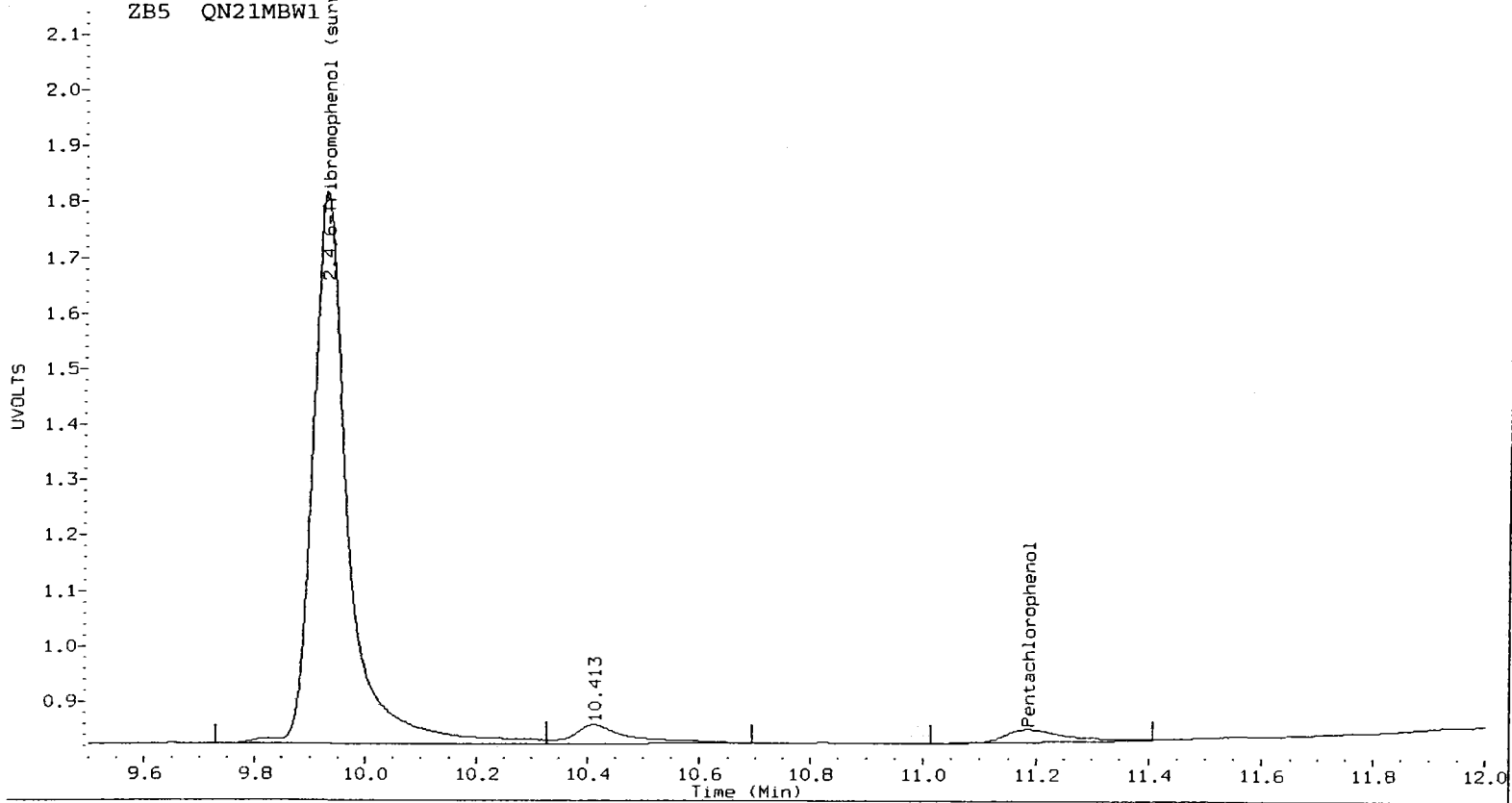
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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 12:34
 Compound Sublist: all Report Date: 03/17/2010 14:48
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|--------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 11.186 | 0.063 | 8126 | 11.591 | 0.015 | 996 | 0.4438 | 0.0485 | 160.6* | Pentachlorophenol |
| 7.207 | 0.017 | 9979 | ---- | ---- | ---- | 0.9876 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | ---- | ---- | 7.796 | 0.009 | 1001 | 0.0000 | 0.0888 | --- | 2,3,6-Trichlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| 8.714 | 0.034 | 41881 | ---- | ---- | ---- | 5.9215 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4-Dichlorophenol |
| 9.929 | 0.030 | 220970 | 10.562 | 0.016 | 240228 | 15.1 | 14.4 | 5.1 | 2,4,6-Tribromophenol (surr) |

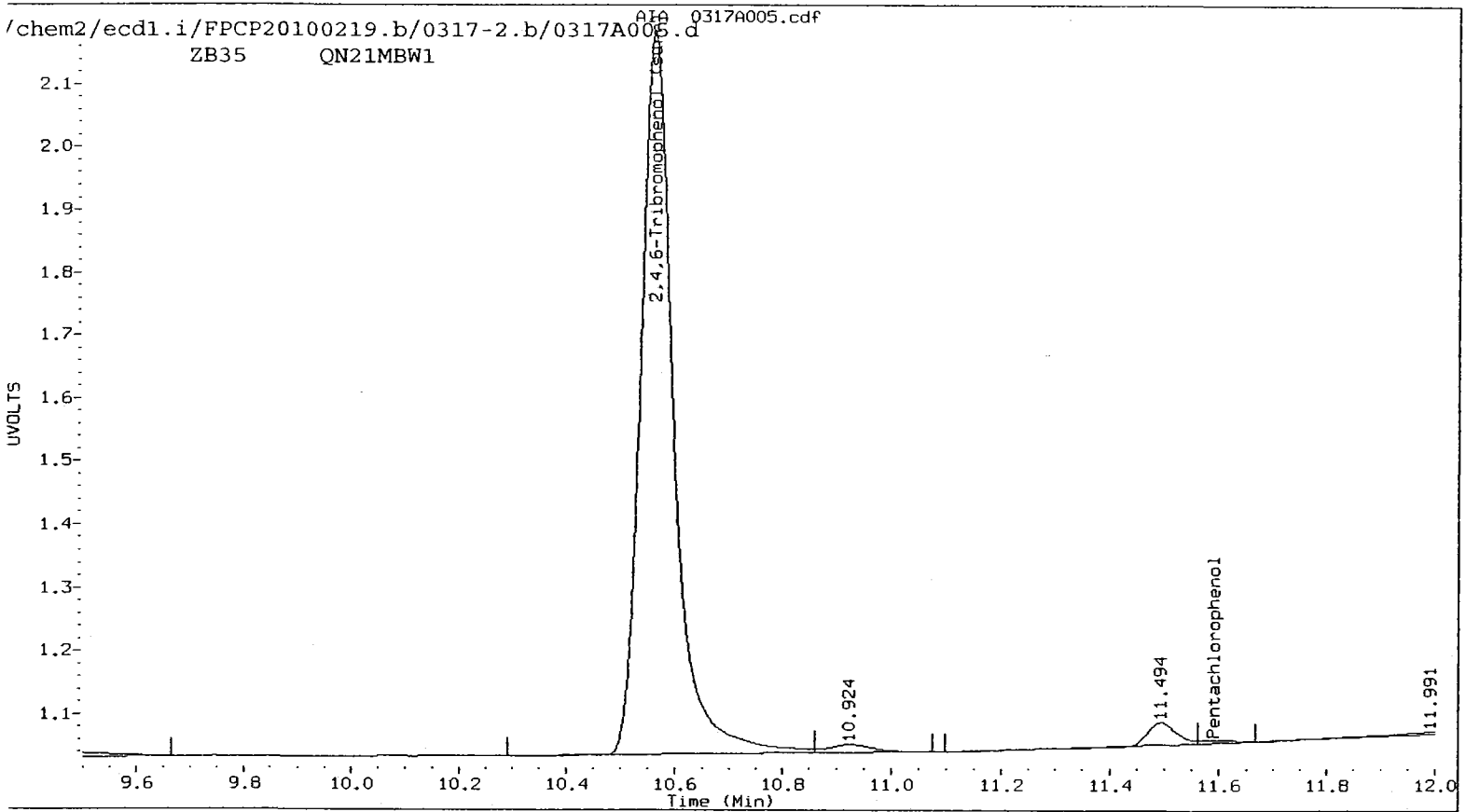
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 60.5 | 57.5 |

ZB5 QN21MBW1



ZB35 QN21MBW1



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

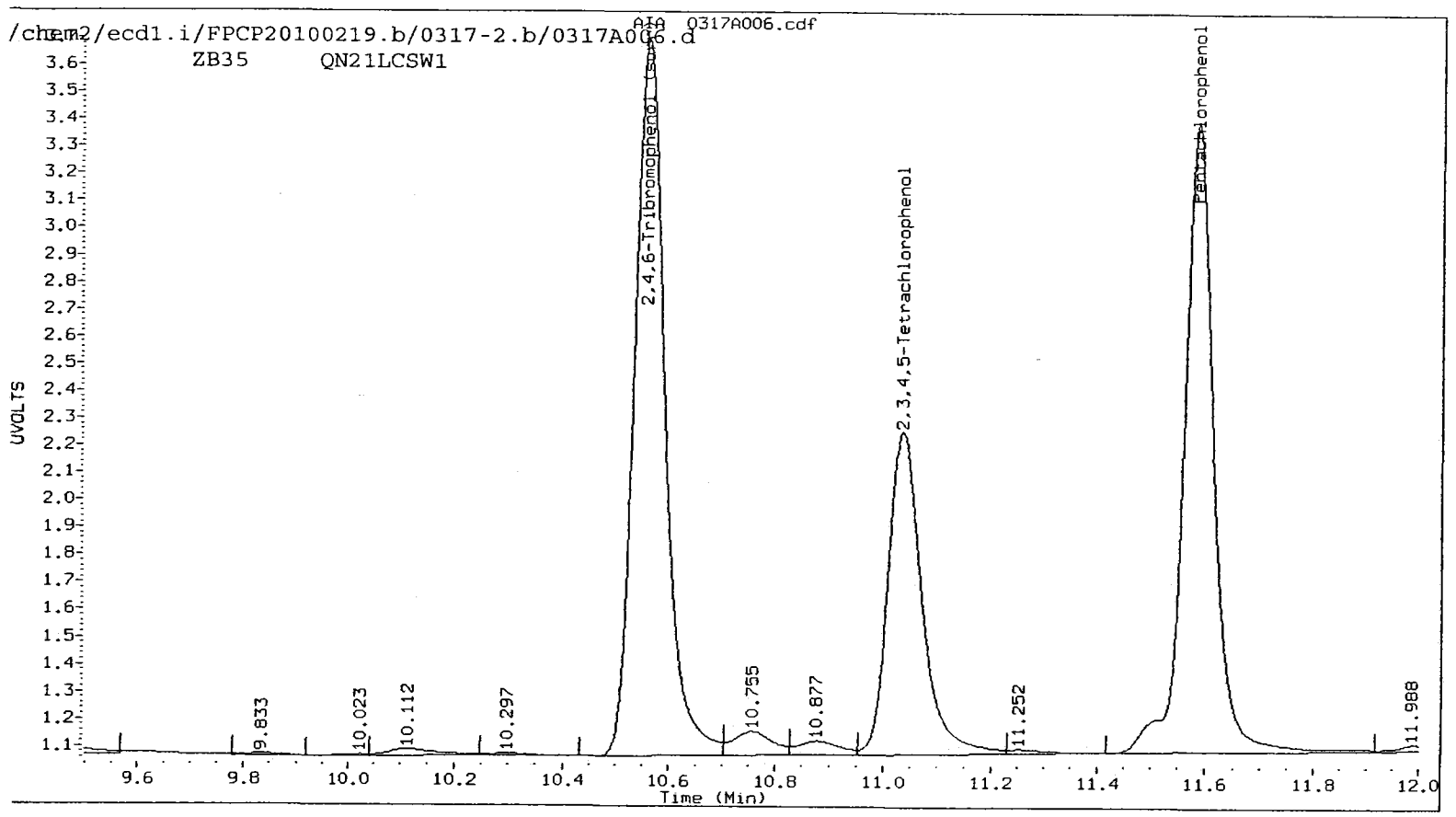
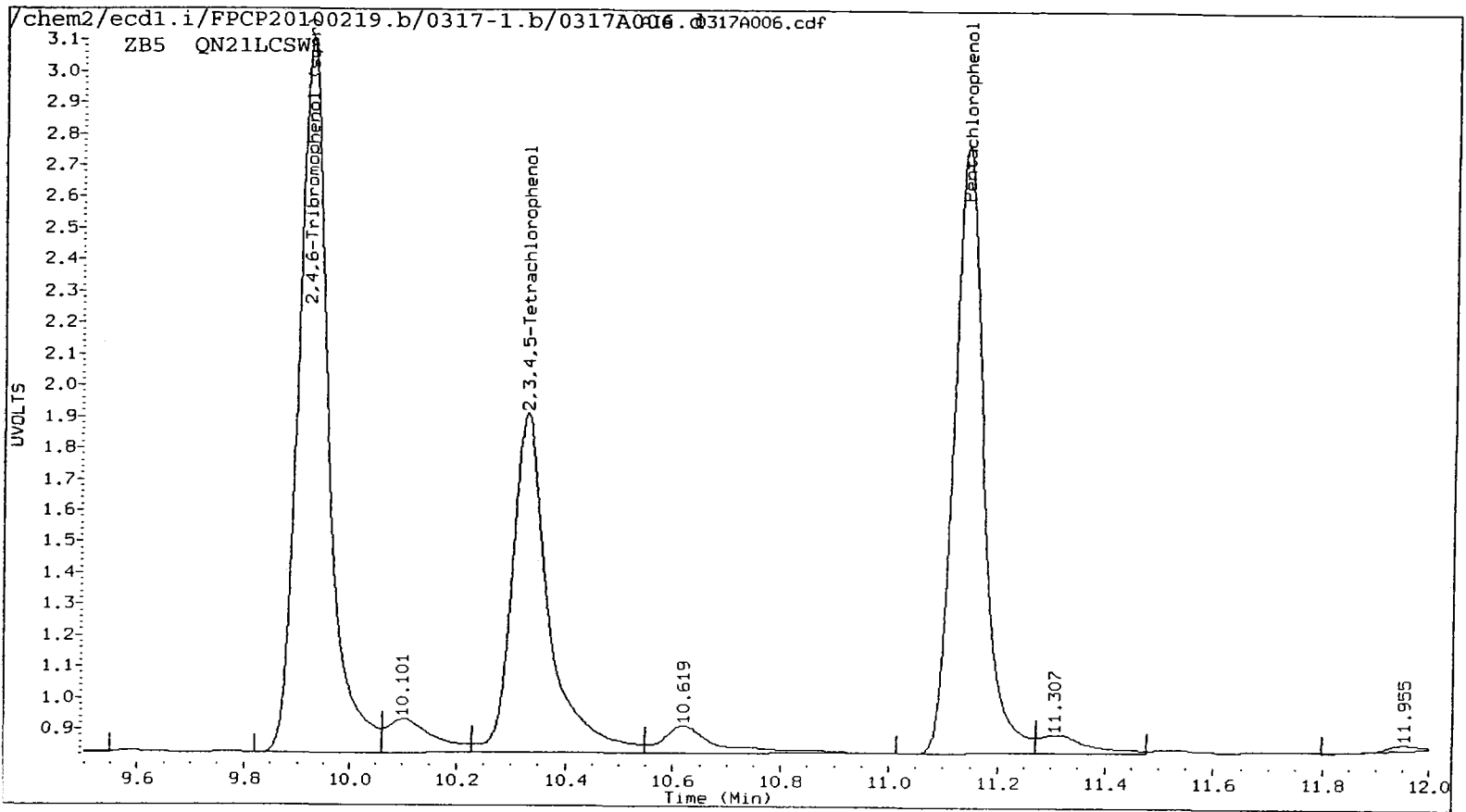
AR 3/17/2010

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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 12:54
 Compound Sublist: all Report Date: 03/17/2010 14:48
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | RT | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|--------|----------------------------|----------------|----------------|------|-----------------------------|
| 11.139 | 0.016/367080 | 11.584 | 0.008/440946 | 20.0479 | 21.4521 | 6.8 | Pentachlorophenol |
| 7.199 | 0.009 181512 | 7.268 | 0.006 201254 | 17.9628 | 17.6930 | 1.5 | 2,4,6-Trichlorophenol |
| 7.553 | 0.013 214182 | 7.794 | 0.007 202516 | 21.3746 | 17.9543 | 17.4 | 2,3,6-Trichlorophenol |
| 8.167 | 0.030 105478 | 8.532 | 0.012 109660 | 20.8398 | 18.5840 | 11.4 | 2,4,5-Trichlorophenol |
| 8.715 | 0.035 136655 | 9.294 | 0.014 142510 | 19.3215 | 18.2537 | 5.7 | 2,3,4-Trichlorophenol |
| 8.931 | 0.019 308643 | 9.194 | 0.010 312218 | 20.1078 | 18.3789 | 9.0 | 2,3,5,6-Tetrachlorophenol |
| 10.327 | 0.024 253327 | 11.035 | 0.012 257344 | 21.5714 | 19.6726 | 9.2 | 2,3,4,5-Tetrachlorophenol |
| 6.832 | 0.015 / 34447 | 7.099 | 0.008 / 42155 | 69.9682 | 74.7209 | 6.6 | 2,4-Dichlorophenol |
| 9.921 | 0.022 / 452797 | 10.558 | 0.011 522949 | 31.0 | 31.3 | 0.9 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 80.2 | 85.8 |
| 2,4,6-Trichlorophenol | 71.9 | 70.8 |
| 2,3,6-Trichlorophenol | 85.5 | 71.8 |
| 2,4,5-Trichlorophenol | 83.4 | 74.3 |
| 2,3,4-Trichlorophenol | 77.3 | 73.0 |
| 2,3,5,6-Tetrachlorophenol | 80.4 | 73.5 |
| 2,3,4,5-Tetrachlorophenol | 86.3 | 78.7 |
| 2,4-Dichlorophenol | 28.0 | 29.9 |
| 2,4,6-TBP (surr) | 62.0 | 62.6 |



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

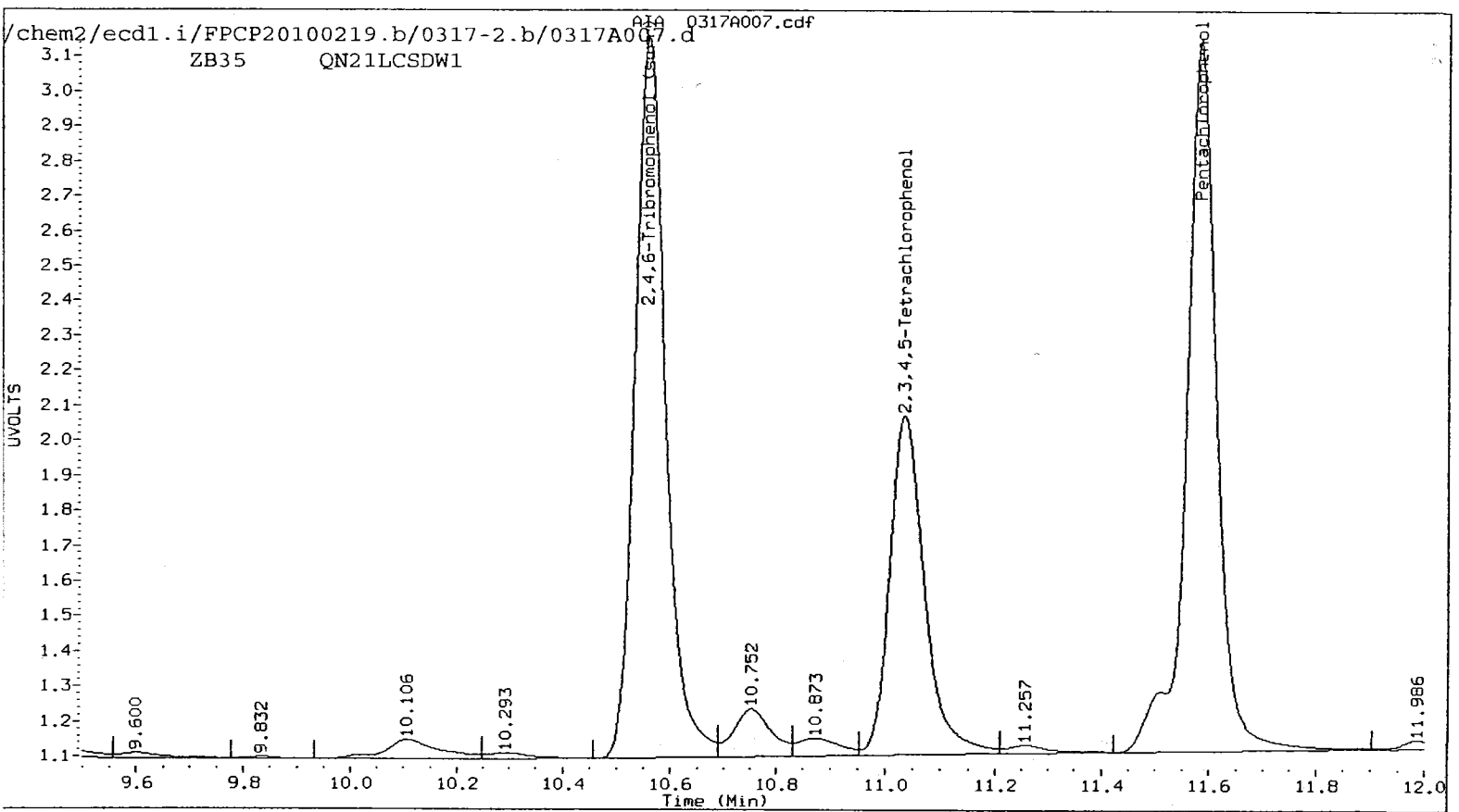
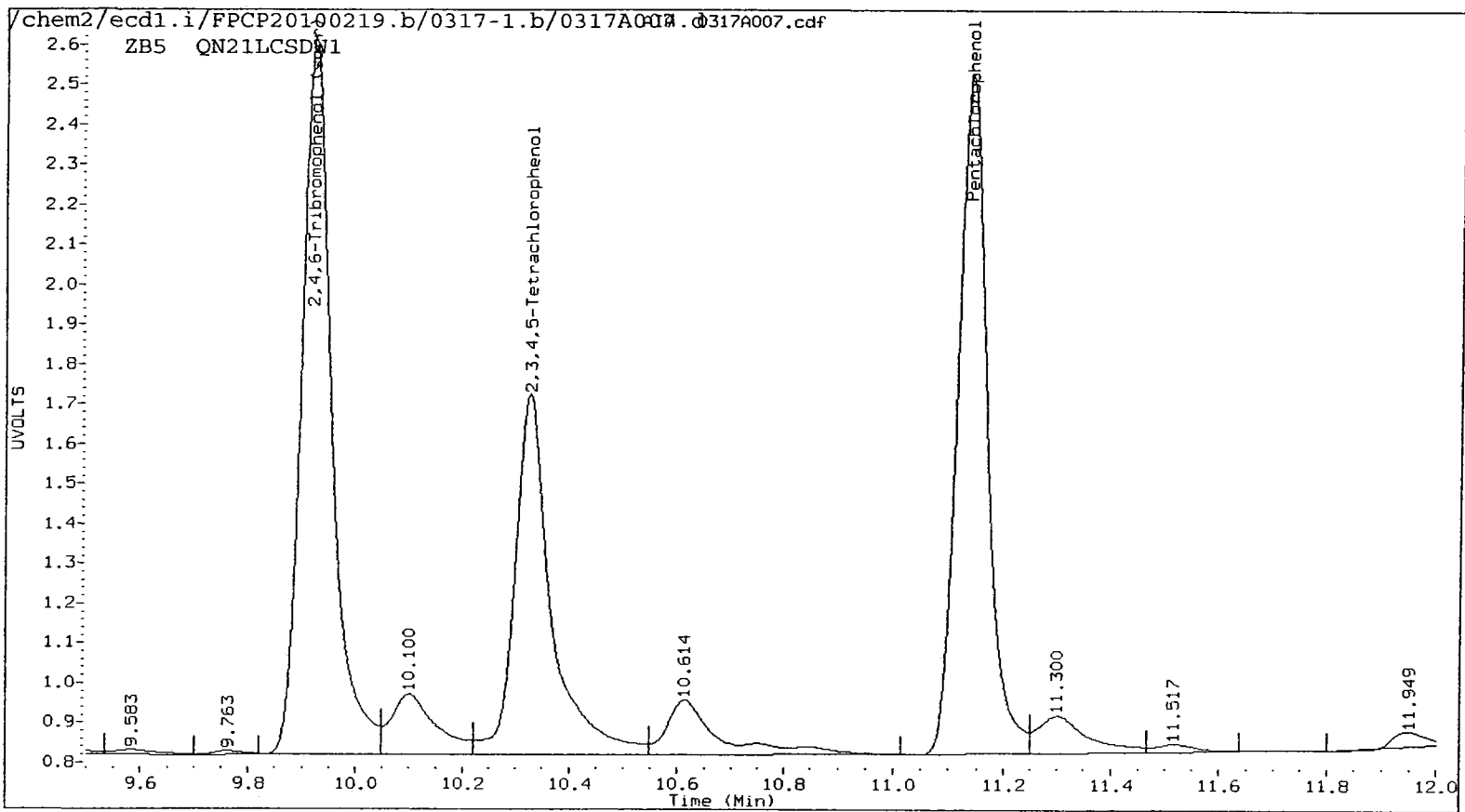
AR 3/17/2010

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 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 13:14
 Compound Sublist: all Report Date: 03/17/2010 16:28
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|---------|---------|------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 11.138 | 0.015 319079 | 11.583 | 0.007 398600 | 17.4263 | 19.3920 | 10.7 | Pentachlorophenol |
| 7.199 | 0.009 145619 | 7.268 | 0.006 154838 | 14.4107 | 13.6124 | 5.7 | 2,4,6-Trichlorophenol |
| 7.555 | 0.015 188609 | 7.794 | 0.007 164013 | 18.8225 | 14.5407 | 25.7 | 2,3,6-Trichlorophenol |
| 8.170 | 0.033 77927 | 8.533 | 0.014 82292 | 15.3965 | 13.9461 | 9.9 | 2,4,5-Trichlorophenol |
| 8.717 | 0.036 94279 | 9.294 | 0.014 101286 | 13.3300 | 12.9735 | 2.7 | 2,3,4-Trichlorophenol |
| 8.932 | 0.020 266123 | 9.195 | 0.011 273120 | 17.3376 | 16.0773 | 7.5 | 2,3,5,6-Tetrachlorophenol |
| 10.325 | 0.023 215676 | 11.034 | 0.011 209747 | 18.3653 | 16.0341 | 13.6 | 2,3,4,5-Tetrachlorophenol |
| 6.834 | 0.017 20554 | 7.100 | 0.010 30944 | 41.7498 | 54.8487 | 27.1 | 2,4-Dichlorophenol |
| 9.921 | 0.022 353060 | 10.558 | 0.012 402696 | 24.2 | 24.1 | 0.3 | 2,4,6-Tribromophenol (surr) |


PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 69.7 | 77.6 |
| 2,4,6-Trichlorophenol | 57.6 | 54.4 |
| 2,3,6-Trichlorophenol | 75.3 | 58.2 |
| 2,4,5-Trichlorophenol | 61.6 | 55.8 |
| 2,3,4-Trichlorophenol | 53.3 | 51.9 |
| 2,3,5,6-Tetrachlorophenol | 69.4 | 64.3 |
| 2,3,4,5-Tetrachlorophenol | 73.5 | 64.1 |
| 2,4-Dichlorophenol | 16.7 | 21.9 |
| 2,4,6-TBP (surr) | 48.4 | 48.2 |



ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: 
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:14
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 61.6% |
|----------------------|-------|

Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

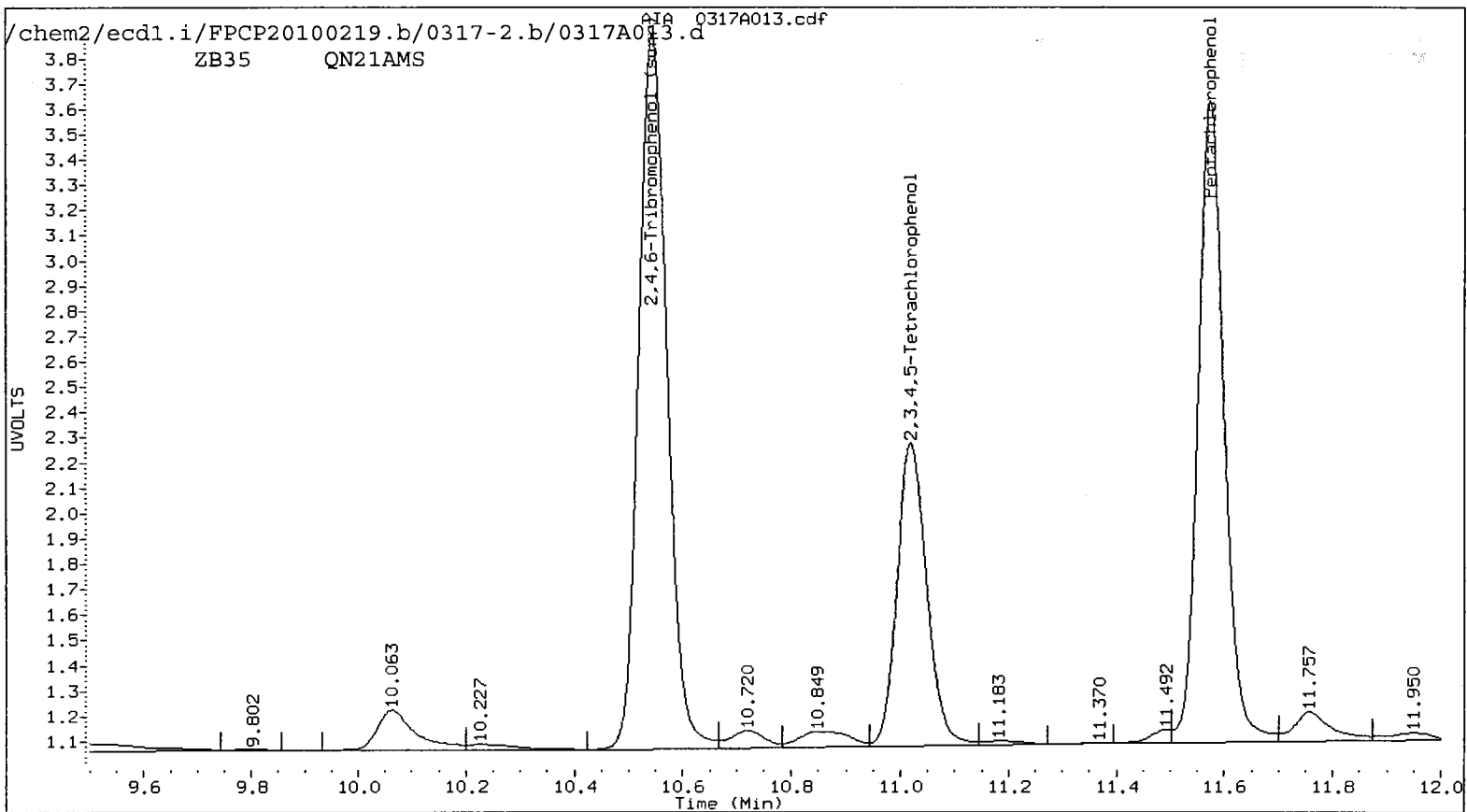
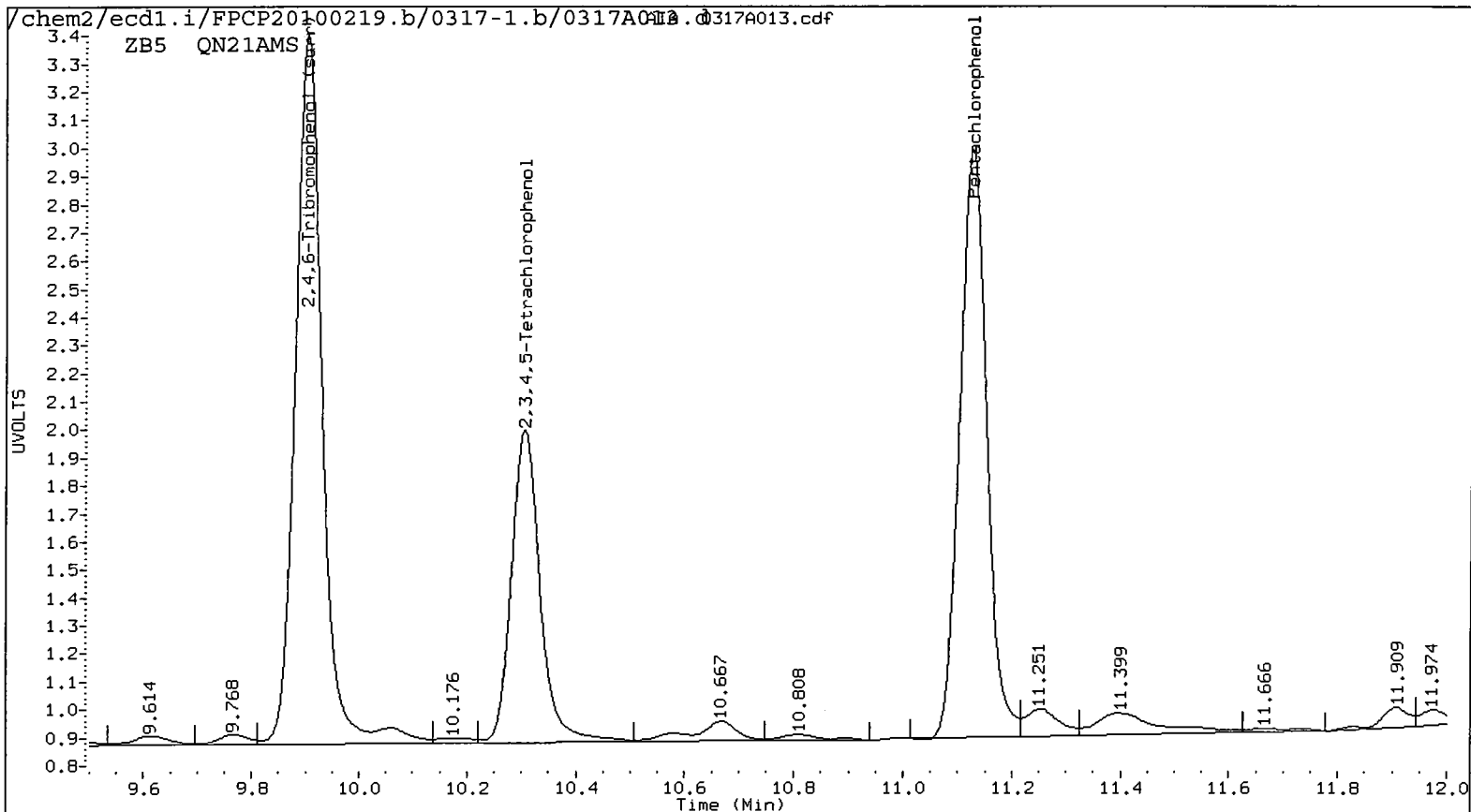
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A013.d ARI ID: QN21AMS
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A013.d Client ID: CB31A031010COMP MS
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 15:14
 Compound Sublist: all Report Date: 03/17/2010 17:06
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | RT | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|--------|----------------------------|----------------|----------------|------|-----------------------------|
| 11.125 | 0.002/361280 | 11.574 | -0.002/427438 | <u>19.7311</u> | <u>20.7950</u> | 5.3 | Pentachlorophenol |
| 7.196 | 0.006 183726 | 7.264 | 0.001 189745 | 18.1818 | 16.6813 | 8.6 | 2,4,6-Trichlorophenol |
| 7.547 | 0.007 175395 | 7.788 | 0.001 183529 | 17.5038 | 16.2710 | 7.3 | 2,3,6-Trichlorophenol |
| 8.148 | 0.010 107117 | 8.517 | -0.002 105971 | 21.1636 | 17.9588 | 16.4 | 2,4,5-Trichlorophenol |
| 8.691 | 0.010 131273 | 9.278 | -0.003 126572 | 18.5606 | 16.2123 | 13.5 | 2,3,4-Trichlorophenol |
| 8.917 | 0.005 283706 | 9.182 | -0.001 309672 | 18.4831 | 18.2290 | 1.4 | 2,3,5,6-Tetrachlorophenol |
| 10.306 | 0.004 204002 | 11.020 | -0.004 224866 | 17.3712 | 17.1898 | 1.0 | 2,3,4,5-Tetrachlorophenol |
| 6.829 | 0.012/47963 | 7.094 | 0.003 56496 | 97.4200 | 100.1406 | 2.8 | 2,4-Dichlorophenol |
| 9.903 | 0.004/441992 | 10.544 | -0.002/514017 | <u>30.3</u> | <u>30.8</u> | 1.6 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 78.9 | 83.2 |
| 2,4,6-Trichlorophenol | 72.7 | 66.7 |
| 2,3,6-Trichlorophenol | 70.0 | 65.1 |
| 2,4,5-Trichlorophenol | 84.7 | 71.8 |
| 2,3,4-Trichlorophenol | 74.2 | 64.8 |
| 2,3,5,6-Tetrachlorophenol | 73.9 | 72.9 |
| 2,3,4,5-Tetrachlorophenol | 69.5 | 68.8 |
| 2,4-Dichlorophenol | 39.0 | 40.1 |
| 2,4,6-TBP (surr) | 60.5 | 61.5 |





ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE DUP

Lab Sample ID: QN21A
LIMS ID: 10-5974
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/18/10

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

Date Sampled: 03/10/10
Date Received: 03/10/10

Date Extracted: 03/16/10
Date Analyzed: 03/17/10 15:34
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 $\mu\text{g/L}$ (ppb)

Chlorophenol Surrogate Recovery

| | |
|----------------------|-------|
| 2,4,6-Tribromophenol | 61.6% |
|----------------------|-------|

Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

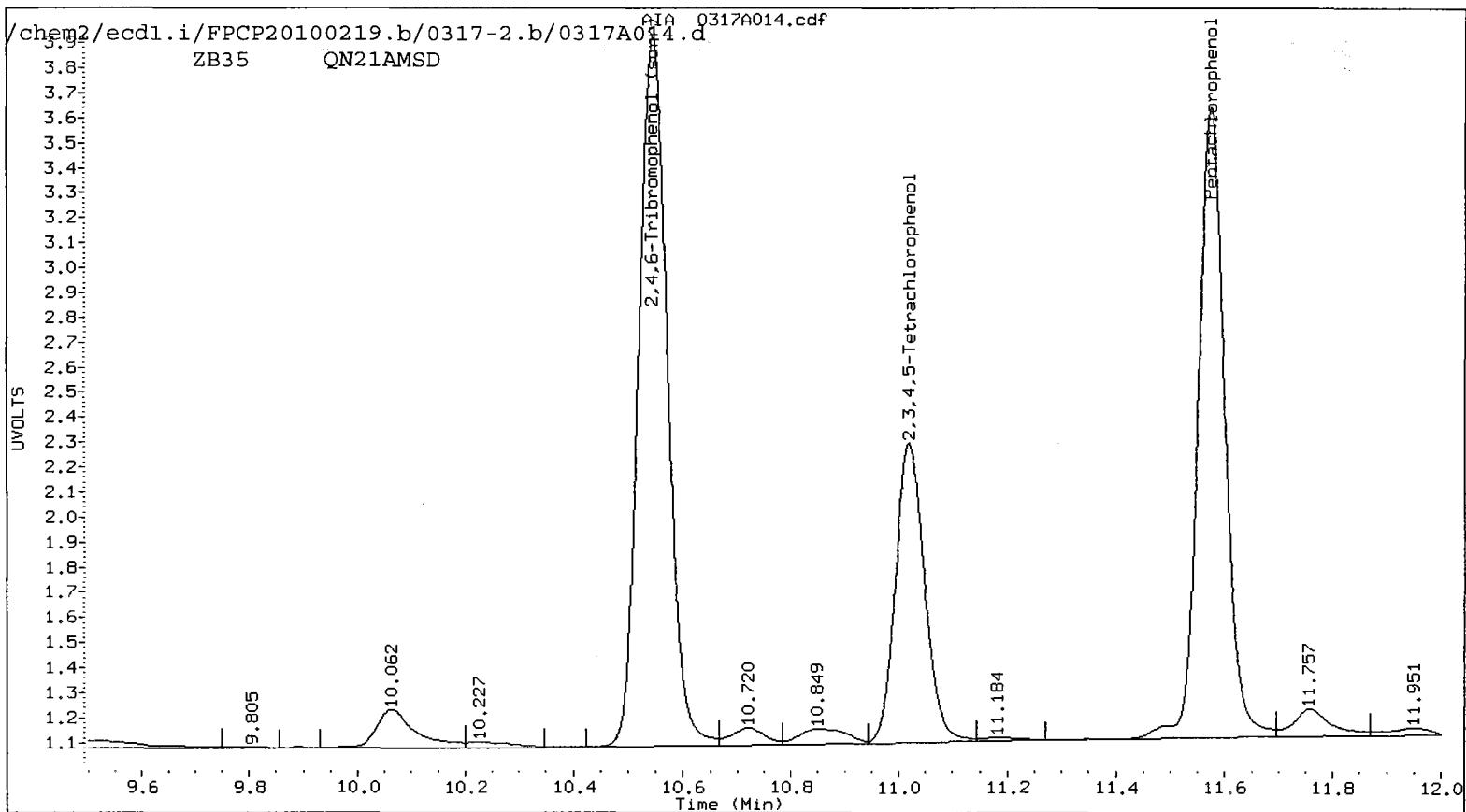
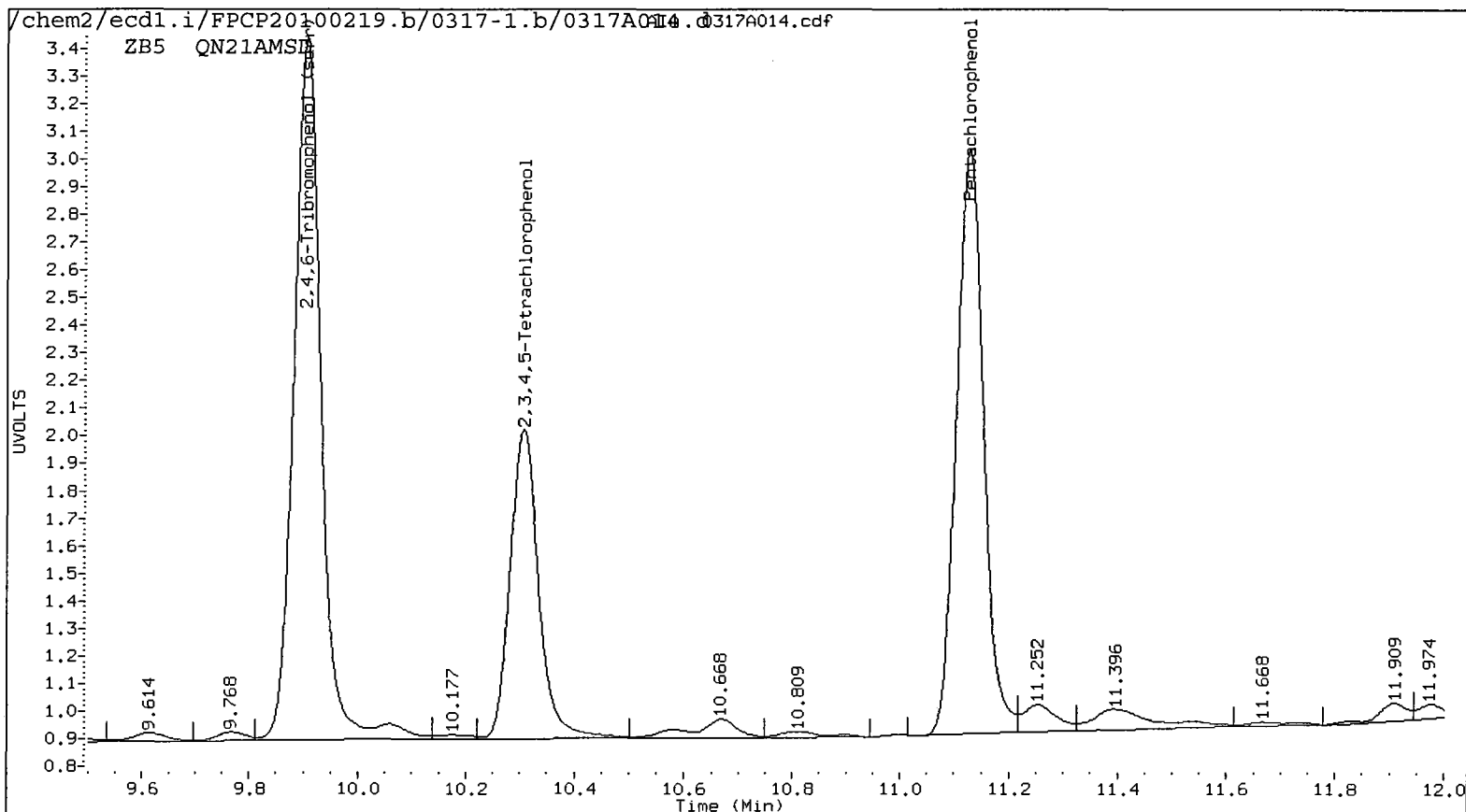
AR 3/17/2010

Data file 1: /chem2/ecdl.i/FPCP20100219.b/0317-1.b/0317A014.d ARI ID: QN21AMSD
 Data file 2: /chem2/ecdl.i/FPCP20100219.b/0317-2.b/0317A014.d Client ID: CB31A031010COMP MSD
 Method: /chem2/ecdl.i/FPCP20100219.b/FPCP.m Injection Date: 17-MAR-2010 15:34
 Compound Sublist: all Report Date: 03/17/2010 18:53
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|----------|----------|------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 11.125 | 0.002 362834 | 11.574 | -0.002 435813 | 19.8160 | 21.2024 | 6.8 | Pentachlorophenol |
| 7.195 | 0.005 189234 | 7.263 | 0.001 190966 | 18.7269 | 16.7886 | 10.9 | 2,4,6-Trichlorophenol |
| 7.546 | 0.006 179868 | 7.788 | 0.001 185454 | 17.9502 | 16.4416 | 8.8 | 2,3,6-Trichlorophenol |
| 8.147 | 0.010 107308 | 8.517 | -0.002 105189 | 21.2013 | 17.8264 | 17.3 | 2,4,5-Trichlorophenol |
| 8.690 | 0.010 136297 | 9.277 | -0.003 126893 | 19.2710 | 16.2534 | 17.0 | 2,3,4-Trichlorophenol |
| 8.917 | 0.005 285905 | 9.182 | -0.002 312037 | 18.6264 | 18.3682 | 1.4 | 2,3,5,6-Tetrachlorophenol |
| 10.306 | 0.003 205264 | 11.020 | -0.004 225316 | 17.4788 | 17.2243 | 1.5 | 2,3,4,5-Tetrachlorophenol |
| 6.828 | 0.011 49793 | 7.093 | 0.002 57484 | 101.1382 | 101.8905 | 0.7 | 2,4-Dichlorophenol |
| 9.904 | 0.005 442842 | 10.544 | -0.002 513953 | 30.3 | 30.8 | 1.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 79.3 | 84.8 |
| 2,4,6-Trichlorophenol | 74.9 | 67.2 |
| 2,3,6-Trichlorophenol | 71.8 | 65.8 |
| 2,4,5-Trichlorophenol | 84.8 | 71.3 |
| 2,3,4-Trichlorophenol | 77.1 | 65.0 |
| 2,3,5,6-Tetrachlorophenol | 74.5 | 73.5 |
| 2,3,4,5-Tetrachlorophenol | 69.9 | 68.9 |
| 2,4-Dichlorophenol | 40.5 | 40.8 |
| 2,4,6-TBP (surr) | 60.7 | 61.5 |



PCP/Chlorophenols ANALYSIS
Extraction Bench Sheets/Run Logs

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



RUSH

Preparation Test PCP # 1

ARI Job No(s) QN21, QN92

In-House (0.25ppb)
Batch set up by: JH

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | KD Exchange To Hexane (X 2) | Turbo Vap (1) 2 3 | Final Effective Volume | Volume to Lab | Derivatize | Comments |
|----------|-------------------------|------------------|------------------|-----------------------------|-------------------|------------------------|---------------|-----------------|----------|
| | QN21 MB | Date 03/16/10 | 500mL | | | 50mL | 1-2mL | w/ ~ 9mL | |
| | SB | ↓ | ↓ | | | ↓ | ↓ | derivatized | |
| | SB Dup. | ↓ | ↓ | | | ↓ | ↓ | hexane | |
| 6 | A | checked | 500mL | | | | | AR 3/16/2010 | |
| 7 | Ams | | | | | | | diluted 5x | |
| 9 | Amsd | | | | | | | to 50µL FEV | |
| 3 | B | | | | | | | AR 3/17/2010 | |
| 3 | C | | | | | | | | |
| 2 | ↓ D | | | | | | | | |
| 1 | QN92 A | | | | | | | | |
| | | | | | | | | Diazalol I 5168 | |
| | | | | | | | | 3M NaOH 5757-E | |

Analyst/Date: AR 03/16/10 → 3-16-10 JS SP 3/16/10 →

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|------------|-----------------|---------|------------|
| Surrogate | F 1663-3 | 100µL 12.5 | 12/17/14 | AR | w 03/16/10 |
| Spike | 6 1655-3 | 100µL 12.5 | 9/24/14 | AR | w 03/16/10 |

Extraction Time: 9:53
125

- SPECIAL INSTRUCTIONS: 1. Add surr/spike. 2. Acidify all with 1:1 Sulfuric Acid 3. Extract 3X with 30mL DCM.
4. KD (NO Drying Column) at 80° to 5mL. 5. Exchange (2 X with 20mL) Hexane at 100°. 6. Turbo Vap to 1-2mL
7. Pipet using Hexane into Herb Tubes. 8. GC Analyst to Derivatize. A. Archive Y (N)

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 2/18/2010 Analysis: Herb/PCP Analyst: JR #AR

GC Program: HERB.M # Column No: 150608/148416 Column Type: ZB5/ZB35

Instrument Tune (U or .CT.): PCPF#ST.M EM Voltage: NA

Calibration File: FPCP20100219.5 # HERB2000818.5 Curve Date: 2/18/2010

| IS/SS | Ical/CCal | LCS/ICV |
|-------|-----------|---------|
| | 1659-1 | 1353-2 |
| | 1663-2 | 1324-1 |
| | | 1702-3 |

GC LOG SUMMARY FOR DATABATCH - /chem2/ecdl.i/PCP20100218.b/ical-2.1

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|------|----------------|-----------|
| 1 | 18-FEB-2010 14:52 | 0218A002.d | 1 | PCPD | |
| 2 | 18-FEB-2010 15:28 | 0218A003.d | 1 | PCPA | |
| 3 | 18-FEB-2010 16:04 | 0218A004.d | 1 | PCPB | |
| 4 | 18-FEB-2010 16:40 | 0218A005.d | 1 | PCPC | |
| 5 | 18-FEB-2010 17:17 | 0218A006.d | 1 | PCPE | |
| 6 | 18-FEB-2010 17:53 | 0218A007.d | 1 | PCPF | |
| 7 | 18-FEB-2010 18:29 | 0218A008.d | 1 | PCP ICV 1324-1 | |
| 8 | 18-FEB-2010 19:05 | 0218A009.d | 1 | PCP ICV 1702-3 | |
| 9 | 18-FEB-2010 19:41 | 0218A010.d | 1 | DRVBLK 021810 | |
| 10 | 18-FEB-2010 20:17 | 0218A011.d | 1 | PCPD | |
| 11 | 18-FEB-2010 20:37 | 0218A012.d | 1 | PCPA | |
| 12 | 18-FEB-2010 20:57 | 0218A013.d | 1 | PCPB | |
| 13 | 18-FEB-2010 21:17 | 0218A014.d | 1 | PCPC | |
| 14 | 18-FEB-2010 21:37 | 0218A015.d | 1 | PCPE | |
| 15 | 18-FEB-2010 21:56 | 0218A016.d | 1 | PCPF | |
| 16 | 18-FEB-2010 22:16 | 0218A017.d | 1 | PCP ICV 1324-1 | |
| 17 | 18-FEB-2010 22:36 | 0218A018.d | 1 | PCP ICV 1702-3 | |
| 18 | 18-FEB-2010 22:56 | 0218A019.d | 1 | DRVBLK 021810 | |
| 19 | 18-FEB-2010 23:16 | 0218A020.d | 1 | PCP CCAL | |
| 20 | 18-FEB-2010 23:35 | 0218A021.d | 1 | QJ18MBW1 | QJ18MBW1 |
| 21 | 18-FEB-2010 23:55 | 0218A022.d | 1 | QJ18LCSW1 | QJ18LCSW1 |
| 22 | 19-FEB-2010 00:15 | 0218A023.d | 1000 | QJ18A | SW 13# |
| 23 | 19-FEB-2010 00:35 | 0218A024.d | 1 | QJ18B | SW 2# |
| 24 | 19-FEB-2010 00:55 | 0218A025.d | 50 | QJ18C | SW 15# |
| 25 | 19-FEB-2010 01:15 | 0218A026.d | 1 | PCP | |
| 26 | 19-FEB-2010 01:34 | 0218A027.d | 1 | PCP CCAL | |
| 27 | 19-FEB-2010 01:54 | 0218A028.d | 1 | QJ36MBW1 | QJ36MBW1 |
| 28 | 19-FEB-2010 02:14 | 0218A029.d | 1 | QJ36LCSW1 | QJ36LCSW1 |
| 29 | 19-FEB-2010 02:34 | 0218A030.d | 1 | QJ36LCSW1 | QJ36LCSW1 |
| 30 | 19-FEB-2010 02:54 | 0218A031.d | 1 | QJ36A | MW-2 |
| 31 | 19-FEB-2010 03:13 | 0218A032.d | 1 | QJ36B | MW-3 |
| 32 | 19-FEB-2010 03:33 | 0218A033.d | 10 | QJ36C | MW-15 |
| 33 | 19-FEB-2010 03:53 | 0218A034.d | 1 | QJ36D | MW-16 |
| 34 | 19-FEB-2010 04:13 | 0218A035.d | 1 | QJ36E | MW-17 |
| 35 | 19-FEB-2010 04:33 | 0218A036.d | 1 | QJ36F | MW-18 |
| 36 | 19-FEB-2010 04:52 | 0218A037.d | 1 | QJ36G | MW-22 |
| 37 | 19-FEB-2010 05:12 | 0218A038.d | 1 | PCP | |
| 38 | 19-FEB-2010 05:32 | 0218A039.d | 1 | PCP CCAL | |
| 39 | 19-FEB-2010 05:52 | 0218A040.d | 40 | QJ36H | MW-23 |
| 40 | 19-FEB-2010 06:12 | 0218A041.d | 1 | QJ36I | MW-24 |
| 41 | 19-FEB-2010 06:32 | 0218A042.d | 10 | QJ36J | MW-25 |
| 42 | 19-FEB-2010 06:51 | 0218A043.d | 1 | QJ36K | MW-26 |
| 43 | 19-FEB-2010 07:11 | 0218A044.d | 1 | QJ36L | MW-27 |
| 44 | 19-FEB-2010 07:31 | 0218A045.d | 1 | QJ36M | MW-28 |
| 45 | 19-FEB-2010 07:51 | 0218A046.d | 1 | QJ36N | MW-29 |
| 46 | 19-FEB-2010 08:11 | 0218A047.d | 1 | QJ36O | MW-30 |
| 47 | 19-FEB-2010 08:30 | 0218A048.d | 1 | QJ36P | MW-31 |
| 48 | 19-FEB-2010 08:50 | 0218A049.d | 200 | QJ36Q | MW-32 |
| 49 | 19-FEB-2010 09:10 | 0218A050.d | 1 | PCP | |
| 50 | 19-FEB-2010 09:30 | 0218A051.d | 1 | PCP CCAL | |

AR 2/23/2010

Maintenance / Comments

Cleaned inlet, cleaned liner & clipped loop from pre-column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: penta chloro phenol Client ID: _____

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) **Other**

Parameter(s): PCP (pentachlorophenol) 2,4,6-Tribromophenol

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 02/18/10 Analysis Start: 02/18/10

Endrin/DDT Breakdown <15%? YES / NO **(NA)** Method Blank In Control? YES / NO **(NA)**
 ICal Meets RF & %RSD Criteria? **YES** / NO LCS/LCSD Recovery In Control? YES / NO
 CCal Meets RF & %RSD Criteria **YES** / NO Surrogate Recovery In Control? **YES** / NO
 Internal Standard Meets Criteria? YES / NO **(NA)** Special Analysis Criteria Met? YES / NO **(NA)**

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / **No**

Analyst Signature: [Signature] Date: 02/19/10

Reviewer's Signature: [Signature] Date: 2/19/10

Analytical Resources Inc.: Organics Instrument Log

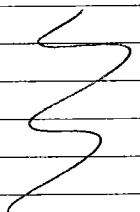
ECD1 Serial No.: 3410A39690

Date: 3/17/2010 Analysis: PCP Analyst: AR

GC Program: PCPFAST.M Column No: 150608/148146 Column Type: ZB5/ZB75

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: FPCP20100219.b Curve Date: 2/18/2010

| IS/SS | Ical/Ccal | LCS/ICV |
|---|--------------------------|---------|
|  | 1654-1 1663-2 | 1702-3 |
| | | 1324-1 |
| | | 1353-2 |

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100219.b/0317-1.b

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|----|---------------|---------------------|
| 1 | 17-MAR-2010 12:15 | 0317A004.d | 1 | PCP CCAL | |
| 2 | 17-MAR-2010 12:34 | 0317A005.d | 1 | QN21MBW1 | QN21MBW1 |
| 3 | 17-MAR-2010 12:54 | 0317A006.d | 1 | QN21LCSW1 | QN21LCSW1 |
| 4 | 17-MAR-2010 13:14 | 0317A007.d | 1 | QN21LCSW1 | QN21LCSW1 |
| 5 | 17-MAR-2010 13:34 | 0317A008.d | 1 | QN92A | BLAIR 3-15-10 |
| 6 | 17-MAR-2010 13:54 | 0317A009.d | 10 | QN92A | BLAIR 3-15-10 |
| 7 | 17-MAR-2010 14:14 | 0317A010.d | 1 | PCP | |
| 8 | 17-MAR-2010 14:34 | 0317A011.d | 1 | PCP CCAL | |
| 9 | 17-MAR-2010 14:54 | 0317A012.d | 1 | QN21A | CB31A031010COMP |
| 10 | 17-MAR-2010 15:14 | 0317A013.d | 1 | QN21AMS | CB31A031010COMP MS |
| 11 | 17-MAR-2010 15:34 | 0317A014.d | 1 | QN21AMSD | CB31A031010COMP MSD |
| 12 | 17-MAR-2010 15:54 | 0317A015.d | 1 | QN21B | CB4857031010COMP |
| 13 | 17-MAR-2010 16:14 | 0317A016.d | 1 | QN21C | CB1031010COMP |
| 14 | 17-MAR-2010 16:33 | 0317A017.d | 1 | QN21D | CB101031010COMP |
| 15 | 17-MAR-2010 16:53 | 0317A018.d | 1 | DRVBLK 031610 | |
| 16 | 17-MAR-2010 17:13 | 0317A019.d | 1 | PCP CCAL | |

AR-3/17/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: QN21 Client ID: Floyd-Snyder

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Chlorinated Phenols, Method 8041, SOP 412S

| | | | | | | |
|-------------|---|--------|--------|--------|-------|-------|
| Instrument: | FID-3A | FID-3B | FID-4A | FID-4B | FID-7 | FID-8 |
| | ECD-1 | ECD-3 | ECD-4 | ECD-5 | ECD-6 | ECD-7 |

Dates: Curve: 2/18/2010 Analysis Start: 3/17/2010

| | | | |
|-----------------------------------|--|--------------------------------|--|
| Endrin/DDT Breakdown <15%? | YES / NO / NA | Method Blank In Control? | YES / NO / NA |
| ICal Meets RF & %RSD Criteria? | YES / NO | LCS/LCSD Recovery In Control? | YES / NO / NA ^① |
| CCal Meets RF & %RSD Criteria | YES / NO | Surrogate Recovery In Control? | YES / NO |
| Internal Standard Meets Criteria? | YES / NO / NA | Special Analysis Criteria Met? | YES / NO / NA |

VDP Requested

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- The surrogate spiking volume is doubled when entering into LIMS, in the LCS/LCSD/MS&MSD; this is because the spike also contains surrogate and when both are spiked the concentration is double what it would be when only the surrogate is spiked.

Additional Details on Reverse: Yes / No No

Analyst Signature: Date: 3/17/2010

Reviewer's Signature: Date: 3/18/10

Metals Analysis
QC Summary Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd-Snider

PROJECT: Lora Lakes Apartment

SDG: QN21

| CLIENT ID | ARI ID | ARI LIMS ID | REPREP |
|------------------|------------|-------------|--------|
| CB31A031010COMP | QN21A | 10-5974 | |
| CB31A031010COMP | QN21ADUP | 10-5974 | |
| CB31A031010COMPS | QN21ASPK | 10-5974 | |
| CB4857031010COMP | QN21B | 10-5975 | |
| PBW | QN21MB1 | 10-5975 | |
| LCSW | QN21MB1SPK | 10-5975 | |
| CB1031010COMP | QN21C | 10-5976 | |
| CB101031010COMP | QN21D | 10-5977 | |
| CB31A031010COMP | QN21E | 10-5978 | |
| CB31A031010COMP | QN21EDUP | 10-5978 | |
| CB31A031010COMPS | QN21ESPK | 10-5978 | |
| CB4857031010COMP | QN21F | 10-5979 | |
| PBW | QN21MB2 | 10-5979 | |
| LCSW | QN21MB2SPK | 10-5979 | |
| CB1031010COMP | QN21G | 10-5980 | |
| CB101031010COMP | QN21H | 10-5981 | |

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:

A handwritten signature in black ink, appearing to read "Jay Kuhn", with the date "4/15/10" written below it.

Name: Jay Kuhn

Date:

Title: Inorganics Director

COVER PAGE

QN21 : 00317

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

**Sample ID: CB31A031010COMP
DUPLICATE**

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|-------|---------------|---|
| Arsenic | 200.8 | 0.7 | 0.8 | 13.3% | +/- 0.2 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.740 | 26.5 | 25.0 | 103% | |

Reported in µg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: CB31A031010COMP
MATRIX SPIKE

Lab Sample ID: QN21E

LIMS ID: 10-5978

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Arsenic | 200.8 | 0.480 | 32.0 | 25.0 | 126% | N |

Reported in µg/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: CB31A031010COMP
DUPLICATE**


Lab Sample ID: QN21E

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5978

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|------|---------------|---|
| Arsenic | 200.8 | 0.5 | 0.5 | 0.0% | +/- 0.2 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL


Lab Sample ID: QN21LCS

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5975

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|-----------------|-------------|-------------|------------|---|
| Arsenic | 200.8 | 25.4 | 25.0 | 102% | |

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Sample ID: LAB CONTROL

Page 1 of 1


Lab Sample ID: QN21LCS

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5979

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|----------------|------------------------|--------------------|--------------------|-------------------|----------|
| Arsenic | 200.8 | 25.6 | 25.0 | 102% | |

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1


Lab Sample ID: QN21MB

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5975

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Sample ID: METHOD BLANK

Page 1 of 1


Lab Sample ID: QN21MB

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5979

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 04/05/10

Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | M | RUN | ICVTV | ICV | %R | CCVTV | CCV1 | %R | CCV2 | %R | CCV3 | %R | CCV4 | %R | CCV5 | %R |
|---------|----|-----|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| Arsenic | AS | PMS | MS033181 | 50.0 | 50.26 | 100.5 | 50.0 | 50.40 | 100.8 | 50.22 | 100.4 | 49.89 | 99.8 | 50.05 | 100.1 | 49.96 | 99.9 |

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

QN21 : 00326

Calibration Verification



CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21

UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV6 | %R | CCV7 | %R | CCV8 | %R | CCV9 | %R | CCV10 | %R | CCV11 | %R |
|---------|----|-----|----------|-------|-------|------|-------|-------|-------|------|-------|------|-------|------|-------|------|
| Arsenic | AS | PMS | MS033181 | 50.0 | 49.69 | 99.4 | 49.99 | 100.0 | 49.24 | 98.5 | 49.43 | 98.9 | 49.76 | 99.5 | 49.64 | 99.3 |

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

QN21 : 00327

Calibration Verification

CLIENT: Floyd-Snider

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV12 | %R | CCV13 | %R | CCV14 | %R | CCV15 | %R | CCV16 | %R | CCV17 | %R |
|---------|----|-----|----------|-------|-------|------|-------|----|-------|----|-------|----|-------|----|-------|----|
| Arsenic | AS | PMS | MS033181 | 50.0 | 49.09 | 98.2 | | | | | | | | | | |

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

QN21 : 00328

Calibration Verification



CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21

UNITS: ug/L

| ANALYTE | EL | M | RUN | ICVTV | ICV | %R | CCVTV | CCV1 | %R | CCV2 | %R | CCV3 | %R | CCV4 | %R | CCV5 | %R |
|---------|----|-----|----------|-------|-------|------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| Arsenic | AS | PMS | MS040181 | 50.0 | 48.94 | 97.9 | 50.0 | 49.94 | 99.9 | 49.85 | 99.7 | 50.34 | 100.7 | 50.40 | 100.8 | 50.01 | 100.0 |

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

QN21 : 00320

Calibration Verification

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



ANALYTICAL
RESOURCES
INCORPORATED

UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV6 | %R | CCV7 | %R | CCV8 | %R | CCV9 | %R | CCV10 | %R | CCV11 | %R |
|---------|----|-----|----------|-------|-------|-------|------|----|------|----|------|----|-------|----|-------|----|
| Arsenic | AS | PMS | MS040181 | 50.0 | 50.25 | 100.5 | | | | | | | | | | |

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

QN21 : 00330

CRDL Standard

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



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 | MS033181 | 0.2 | | 0.20 | 100.0 | | | | | | | | | | |
| Arsenic | AS | PMS | MS040181 | 0.2 | | 0.19 | 95.0 | | | | | | | | | | |

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | ICB | C | CCB1 | C | CCB2 | C | CCB3 | C | CCB4 | C | CCB5 | C |
|---------|----|------|----------|------|-----|-----|---|------|---|------|---|------|---|------|---|------|---|
| Arsenic | AS | PMS | MS033181 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |

QN21 : 00332

Calibration Blanks

CLIENT: Floyd-Snider

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB6 | CCB7 | CCB8 | CCB9 | CCB10 | CCB11 | C |
|---------|----|------|----------|------|-----|------|------|------|------|-------|-------|---|
| Arsenic | AS | PMS | MS033181 | 10.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | U |

QN21 : 00333

Calibration Blanks

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB12 | CCB13 | CCB14 | CCB15 | CCB16 | CCB17 | C |
|---------|----|------|----------|------|-----|-------|-------|-------|-------|-------|-------|---|
| Arsenic | AS | PMS | MS033181 | 10.0 | 0.2 | 0.2 | U | | | | | |

QN21 : 00334

Calibration Blanks

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | ICB | C | CCB1 | C | CCB2 | C | CCB3 | C | CCB4 | C | CCB5 | C |
|---------|----|------|----------|------|-----|-----|---|------|---|------|---|------|---|------|---|------|---|
| Arsenic | AS | PMS | MS040181 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |

QN21 : 00335

Calibration Blanks

CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

SDG: QN21



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB6 | CCB7 | CCB8 | CCB9 | CCB10 | CCB11 | C |
|---------|----|------|----------|------|-----|------|------|------|------|-------|-------|---|
| Arsenic | AS | PMS | MS040181 | 10.0 | 0.2 | 0.2 | U | | | | | |

ICP Interference Check Sample



CLIENT: Floyd-Snider

ICS SOURCE: I.V.

PROJECT: Lora Lakes Apartment

RUNID: MS033181

SDG: QN21

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

| ANALYTE | ICSA IV | ICSAB IV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|-------|--------|-------|-------|--------|----|-------|--------|----|
| Arsenic | | 20 | 0.0 | 20.1 | 100.5 | | | | | | |
| Cadmium | | 20 | 0.1 | 20.5 | 102.5 | | | | | | |
| Chromium | | 20 | 0.5 | 20.7 | 103.5 | | | | | | |
| Cobalt | | 20 | 0.0 | 20.4 | 102.0 | | | | | | |
| Copper | | 20 | 0.4 | 20.1 | 100.5 | | | | | | |
| Lead | | | 0.1 | 0.1 | | | | | | | |
| Manganese | | 20 | 0.2 | 20.3 | 101.5 | | | | | | |
| Molybdenum | 400 | 400 | 451.4 | 445.0 | 111.3 | | | | | | |
| Nickel | | 20 | 0.4 | 20.2 | 101.0 | | | | | | |
| Silver | | 20 | 0.0 | 18.6 | 93.0 | | | | | | |
| Vanadium | | | 0.0 | -0.4 | | | | | | | |
| Zinc | | 20 | 1.0 | 20.5 | 102.5 | | | | | | |

QN21 : 00337

ICP Interference Check Sample



CLIENT: Floyd-Snyder

ICS SOURCE: I.V.

PROJECT: Lora Lakes Apartment

RUNID: MS040181

SDG: QN21

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|-------|--------|-------|-------|--------|----|-------|--------|----|
| Arsenic | | 20 | 0.0 | 20.3 | 101.5 | | | | | | |
| Barium | | | 0.0 | 0.1 | | | | | | | |
| Cadmium | | 20 | 0.1 | 20.6 | 103.0 | | | | | | |
| Chromium | | 20 | 0.5 | 21.3 | 106.5 | | | | | | |
| Cobalt | | 20 | 0.0 | 20.7 | 103.5 | | | | | | |
| Copper | | 20 | 0.4 | 20.9 | 104.5 | | | | | | |
| Lead | | | 0.0 | 0.1 | | | | | | | |
| Manganese | | 20 | 0.1 | 20.6 | 103.0 | | | | | | |
| Molybdenum | 400 | 400 | 469.9 | 480.7 | 120.2 | | | | | | |
| Nickel | | 20 | 0.4 | 21.0 | 105.0 | | | | | | |
| Silver | | 20 | 0.0 | 19.0 | 95.0 | | | | | | |
| Vanadium | | | 0.0 | -0.6 | | | | | | | |
| Zinc | | 20 | 1.1 | 21.1 | 105.5 | | | | | | |

QN21 : 00338

IDLs and ICP Linear Ranges



CLIENT: Floyd-Snider

PROJECT: Lora Lakes Apartment

SDG: QN21

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 | FE ELAN 6000 MS | 0.00 | | 10 | 0.2 | 3/1/2008 | | |

Preparation Log



CLIENT: Floyd-Snider

ANALYSIS METHOD: PMS

PROJECT: Lora Lakes Apartment

ARI PREP CODE: REN

SDG: QN21

PREPDATE: 3/12/2010

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|------------------|------------|----------|---------------------|-------------------|
| CB31A031010COMP | QN21A | 0.000 | 50.0 | 25.0 |
| CB31A031010COMP | QN21ADUP | 0.000 | 50.0 | 25.0 |
| CB31A031010COMP | QN21ASPK | 0.000 | 50.0 | 25.0 |
| CB4857031010COMP | QN21B | 0.000 | 50.0 | 25.0 |
| CB1031010COMP | QN21C | 0.000 | 50.0 | 25.0 |
| CB101031010COMP | QN21D | 0.000 | 50.0 | 25.0 |
| CB31A031010COMP | QN21E | 0.000 | 50.0 | 25.0 |
| CB31A031010COMP | QN21EDUP | 0.000 | 50.0 | 25.0 |
| CB31A031010COMP | QN21ESPK | 0.000 | 50.0 | 25.0 |
| CB4857031010COMP | QN21F | 0.000 | 50.0 | 25.0 |
| CB1031010COMP | QN21G | 0.000 | 50.0 | 25.0 |
| CB101031010COMP | QN21H | 0.000 | 50.0 | 25.0 |
| PBW | QN21MB1 | 0.000 | 50.0 | 25.0 |
| LCSW | QN21MB1SPK | 0.000 | 50.0 | 25.0 |
| PBW | QN21MB2 | 0.000 | 50.0 | 25.0 |
| LCSW | QN21MB2SPK | 0.000 | 50.0 | 25.0 |

Analysis Run Log



CLIENT: Floyd-Snider
 PROJECT: Lora Lakes Apartment
 SDG: QN21
 INSTRUMENT ID: PE ELAN 6000 MS
 RUNID: MS033181
 METHOD: PMS
 START DATE: 3/31/2010
 END DATE: 4/1/2010

| 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 | | | |
|------------------|------------|------|-------|-------|----|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|---|
| CCB | CCB4 | | 1.00 | 16030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S0 | S0 | | 1.00 | 16110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | MCCV5 | | 1.00 | 16180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | CCB5 | | 1.00 | 16270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW | QN21MB1 | | 2.00 | 16420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW | QN21MB2 | | 2.00 | 16490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| LCSW | QN21MB2SPK | | 2.00 | 16560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| LCSW | QN21MB1SPK | | 2.00 | 17030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZZ | QJ17C | | 5.00 | 17100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CB31A031010COMP | QN21ADUP | | 2.00 | 17160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CB31A031010COMP | QN21A | | 2.00 | 17230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CB31A031010COMPS | QN21ASEPK | | 2.00 | 17300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CB4857031010COMP | QN21B | | 2.00 | 17370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CB1031010COMP | QN21C | | 2.00 | 17440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | MCCV6 | | 1.00 | 17510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | CCB6 | | 1.00 | 17580 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S0 | S0 | | 1.00 | 18110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | MCCV7 | | 1.00 | 18180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | CCB7 | | 1.00 | 18260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | ZZZZZZ | | 10.00 | 18330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QK39B | | 2.00 | 18400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QK39BDUP | | 2.00 | 18480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QK39BSPK | | 2.00 | 18550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QK56B | | 2.00 | 19020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QK56D | | 2.00 | 19100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QL06E | | 2.00 | 19170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QL06F | | 2.00 | 19240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QJ39D | | 10.00 | 19310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QJ39E | | 10.00 | 19370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | MCCV8 | | 1.00 | 19440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | CCB8 | | 1.00 | 19520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | ZZZZZZ | | 50.00 | 19590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QJ39B | | 10.00 | 20060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QJ39BDUP | | 10.00 | 20130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | QJ39BSPK | | 10.00 | 20200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Analysis Run Log



CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 3/31/2010

SDG: QN21

RUNID: MS033181

METHOD: PMS

END DATE: 4/1/2010

| 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 | QJ39F | 10.00 | 20270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71C | 5.00 | 20350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71D | 5.00 | 20420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71E | 5.00 | 20490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK01B | 5.00 | 20560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK01C | 5.00 | 21030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV9 | 1.00 | 21090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB9 | 1.00 | 21170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71B-L | 10.00 | 21240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71B | 2.00 | 21310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71BPOST | 2.00 | 21380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71B-L | 25.00 | 21460 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71B | 5.00 | 21530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71BDUP | 5.00 | 22000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QJ71BSPK | 5.00 | 22070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK01D | 5.00 | 22140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK01E | 5.00 | 22210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15B | 5.00 | 22270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV10 | 1.00 | 22340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB10 | 1.00 | 22420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15C | 5.00 | 22490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15D | 5.00 | 22560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15E | 5.00 | 23030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15F | 5.00 | 23110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15G | 5.00 | 23180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15H | 5.00 | 23250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QK15I | 5.00 | 23320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB101031010COMP | QN21D | 2.00 | 23390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB4857031010COMP | QN21F | 2.00 | 23460 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB1031010COMP | QN21G | 2.00 | 23520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV11 | 1.00 | 23590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB11 | 1.00 | 00070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QN39MB | 2.00 | 00140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QN39MBSPK | 2.00 | 00210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB31A031010COMP | QN21EDUP | 2.00 | 00280 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Analysis Run Log



CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 3/31/2010

SDG: QN21

RUNID: MS033181

METHOD: PMS

END DATE: 4/1/2010

| CLIENT ID | ARI ID | DIL. | TIME | %R | AG | AL | AS | B | BA | BE | CA | CD | CO | CR | CU | FE | HG | K | MG | MV | MO | NA | NI | PB | SB | SE | SI | SN | TI | TL | U | V | ZN | | | |
|------------------|-----------|------|------------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|--|--|--|
| CB31A031010COMP | QN21E | | 2.00 00350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB31A031010COMPS | QN21ESEPK | | 2.00 00430 | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CB101031010COMP | QN21H | | 2.00 00500 | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | QN39A | | 2.00 00570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | QN39B | | 2.00 01040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | QN39C | | 2.00 01110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | Q034A | | 2.00 01170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV12 | | 1.00 01240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | CCB12 | | 1.00 01320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QN21 : 00344

Analysis Run Log



CLIENT: Floyd-Snyder

PROJECT: Lora Lakes Apartment

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 4/1/2010

SDG: QN21

RUNID: MS040181

METHOD: PMS

END DATE: 4/1/2010

| 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 | 11390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S1 | S1 | 1.00 | 11470 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S2 | S2 | 1.00 | 11550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S3 | S3 | 1.00 | 12020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S4 | S4 | 1.00 | 12100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZ | Rinse Sampl | 1.00 | 12180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S0 | S0 | 1.00 | 12250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZ | ZZZZZ | 1.00 | 12360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICV | MICV | 1.00 | 12430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICB | ICB | 1.00 | 12510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S0 | S0 | 1.00 | 12590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | MCCV1 | 1.00 | 13070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | CCB1 | 1.00 | 13140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CRI | MCRI | 1.00 | 13220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICSA | ICSAI | 1.00 | 13290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICSAB | ICSABI | 1.00 | 13360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZ | IC | 1.00 | 13440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZ | LR200 | 1.00 | 13520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | LR300 | 1.00 | 14000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | MCCV2 | 1.00 | 14070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | CCB2 | 1.00 | 14150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK39B-L | 25.00 | 14220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK39B | 5.00 | 14290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK39BDUP | 5.00 | 14360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK39BSPK | 5.00 | 14430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK56B | 5.00 | 14490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QK56D | 5.00 | 14560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QL06E | 5.00 | 15030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QL06F | 5.00 | 15100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QJ71D | 5.00 | 15170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZ | QJ39F | 10.00 | 15240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | MCCV3 | 1.00 | 15310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | CCB3 | 1.00 | 15380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| S0 | S0 | 1.00 | 15450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | MCCV4 | 1.00 | 15530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Metals Analysis
Sample Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: CB31A031010COMP
SAMPLE

Lab Sample ID: QN21A

LIMS ID: 10-5974

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: CB4857031010COMP
SAMPLE

Lab Sample ID: QN21B

LIMS ID: 10-5975

Matrix: Water

Data Release Authorized 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

**Sample ID: CB1031010COMP
SAMPLE**

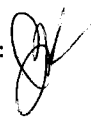
Lab Sample ID: QN21C

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5976

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 1.0 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

**Sample ID: CB101031010COMP
SAMPLE**

Lab Sample ID: QN21D

LIMS ID: 10-5977

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.7 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

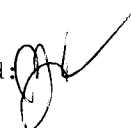
Page 1 of 1

Sample ID: CB31A031010COMP
SAMPLE

Lab Sample ID: QN21E

LIMS ID: 10-5978

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 04/01/10 | 7440-38-2 | Arsenic | 0.2 | 0.5 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

**Sample ID: CB4857031010COMP
SAMPLE**

Lab Sample ID: QN21F

LIMS ID: 10-5979

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.4 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

**Sample ID: CB1031010COMP
SAMPLE**

Lab Sample ID: QN21G

LIMS ID: 10-5980

Matrix: Water

Data Release Authorized: 

Reported: 04/05/10

QC Report No: QN21-Floyd-Snider

Project: Lora Lakes Apartments

Date Sampled: 03/10/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.8 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

**Sample ID: CB101031010COMP
SAMPLE**

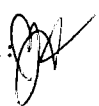
Lab Sample ID: QN21H

QC Report No: QN21-Floyd-Snider

LIMS ID: 10-5981

Project: Lora Lakes Apartments

Matrix: Water

Data Release Authorized: 

Date Sampled: 03/10/10

Reported: 04/05/10

Date Received: 03/10/10

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 03/12/10 | 200.8 | 03/31/10 | 7440-38-2 | Arsenic | 0.2 | 0.5 | |

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.31.10

Analyst: BW

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------|
| | | std 0 | | | 2690-9 |
| | | ↓ 1 | | | 2692-3 |
| | | ↓ 2 | | | ↓ -4 |
| | | ↓ 3 | | | 2694-13 |
| | | ↓ 4 | | | 2693-2 |
| | | rinse sample | | | |
| | | ICV | | | 2677-1 |
| | | ICB | | | |
| | | CCV1 | | | |
| | | CCB1 | | | |
| 2 | | 222222 | | | |
| ↓ | | 222222 | | | |
| | | 222222 | | | |
| | | std 0 | | | |
| | | CCV2 | | | |
| | | CCB2 | | | |
| | | low check | | | |
| | | ICSA | | | |
| | | ICBAB | | | |
| | | LC | | | |
| | | LR200 | | | |
| | | LR300 | | | |
| | | CCV3 | | | |
| | | CCB3 | | | |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3/31/10

Analyst: AW

Page: 2 of 6

All corrections made by analyst unless otherwise noted.

AW 4/1/10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|--|
| | | 222222 | REN | 25 | |
| | ✓ | QJ39 B | | 5 | Sc high |
| | ↓ | Bdep | | | ↓ |
| | ↓ | B5pk | | | |
| | ↓ | D | | | Sc high |
| | ↓ | E | | | ↓ |
| | ↓ | F | | | ↓ |
| | ↓ | QJ17 C | | | As Clout |
| | ↓ | QJ71 C | | | Cr Schigh |
| | ↓ | D | | | ↓ |
| | | CCV4 | | | Ge, In high, ^{62Ni, Be} high, Tl Th U low |
| | | CCB4 | | | ↓ V2 ^{53Cr} ^{62Ni} high |
| | | Std O | | | |
| | | CCV5 | | | 2695-2 Be high Tl Th U low |
| | | CCB5 | | | ^{62Ni} low |
| | | QN21 MB1 | REN | 2 | |
| | | MB2 | | | |
| | | MB2dep | | | |
| | | MB2pk | | | |
| | | QJ17 C | | 5 | As |
| | | QN21 Adep | | 2 | |
| | | A | | | |
| | | Adep | | | |
| | | B | | | |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3/31/10

Analyst: RAW

Page: 23 of 4

All corrections made by analyst unless otherwise noted. RAW 4/1/10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|-------------------|-----------|----------|--------------------|
| | | QJ21 C | RAW | 2 | |
| | | CCV6 | | | Tl Th U low |
| | | CCBL | | | 62Ni low |
| | | std 0 | | | |
| | | CCV7 | | | Tl Th U low |
| | | CCB7 | | | |
| 2 | ✓ | QJ39 B | RAW | 10 | Cr |
| | | B | | 2 | Sc high |
| | | Bdup | | | |
| | | Bstd | | | |
| | | QJ50 B | | | |
| | | D | | | |
| | | QJ06 E | | | |
| | | F | | | |
| | | QJ39 D | | 10 | Cr about |
| | | E | | | |
| | | CCV8 | | | Li high |
| | | CCB8 | | | ↓ V2 53Cr 62Ni low |
| 2 | ✓ | QJ39 B | RAW | 50 | Cr about |
| | | B | | 10 | |
| | | Bdup | | | |
| | | Bstd | | | |
| | | F | | | |
| | | QJ71 C | | 5 | Cr |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.31.10

Analyst: AW

Page: 34 of 6

All corrections made by analyst unless otherwise noted. AW 4.1.10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-------------------------------------|
| | ✓ | QJ71 D | REW | 5 | CB out |
| | | ↓ E | ↓ | ↓ | Cr |
| | ✓ | QK01 B | ↓ | ↓ | CB out |
| | | ↓ C | ↓ | ↓ | Cr |
| | | CCV9 | | | Li high ⁶² Ni high C low |
| | | CCB9 | | | ↓ ↓ |
| | | QJ71 B-L | REW | 10 ✓ | Ag |
| | | ↓ B | ↓ | ↓ | ↓ |
| | | ↓ Bpost | ↓ | ↓ ✓ | ↓ 0.10 ml spl#1 |
| | | ↓ BL | ↓ | 25 ✓ | Cr |
| | | ↓ B | ↓ | 5 ✓ | ↓ |
| | | ↓ Bdep | ↓ | ↓ ✓ | ↓ |
| | | ↓ Bsp | ↓ | ↓ ✓ | ↓ |
| | | QK01 D | ↓ | ↓ | ↓ |
| | | ↓ E | ↓ | ↓ | ↓ |
| | | QK15 B | ↓ | ↓ | ↓ |
| | | CCV10 | | | Li high |
| | | CCB10 | | | ↓ √ 2 53 Cr ⁶² Ni low |
| | ✓ | QK15 C | REW | 5 | CB out |
| | ✓ | ↓ D | ↓ | ↓ | ↓ |
| | | ↓ E | ↓ | ↓ | Cr |
| | | ↓ F | ↓ | ↓ | ↓ |
| | ✓ | ↓ G | ↓ | ↓ | Sc high |
| | ✓ | ↓ H | ↓ | ↓ | CB out |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.31.10

Analyst: RAW

Page: 5 of 6

All corrections made by analyst unless otherwise noted.

RAW 4/1/10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|---------------------|
| | ✓ | QN15 I | REW | 5 | CB out |
| | | QN21 D | ↓ | 2 | |
| | | ↓ F | ↓ | ↓ | |
| | | ↓ G | ↓ | ↓ | |
| | | CCV11 | | | Li high |
| | | CCB11 | | | ↓ V2 53Cr 62Ni low |
| | | QN39 MB | REW | 2 | |
| | | ↓ MBspk | ↓ | ↓ | ✓ |
| | ✓ | QN21 Edsp | ↓ | ↓ | ✓ |
| | | ↓ E | ↓ | ↓ | rean w/post spike |
| | | ↓ Espk | ↓ | ↓ | AS 126% |
| | | ↓ H | ↓ | ↓ | |
| | | QN39 A | ↓ | ↓ | |
| | | ↓ B | ↓ | ↓ | |
| | | ↓ C | ↓ | ↓ | |
| | | Q034 A | ↓ | ↓ | |
| | | CCV12 | | | Li high |
| | | CCB12 | | | ↓ V2 53Cr 62Ni low |
| | | QN68 MB | REW | 2 | |
| | | Q031 MB | ↓ | ↓ | bro. 7 Cu 2 Zn 5-NR |
| | | Q034 MBT | ↓ | ↓ | |
| | | ↓ MB1spk | ↓ | ↓ | ✓ |
| | | Q031 MBspk | ↓ | ↓ | ✓ |
| | | QN68 MBspk | ↓ | ↓ | ✓ |

end package

[Signature]
4/1/10

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 3.31.10

| | Analyst | Peer | Comment |
|---|---------------|---------------|----------------|
| Logbook: | <i>AW 4/1</i> | <i>HK 4/1</i> | |
| Analyst, Date, Method info | / | / | |
| Sample ID's | / | / | |
| Standard/QC solution ID's recorded | / | / | |
| Prep codes | / | / | |
| Dilution factors | / | / | |
| Crossouts/Corrections/Deletions | / | / | |
| Calibration: | | | |
| Blank & Standard intensities | / | / | |
| Standard deviations | / | / | |
| Curve fit | / | / | |
| Calibration Verification: | | | |
| ICV/CCV | / | / | <i>see log</i> |
| ICB/CCB | / | / | <i>↓</i> |
| Samples: | | | |
| RSD's & SD's | / | / | |
| Internal Standards | / | / | <i>see log</i> |
| Carry-over | / | / | |
| Method QC: | | | |
| CRI/CRA | / | / | |
| ICSA/ICSAB | / | / | |
| Post Spikes/Serial Dilutions | / | / | |
| Analytic Spikes | / | / | |
| Matrix QC: | | | |
| SRM/LCS | / | / | |
| Matrix Spikes | / | / | |
| Matrix Duplicates | / | / | |
| Method Blanks | / | / | |
| Data Distribution: | | | |
| Requested elements/isotope identified | / | / | |
| Correct samples identified for distribution | / | / | |
| Raw data match distributed data | / | / | |
| Data filename correct | / | / | |
| Necessary Analysts Notes and CAF's | / | / | <i>Q371</i> |

Instrument Tuning Report

1st

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.026 | 2029 | 2169 | 0.698 | |
| Mg | 23.985 | 23.929 | 5641 | 2282 | 0.714 | |
| Co | 58.933 | 58.929 | 14150 | 2555 | 0.722 | |
| In | 114.904 | 114.878 | 27759 | 3007 | 0.701 | |
| Pb | 207.977 | 207.976 | 50416 | 3777 | 0.696 | |

Instrument Tuning Report

2nd

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.028 ✓ | 2032 | 2169 | 0.698 | |
| Mg | 23.985 | 24.029 ✓ | 5651 | 2282 | 0.707 | |
| Co | 58.933 | 58.929 ✓ | 14148 | 2555 | 0.733 — | |
| In | 114.904 | 114.928 ✓ | 27764 | 3007 | 0.695 | |
| Pb | 207.977 | 207.976 ✓ | 50415 | 3777 | 0.696 | |

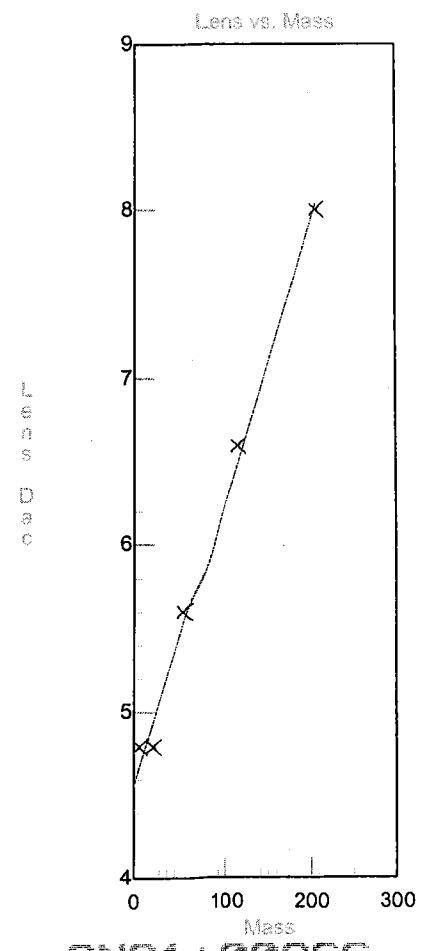
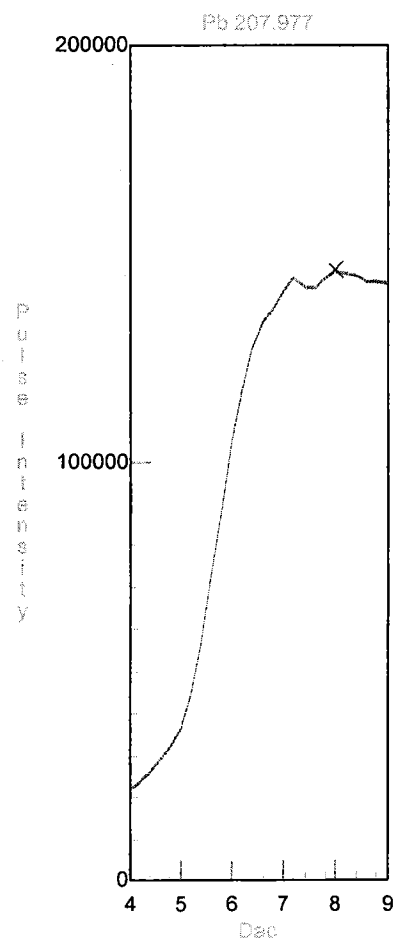
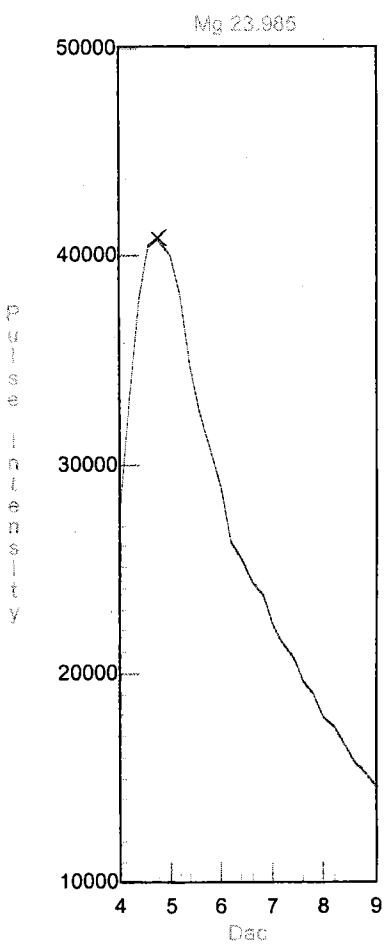
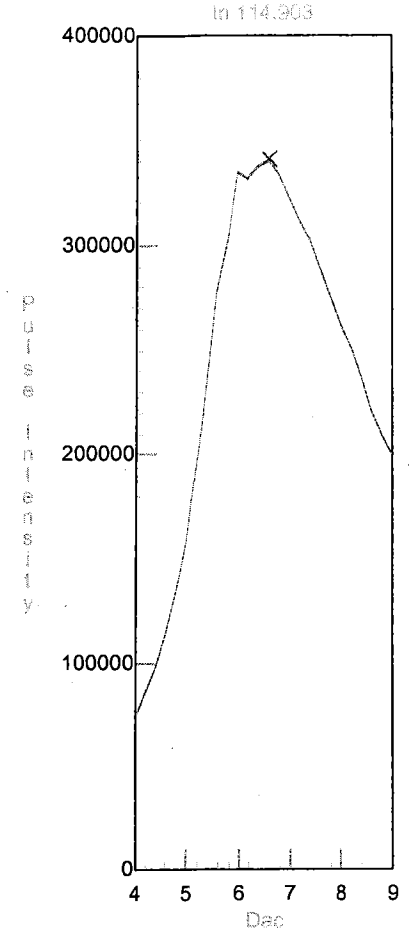
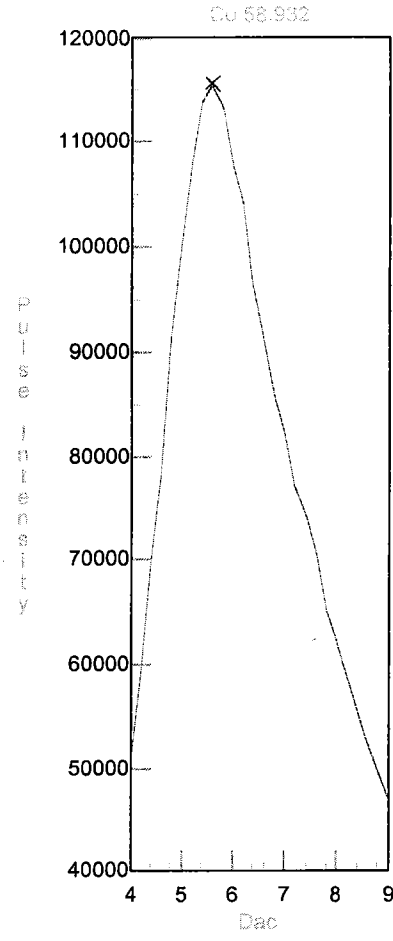
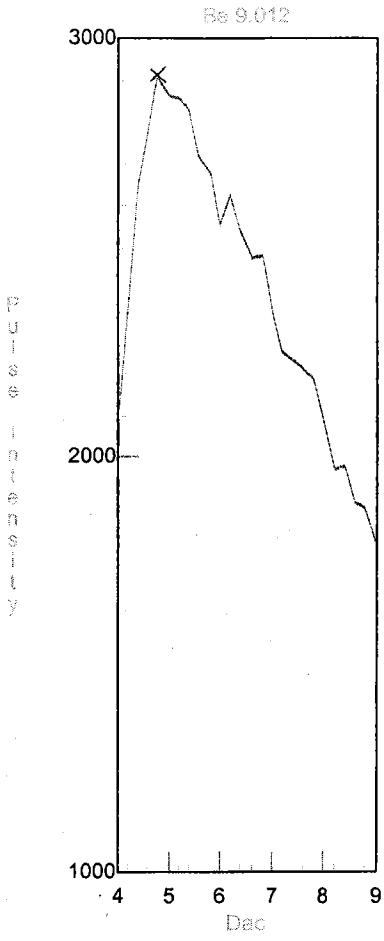
Instrument Tuning Report

3rd

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|-------------|-----------------|-------------|
| Be | 9.012 | 9.028 | 2032 | 2169 | 0.697 | |
| Mg | 23.985 | 24.029 | 5651 | 2282 | 0.711 | |
| Co | 58.933 | 58.929 | 14148 | <u>2558</u> | 0.712 | |
| In | 114.904 | 114.928 | 27764 | 3007 | 0.692 | |
| Pb | 207.977 | 207.976 | 50415 | 3777 | 0.696 | |

3.31.10



Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 31, 2010 11:21:45

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.6657

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

neb 0.96

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 42027.119 | 322.543 | 0.767 |
| In | 115 | 339208.450 | 692.719 | 0.204 |
| Pb | 208 | 146271.151 | 1003.875 | 0.686 |
| [> Ba | 138 | 227844.296 | 571.041 | 0.251 |
| [Ba++ | 69 | 0.014 | 0.000 | 1.961 |
| [> Ce | 140 | 274427.600 | 2784.128 | 1.015 |
| [CeO | 156 | 0.019 | 0.001 | 3.143 |
| Bkgd | 220 | 7.501 | 2.932 | 39.087 |

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 31, 2010 11:23:12

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.6658

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

neb 0.97

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 43856.160 | 304.197 | 0.694 |
| In | 115 | 366077.052 | 2057.832 | 0.562 |
| Pb | 208 | 156808.122 | 382.455 | 0.244 |
| [> Ba | 138 | 241982.454 | 1207.674 | 0.499 |
| [Ba++ | 69 | 0.014 | 0.000 | 2.734 |
| [> Ce | 140 | 292533.722 | 867.215 | 0.296 |
| [CeO | 156 | 0.020 | 0.000 | 1.132 |
| Bkgd | 220 | 6.751 | 2.739 | 40.572 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 11:39:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | | 268064 | 0 |
| [| Be | 9 | | ug/L | | | | 5 | 24 |
| | C | 13 | | mg/L | | | | 6464 | 1 |
| | Cl | 37 | | mg/L | | | | 3388447 | 0 |
| > | Sc | 45 | | ug/L | | | | 216466 | 0 |
| | V-1 | 51 | | ug/L | | | | 1181 | 24 |
| | V | 51 | | ug/L | | | | 6314 | 5 |
| | Cr | 52 | | ug/L | | | | 4888 | 0 |
| | Cr | 53 | | ug/L | | | | 2193 | 2 |
| | Mn | 55 | | ug/L | | | | 635 | 5 |
| [| Co | 59 | | ug/L | | | | 36 | 27 |
| > | Ge | 72 | | ug/L | | | | 297443 | 1 |
| | Ni | 60 | | ug/L | | | | 45 | 7 |
| | Ni | 62 | | ug/L | | | | 50 | 18 |
| | Cu | 63 | | ug/L | | | | 205 | 9 |
| | Cu | 65 | | ug/L | | | | 115 | 3 |
| | Zn | 66 | | ug/L | | | | 205 | 4 |
| | Zn | 67 | | ug/L | | | | 171 | 5 |
| | Zn | 68 | | ug/L | | | | 5528 | 0 |
| | As-1 | 75 | | ug/L | | | | 398 | 5 |
| | As | 75 | | ug/L | | | | 8296 | 0 |
| | Se | 82 | | ug/L | | | | -4 | 193 |
| | Se | 78 | | ug/L | | | | 8433 | 0 |
| [| Mo | 98 | | ug/L | | | | 2471 | 21 |
| | Y | 89 | | ug/L | | | | 245035 | 1 |
| | Kr | 83 | | ug/L | | | | 227 | 5 |
| > | In | 115 | | ug/L | | | | 308955 | 0 |
| | Ag | 107 | | ug/L | | | | 37 | 12 |
| | Cd | 111 | | ug/L | | | | 138 | 8 |
| | Cd | 114 | | ug/L | | | | 30 | 26 |
| | Sb | 121 | | ug/L | | | | 25 | 8 |
| | Sb | 123 | | ug/L | | | | 26 | 5 |
| | Ba | 135 | | ug/L | | | | 14 | 27 |
| [| Ba | 137 | | ug/L | | | | 22 | 14 |
| > | Tb | 159 | | ug/L | | | | 304039 | 1 |
| | Tl | 205 | | ug/L | | | | 134 | 4 |
| | Pb | 208 | | ug/L | | | | 498 | 5 |
| | Bi | 209 | | ug/L | | | | 241074 | 0 |
| | Th | 232 | | ug/L | | | | 68 | 16 |
| [| U | 238 | | ug/L | | | | 25 | 30 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 11:47:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 278753 | 0 |
| [Be | 9 | 10.000 | ug/L | 0.247 | 2 | 5 | 3699 | 1 |
| C | 13 | | mg/L | | | 6464 | 5527 | 2 |
| [Cl | 37 | | mg/L | | | 3388447 | 3285290 | 0 |
| > Sc | 45 | | ug/L | | | 216466 | 213507 | 0 |
| [V-1 | 51 | 10.000 | ug/L | 0.163 | 1 | 1181 | 96303 | 1 |
| V | 51 | 10.000 | ug/L | 0.102 | 1 | 6314 | 103197 | 1 |
| [Cr | 52 | 10.000 | ug/L | 0.071 | 0 | 4888 | 88916 | 1 |
| Cr | 53 | 10.000 | ug/L | 0.127 | 1 | 2193 | 12252 | 0 |
| [Mn | 55 | 10.000 | ug/L | 0.066 | 0 | 635 | 140377 | 0 |
| [Co | 59 | 10.000 | ug/L | 0.060 | 0 | 36 | 109389 | 0 |
| > Ge | 72 | | ug/L | | | 297443 | 292494 | 0 |
| [Ni | 60 | 10.000 | ug/L | 0.097 | 0 | 45 | 23721 | 0 |
| Ni | 62 | 10.000 | ug/L | 0.474 | 4 | 50 | 3622 | 4 |
| [Cu | 63 | 10.000 | ug/L | 0.105 | 1 | 205 | 55668 | 1 |
| Cu | 65 | 10.000 | ug/L | 0.151 | 1 | 115 | 26767 | 1 |
| [Zn | 66 | 10.000 | ug/L | 0.038 | 0 | 205 | 17882 | 0 |
| Zn | 67 | 10.000 | ug/L | 0.142 | 1 | 171 | 2989 | 1 |
| Zn | 68 | 10.000 | ug/L | 0.199 | 1 | 5528 | 17686 | 1 |
| [As-1 | 75 | 10.000 | ug/L | 0.262 | 2 | 398 | 17138 | 2 |
| As | 75 | 10.000 | ug/L | 0.229 | 2 | 8296 | 24835 | 1 |
| [Se | 82 | 10.000 | ug/L | 0.167 | 1 | -4 | 1592 | 1 |
| Se | 78 | 10.000 | ug/L | 0.202 | 2 | 8433 | 12294 | 0 |
| [Mo | 98 | 10.000 | ug/L | 0.086 | 0 | 2471 | 58418 | 0 |
| Y | 89 | | ug/L | | | 245035 | 241757 | 0 |
| [Kr | 83 | | ug/L | | | 227 | 229 | 3 |
| > In | 115 | | ug/L | | | 308955 | 306685 | 0 |
| [Ag | 107 | 10.000 | ug/L | 0.123 | 1 | 37 | 96873 | 1 |
| Cd | 111 | 10.000 | ug/L | 0.029 | 0 | 138 | 25138 | 0 |
| [Cd | 114 | 10.000 | ug/L | 0.147 | 1 | 30 | 58971 | 1 |
| Sb | 121 | 10.000 | ug/L | 0.102 | 1 | 25 | 91251 | 0 |
| [Sb | 123 | 10.000 | ug/L | 0.104 | 1 | 26 | 68367 | 0 |
| Ba | 135 | 10.000 | ug/L | 0.160 | 1 | 14 | 19332 | 1 |
| [Ba | 137 | 10.000 | ug/L | 0.148 | 1 | 22 | 32728 | 1 |
| > Tb | 159 | | ug/L | | | 304039 | 308426 | 1 |
| [Tl | 205 | 10.000 | ug/L | 0.182 | 1 | 134 | 210027 | 1 |
| Pb | 208 | 10.000 | ug/L | 0.131 | 1 | 498 | 286983 | 0 |
| [Bi | 209 | | ug/L | | | 241074 | 242121 | 0 |
| Th | 232 | 10.000 | ug/L | 0.261 | 2 | 68 | 323807 | 1 |
| [U | 238 | 10.000 | ug/L | 0.241 | 2 | 25 | 346273 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 11:55:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 268064 | 283593 | 0 |
| [Be | 9 | 19.905 | ug/L | 0.201 | 1 | 5 | 7348 | 0 |
| C | 13 | | mg/L | | | 6464 | 4846 | 1 |
| Cl | 37 | | mg/L | | | 3388447 | 3249487 | 0 |
| [> Sc | 45 | | ug/L | | | 216466 | 212834 | 0 |
| V-1 | 51 | 19.975 | ug/L | 0.277 | 1 | 1181 | 189652 | 1 |
| V | 51 | 19.949 | ug/L | 0.316 | 1 | 6314 | 197087 | 1 |
| Cr | 52 | 19.993 | ug/L | 0.124 | 0 | 4888 | 172175 | 0 |
| Cr | 53 | 19.912 | ug/L | 0.279 | 1 | 2193 | 21833 | 1 |
| Mn | 55 | 20.006 | ug/L | 0.216 | 1 | 635 | 279650 | 0 |
| Co | 59 | 19.983 | ug/L | 0.051 | 0 | 36 | 217143 | 0 |
| [> Ge | 72 | | ug/L | | | 297443 | 293346 | 1 |
| Ni | 60 | 19.932 | ug/L | 0.098 | 0 | 45 | 46737 | 1 |
| Ni | 62 | 19.961 | ug/L | 0.114 | 0 | 50 | 7146 | 1 |
| Cu | 63 | 19.931 | ug/L | 0.221 | 1 | 205 | 109568 | 0 |
| Cu | 65 | 19.957 | ug/L | 0.138 | 0 | 115 | 53004 | 0 |
| Zn | 66 | 19.968 | ug/L | 0.243 | 1 | 205 | 35386 | 1 |
| Zn | 67 | 20.055 | ug/L | 0.226 | 1 | 171 | 5906 | 1 |
| Zn | 68 | 20.045 | ug/L | 0.378 | 1 | 5528 | 30299 | 0 |
| As-1 | 75 | 19.961 | ug/L | 0.284 | 1 | 398 | 33652 | 0 |
| As | 75 | 19.948 | ug/L | 0.304 | 1 | 8296 | 41203 | 0 |
| Se | 82 | 19.950 | ug/L | 0.293 | 1 | -4 | 3158 | 1 |
| Se | 78 | 19.891 | ug/L | 0.424 | 2 | 8433 | 16128 | 0 |
| Mo | 98 | 19.985 | ug/L | 0.343 | 1 | 2471 | 114310 | 1 |
| Y | 89 | | ug/L | | | 245035 | 242067 | 0 |
| Kr | 83 | | ug/L | | | 227 | 229 | 5 |
| [> In | 115 | | ug/L | | | 308955 | 305985 | 1 |
| Ag | 107 | 20.155 | ug/L | 0.352 | 1 | 37 | 200948 | 1 |
| Cd | 111 | 20.001 | ug/L | 0.198 | 0 | 138 | 50030 | 0 |
| Cd | 114 | 19.969 | ug/L | 0.229 | 1 | 30 | 116725 | 0 |
| Sb | 121 | 19.970 | ug/L | 0.176 | 0 | 25 | 180694 | 0 |
| Sb | 123 | 20.015 | ug/L | 0.335 | 1 | 26 | 136898 | 0 |
| Ba | 135 | 19.947 | ug/L | 0.199 | 0 | 14 | 38059 | 0 |
| Ba | 137 | 20.004 | ug/L | 0.490 | 2 | 22 | 65331 | 1 |
| [> Tb | 159 | | ug/L | | | 304039 | 306417 | 0 |
| Tl | 205 | 20.007 | ug/L | 0.127 | 0 | 134 | 417935 | 0 |
| Pb | 208 | 20.004 | ug/L | 0.167 | 0 | 498 | 570316 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 242314 | 0 |
| Th | 232 | 20.031 | ug/L | 0.082 | 0 | 68 | 648389 | 0 |
| U | 238 | 20.063 | ug/L | 0.033 | 0 | 25 | 699046 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:03:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 268064 | 275518 | 1 |
| [Be | 9 | 50.074 | ug/L | 0.541 | 1 | 5 | 18083 | 0 |
| C | 13 | | mg/L | | | 6464 | 5519 | 0 |
| Cl | 37 | | mg/L | | | 3388447 | 3295817 | 1 |
| [> Sc | 45 | | ug/L | | | 216466 | 211052 | 0 |
| V-1 | 51 | 49.957 | ug/L | 0.695 | 1 | 1181 | 466614 | 1 |
| V | 51 | 49.970 | ug/L | 0.432 | 0 | 6314 | 478891 | 1 |
| Cr | 52 | 49.950 | ug/L | 0.388 | 0 | 4888 | 417337 | 1 |
| Cr | 53 | 49.991 | ug/L | 0.432 | 0 | 2193 | 51085 | 1 |
| Mn | 55 | 49.936 | ug/L | 0.169 | 0 | 635 | 686841 | 0 |
| [Co | 59 | 49.900 | ug/L | 0.170 | 0 | 36 | 532283 | 0 |
| [> Ge | 72 | | ug/L | | | 297443 | 290888 | 1 |
| Ni | 60 | 49.831 | ug/L | 0.313 | 0 | 45 | 113886 | 1 |
| Ni | 62 | 49.776 | ug/L | 0.868 | 1 | 50 | 17210 | 1 |
| Cu | 63 | 49.788 | ug/L | 0.803 | 1 | 205 | 265504 | 1 |
| Cu | 65 | 49.732 | ug/L | 0.718 | 1 | 115 | 127387 | 0 |
| Zn | 66 | 49.716 | ug/L | 0.726 | 1 | 205 | 84662 | 0 |
| Zn | 67 | 49.954 | ug/L | 0.691 | 1 | 171 | 14276 | 2 |
| Zn | 68 | 49.746 | ug/L | 0.225 | 0 | 5528 | 65044 | 1 |
| As-1 | 75 | 49.936 | ug/L | 0.298 | 0 | 398 | 82383 | 0 |
| As | 75 | 49.935 | ug/L | 0.281 | 0 | 8296 | 89555 | 1 |
| Se | 82 | 49.916 | ug/L | 0.966 | 1 | -4 | 7778 | 0 |
| Se | 78 | 49.911 | ug/L | 0.845 | 1 | 8433 | 27511 | 0 |
| [Mo | 98 | 50.033 | ug/L | 0.546 | 1 | 2471 | 281075 | 0 |
| Y | 89 | | ug/L | | | 245035 | 238825 | 0 |
| Kr | 83 | | ug/L | | | 227 | 241 | 2 |
| [> In | 115 | | ug/L | | | 308955 | 301869 | 0 |
| Ag | 107 | 50.446 | ug/L | 0.138 | 0 | 37 | 519359 | 0 |
| Cd | 111 | 49.926 | ug/L | 0.660 | 1 | 138 | 122096 | 0 |
| Cd | 114 | 49.939 | ug/L | 0.445 | 0 | 30 | 286198 | 0 |
| Sb | 121 | 50.088 | ug/L | 0.649 | 1 | 25 | 451058 | 0 |
| Sb | 123 | 50.013 | ug/L | 0.926 | 1 | 26 | 337899 | 1 |
| Ba | 135 | 49.868 | ug/L | 0.512 | 1 | 14 | 92630 | 0 |
| [Ba | 137 | 49.877 | ug/L | 0.614 | 1 | 22 | 158748 | 0 |
| [> Tb | 159 | | ug/L | | | 304039 | 302561 | 0 |
| Tl | 205 | 49.874 | ug/L | 0.425 | 0 | 134 | 1015716 | 0 |
| Pb | 208 | 49.975 | ug/L | 0.138 | 0 | 498 | 1402622 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 237504 | 0 |
| Th | 232 | 50.019 | ug/L | 0.143 | 0 | 68 | 1601729 | 0 |
| [U | 238 | 49.945 | ug/L | 0.190 | 0 | 25 | 1708915 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:11:09

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 268064 | 272506 | 0 |
| [| Be | 9 | 100.249 | ug/L | 0.976 | 0 | 5 | 36104 | 1 |
| | C | 13 | | mg/L | | | 6464 | 4909 | 0 |
| | Cl | 37 | | mg/L | | | 3388447 | 3399887 | 1 |
| > | Sc | 45 | | ug/L | | | 216466 | 219335 | 1 |
| [| V-1 | 51 | 99.938 | ug/L | 1.461 | 1 | 1181 | 966789 | 1 |
| | V | 51 | 100.009 | ug/L | 1.255 | 1 | 6314 | 989833 | 1 |
| | Cr | 52 | 99.914 | ug/L | 2.119 | 2 | 4888 | 859999 | 0 |
| | Cr | 53 | 100.133 | ug/L | 1.446 | 1 | 2193 | 104549 | 0 |
| | Mn | 55 | 99.872 | ug/L | 1.059 | 1 | 635 | 1420809 | 0 |
| [| Co | 59 | 99.910 | ug/L | 0.727 | 0 | 36 | 1104150 | 0 |
| > | Ge | 72 | | ug/L | | | 297443 | 304630 | 0 |
| [| Ni | 60 | 99.719 | ug/L | 0.531 | 0 | 45 | 236391 | 0 |
| | Ni | 62 | 99.758 | ug/L | 0.564 | 0 | 50 | 35784 | 0 |
| | Cu | 63 | 99.618 | ug/L | 1.240 | 1 | 205 | 549116 | 1 |
| | Cu | 65 | 99.656 | ug/L | 1.866 | 1 | 115 | 264198 | 1 |
| | Zn | 66 | 99.735 | ug/L | 0.905 | 0 | 205 | 176114 | 0 |
| | Zn | 67 | 99.711 | ug/L | 0.838 | 0 | 171 | 29382 | 1 |
| | Zn | 68 | 99.805 | ug/L | 0.910 | 0 | 5528 | 130161 | 1 |
| | As-1 | 75 | 99.762 | ug/L | 1.090 | 1 | 398 | 170601 | 0 |
| | As | 75 | 99.765 | ug/L | 1.022 | 1 | 8296 | 177568 | 0 |
| | Se | 82 | 99.351 | ug/L | 2.103 | 2 | -4 | 15875 | 1 |
| | Se | 78 | 99.309 | ug/L | 1.129 | 1 | 8433 | 47877 | 0 |
| [| Mo | 98 | 99.853 | ug/L | 1.537 | 1 | 2471 | 582086 | 0 |
| | Y | 89 | | ug/L | | | 245035 | 247266 | 0 |
| | Kr | 83 | | ug/L | | | 227 | 243 | 2 |
| > | In | 115 | | ug/L | | | 308955 | 314989 | 1 |
| [| Ag | 107 | 99.696 | ug/L | 0.947 | 0 | 37 | 1060166 | 0 |
| | Cd | 111 | 99.435 | ug/L | 1.034 | 1 | 138 | 248921 | 0 |
| | Cd | 114 | 99.673 | ug/L | 1.878 | 1 | 30 | 589559 | 1 |
| | Sb | 121 | 99.820 | ug/L | 0.911 | 0 | 25 | 932352 | 0 |
| | Sb | 123 | 99.744 | ug/L | 0.885 | 0 | 26 | 697240 | 0 |
| | Ba | 135 | 100.103 | ug/L | 0.648 | 0 | 14 | 194684 | 0 |
| [| Ba | 137 | 99.653 | ug/L | 1.100 | 1 | 22 | 327149 | 0 |
| > | Tb | 159 | | ug/L | | | 304039 | 311143 | 0 |
| [| Tl | 205 | 101.973 | ug/L | 0.618 | 0 | 134 | 2285835 | 0 |
| | Pb | 208 | 99.705 | ug/L | 0.397 | 0 | 498 | 2849206 | 0 |
| | Bi | 209 | | ug/L | | | 241074 | 239448 | 0 |
| | Th | 232 | 101.647 | ug/L | 0.576 | 0 | 68 | 3541666 | 0 |
| [| U | 238 | 101.775 | ug/L | 0.434 | 0 | 25 | 3806326 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:18:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 275844 | 0 |
| [Be | 9 | -0.003 | ug/L | 0.009 | 320 | 5 | 5 | 66 |
| C | 13 | | mg/L | | | 6464 | 6012 | 2 |
| Cl | 37 | | mg/L | | | 3388447 | 3388286 | 0 |
| > Sc | 45 | | ug/L | | | 216466 | 217685 | 0 |
| V-1 | 51 | 0.013 | ug/L | 0.024 | 181 | 1181 | 1317 | 18 |
| V | 51 | -0.096 | ug/L | 0.004 | 4 | 6314 | 5413 | 1 |
| Cr | 52 | -0.008 | ug/L | 0.006 | 78 | 4888 | 4850 | 1 |
| Cr | 53 | -0.343 | ug/L | 0.077 | 22 | 2193 | 1858 | 3 |
| Mn | 55 | -0.008 | ug/L | 0.003 | 32 | 635 | 522 | 7 |
| Co | 59 | 0.002 | ug/L | 0.002 | 62 | 36 | 63 | 26 |
| > Ge | 72 | | ug/L | | | 297443 | 300641 | 0 |
| Ni | 60 | 0.006 | ug/L | 0.004 | 64 | 45 | 60 | 15 |
| Ni | 62 | -0.016 | ug/L | 0.016 | 105 | 50 | 45 | 12 |
| Cu | 63 | 0.002 | ug/L | 0.004 | 144 | 205 | 220 | 8 |
| Cu | 65 | -0.007 | ug/L | 0.005 | 69 | 115 | 97 | 13 |
| Zn | 66 | -0.030 | ug/L | 0.012 | 38 | 205 | 155 | 12 |
| Zn | 67 | -0.090 | ug/L | 0.042 | 46 | 171 | 147 | 8 |
| Zn | 68 | -0.063 | ug/L | 0.045 | 71 | 5528 | 5509 | 0 |
| As-1 | 75 | 0.042 | ug/L | 0.023 | 54 | 398 | 472 | 7 |
| As | 75 | 0.068 | ug/L | 0.058 | 86 | 8296 | 8498 | 1 |
| Se | 82 | 0.043 | ug/L | 0.054 | 126 | -4 | 1 | 507 |
| Se | 78 | 0.203 | ug/L | 0.258 | 127 | 8433 | 8603 | 1 |
| Mo | 98 | -0.400 | ug/L | 0.003 | 0 | 2471 | 207 | 8 |
| Y | 89 | | ug/L | | | 245035 | 246388 | 0 |
| Kr | 83 | | ug/L | | | 227 | 237 | 3 |
| > In | 115 | | ug/L | | | 308955 | 312223 | 0 |
| Ag | 107 | 0.010 | ug/L | 0.002 | 17 | 37 | 145 | 12 |
| Cd | 111 | -0.004 | ug/L | 0.002 | 53 | 138 | 129 | 4 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 390 | 30 | 31 | 14 |
| Sb | 121 | 0.053 | ug/L | 0.010 | 17 | 25 | 517 | 16 |
| Sb | 123 | 0.056 | ug/L | 0.009 | 15 | 26 | 415 | 14 |
| Ba | 135 | 0.005 | ug/L | 0.002 | 41 | 14 | 23 | 15 |
| Ba | 137 | 0.003 | ug/L | 0.002 | 51 | 22 | 33 | 16 |
| > Tb | 159 | | ug/L | | | 304039 | 304694 | 0 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 19 | 134 | 227 | 8 |
| Pb | 208 | 0.002 | ug/L | 0.001 | 64 | 498 | 545 | 5 |
| Bi | 209 | | ug/L | | | 241074 | 245506 | 0 |
| Th | 232 | 0.016 | ug/L | 0.002 | 12 | 68 | 612 | 11 |
| U | 238 | 0.004 | ug/L | 0.001 | 27 | 25 | 155 | 23 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Wednesday, March 31, 2010 12:11:09

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0441 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0448 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0390 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0047 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0648 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0504 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 1.0000 | 0.0181 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0087 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0058 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0191 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0338 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 0.9999 | 0.0079 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0188 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0297 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0222 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0062 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0104 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9993 | 0.0720 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0918 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1120 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9995 | 0.1202 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:28:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 280827 | 0 |
| [Be | 9 | 50.161 | ug/L | 0.307 | 0 | 5 | 18619 | 0 |
| C | 13 | | mg/L | | | 6464 | 7605 | 2 |
| Cl | 37 | | mg/L | | | 3388447 | 3405776 | 1 |
| > Sc | 45 | | ug/L | | | 216466 | 221557 | 0 |
| V-1 | 51 | 50.524 | ug/L | 0.406 | 0 | 1181 | 494372 | 1 |
| V | 51 | 50.419 | ug/L | 0.376 | 0 | 6314 | 507328 | 0 |
| Cr | 52 | 50.791 | ug/L | 0.359 | 0 | 4888 | 444158 | 1 |
| Cr | 53 | 50.452 | ug/L | 0.249 | 0 | 2193 | 54333 | 0 |
| Mn | 55 | 51.814 | ug/L | 0.333 | 0 | 635 | 744964 | 0 |
| Co | 59 | 50.673 | ug/L | 0.031 | 0 | 36 | 565742 | 0 |
| > Ge | 72 | | ug/L | | | 297443 | 307482 | 0 |
| Ni | 60 | 52.397 | ug/L | 0.557 | 1 | 45 | 125394 | 0 |
| Ni | 62 | 51.712 | ug/L | 0.625 | 1 | 50 | 18748 | 0 |
| Cu | 63 | 51.498 | ug/L | 0.621 | 1 | 205 | 286628 | 0 |
| Cu | 65 | 51.380 | ug/L | 0.356 | 0 | 115 | 137547 | 0 |
| Zn | 66 | 52.938 | ug/L | 0.646 | 1 | 205 | 94453 | 0 |
| Zn | 67 | 52.014 | ug/L | 0.969 | 1 | 171 | 15554 | 1 |
| Zn | 68 | 52.248 | ug/L | 0.515 | 0 | 5528 | 71498 | 0 |
| As-1 | 75 | 50.255 | ug/L | 0.381 | 0 | 398 | 86951 | 0 |
| As | 75 | 50.157 | ug/L | 0.272 | 0 | 8296 | 94375 | 0 |
| Se | 82 | 79.821 | ug/L | 0.762 | 0 | -4 | 12873 | 0 |
| Se | 78 | 80.175 | ug/L | 0.375 | 0 | 8433 | 40695 | 0 |
| Mo | 98 | 50.252 | ug/L | 0.211 | 0 | 2471 | 296979 | 0 |
| Y | 89 | | ug/L | | | 245035 | 250828 | 1 |
| Kr | 83 | | ug/L | | | 227 | 237 | 5 |
| > In | 115 | | ug/L | | | 308955 | 319561 | 1 |
| Ag | 107 | 47.633 | ug/L | 0.310 | 0 | 37 | 513908 | 0 |
| Cd | 111 | 50.814 | ug/L | 0.409 | 0 | 138 | 129121 | 0 |
| Cd | 114 | 50.377 | ug/L | 0.386 | 0 | 30 | 302335 | 0 |
| Sb | 121 | 49.503 | ug/L | 0.326 | 0 | 25 | 469117 | 1 |
| Sb | 123 | 49.857 | ug/L | 0.406 | 0 | 26 | 353601 | 1 |
| Ba | 135 | 50.622 | ug/L | 0.575 | 1 | 14 | 99881 | 0 |
| Ba | 137 | 51.452 | ug/L | 0.906 | 1 | 22 | 171364 | 0 |
| > Tb | 159 | | ug/L | | | 304039 | 312275 | 0 |
| Tl | 205 | 47.623 | ug/L | 0.196 | 0 | 134 | 1071484 | 0 |
| Pb | 208 | 52.522 | ug/L | 0.379 | 0 | 498 | 1506548 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 250723 | 0 |
| Th | 232 | 48.480 | ug/L | 0.603 | 1 | 68 | 1695265 | 1 |
| U | 238 | 47.984 | ug/L | 0.958 | 1 | 25 | 1800980 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:35:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 268064 | 274596 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.010 | 135 | 5 | 8 | 42 |
| C | 13 | | mg/L | | | 6464 | 6063 | 1 |
| Cl | 37 | | mg/L | | | 3388447 | 3399481 | 0 |
| [> Sc | 45 | | ug/L | | | 216466 | 216892 | 0 |
| V-1 | 51 | 0.013 | ug/L | 0.006 | 45 | 1181 | 1309 | 4 |
| V | 51 | -0.124 | ug/L | 0.005 | 3 | 6314 | 5125 | 1 |
| Cr | 52 | -0.005 | ug/L | 0.004 | 75 | 4888 | 4855 | 0 |
| Cr | 53 | -0.424 | ug/L | 0.013 | 3 | 2193 | 1769 | 0 |
| Mn | 55 | -0.013 | ug/L | 0.003 | 23 | 635 | 456 | 9 |
| [Co | 59 | 0.002 | ug/L | 0.001 | 45 | 36 | 62 | 19 |
| [> Ge | 72 | | ug/L | | | 297443 | 301857 | 0 |
| Ni | 60 | 0.004 | ug/L | 0.005 | 128 | 45 | 55 | 22 |
| Ni | 62 | -0.021 | ug/L | 0.013 | 63 | 50 | 44 | 10 |
| Cu | 63 | -0.002 | ug/L | 0.001 | 60 | 205 | 197 | 3 |
| Cu | 65 | -0.012 | ug/L | 0.004 | 32 | 115 | 86 | 11 |
| Zn | 66 | -0.041 | ug/L | 0.006 | 15 | 205 | 136 | 8 |
| Zn | 67 | -0.139 | ug/L | 0.038 | 27 | 171 | 133 | 8 |
| Zn | 68 | -0.155 | ug/L | 0.104 | 66 | 5528 | 5417 | 2 |
| As-1 | 75 | 0.050 | ug/L | 0.009 | 17 | 398 | 489 | 3 |
| As | 75 | 0.056 | ug/L | 0.005 | 9 | 8296 | 8512 | 0 |
| Se | 82 | 0.088 | ug/L | 0.040 | 45 | -4 | 8 | 71 |
| Se | 78 | 0.158 | ug/L | 0.066 | 41 | 8433 | 8620 | 0 |
| [Mo | 98 | -0.411 | ug/L | 0.002 | 0 | 2471 | 144 | 6 |
| Y | 89 | | ug/L | | | 245035 | 248052 | 1 |
| Kr | 83 | | ug/L | | | 227 | 238 | 3 |
| [> In | 115 | | ug/L | | | 308955 | 310403 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 11 | 37 | 105 | 6 |
| Cd | 111 | 0.001 | ug/L | 0.006 | 650 | 138 | 141 | 11 |
| Cd | 114 | -0.000 | ug/L | 0.000 | 95 | 30 | 27 | 9 |
| Sb | 121 | 0.016 | ug/L | 0.001 | 8 | 25 | 170 | 7 |
| Sb | 123 | 0.013 | ug/L | 0.003 | 25 | 26 | 115 | 18 |
| Ba | 135 | 0.003 | ug/L | 0.001 | 54 | 14 | 19 | 13 |
| [Ba | 137 | 0.002 | ug/L | 0.003 | 177 | 22 | 28 | 35 |
| [> Tb | 159 | | ug/L | | | 304039 | 305671 | 1 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 79 | 134 | 161 | 13 |
| Pb | 208 | 0.001 | ug/L | 0.002 | 288 | 498 | 523 | 12 |
| Bi | 209 | | ug/L | | | 241074 | 245892 | 0 |
| Th | 232 | 0.012 | ug/L | 0.002 | 16 | 68 | 475 | 14 |
| [U | 238 | 0.002 | ug/L | 0.001 | 34 | 25 | 113 | 26 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:43:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 271486 | 1 |
| [Be | 9 | 50.210 | ug/L | 0.675 | 1 | 5 | 18016 | 0 |
| C | 13 | | mg/L | | | 6464 | 5510 | 1 |
| Cl | 37 | | mg/L | | | 3388447 | 3410890 | 0 |
| > Sc | 45 | | ug/L | | | 216466 | 216181 | 0 |
| V-1 | 51 | 50.599 | ug/L | 0.696 | 1 | 1181 | 483049 | 0 |
| V | 51 | 50.535 | ug/L | 0.819 | 1 | 6314 | 496090 | 0 |
| Cr | 52 | 50.716 | ug/L | 0.350 | 0 | 4888 | 432733 | 0 |
| Cr | 53 | 50.511 | ug/L | 0.686 | 1 | 2193 | 53069 | 0 |
| Mn | 55 | 50.389 | ug/L | 0.409 | 0 | 635 | 706943 | 1 |
| Co | 59 | 50.497 | ug/L | 0.339 | 0 | 36 | 550083 | 0 |
| > Ge | 72 | | ug/L | | | 297443 | 301935 | 0 |
| Ni | 60 | 49.972 | ug/L | 0.511 | 1 | 45 | 117434 | 0 |
| Ni | 62 | 50.515 | ug/L | 0.798 | 1 | 50 | 17984 | 0 |
| Cu | 63 | 50.623 | ug/L | 0.352 | 0 | 205 | 276690 | 1 |
| Cu | 65 | 50.804 | ug/L | 0.583 | 1 | 115 | 133557 | 1 |
| Zn | 66 | 50.528 | ug/L | 0.717 | 1 | 205 | 88533 | 0 |
| Zn | 67 | 50.311 | ug/L | 1.000 | 1 | 171 | 14780 | 1 |
| Zn | 68 | 50.565 | ug/L | 0.574 | 1 | 5528 | 68125 | 0 |
| As-1 | 75 | 50.396 | ug/L | 0.600 | 1 | 398 | 85617 | 0 |
| As | 75 | 50.458 | ug/L | 0.619 | 1 | 8296 | 93174 | 0 |
| Se | 82 | 50.680 | ug/L | 0.348 | 0 | -4 | 8024 | 1 |
| Se | 78 | 50.908 | ug/L | 0.377 | 0 | 8433 | 28498 | 0 |
| Mo | 98 | 50.085 | ug/L | 0.318 | 0 | 2471 | 290650 | 0 |
| Y | 89 | | ug/L | | | 245035 | 244048 | 0 |
| Kr | 83 | | ug/L | | | 227 | 231 | 4 |
| > In | 115 | | ug/L | | | 308955 | 313135 | 1 |
| Ag | 107 | 51.048 | ug/L | 0.551 | 1 | 37 | 539631 | 0 |
| Cd | 111 | 51.317 | ug/L | 0.786 | 1 | 138 | 127760 | 0 |
| Cd | 114 | 50.797 | ug/L | 0.837 | 1 | 30 | 298687 | 1 |
| Sb | 121 | 50.214 | ug/L | 0.569 | 1 | 25 | 466227 | 0 |
| Sb | 123 | 50.809 | ug/L | 0.865 | 1 | 26 | 353035 | 0 |
| Ba | 135 | 49.899 | ug/L | 0.715 | 1 | 14 | 96467 | 0 |
| Ba | 137 | 50.184 | ug/L | 0.558 | 1 | 22 | 163777 | 0 |
| > Tb | 159 | | ug/L | | | 304039 | 306505 | 0 |
| Tl | 205 | 47.250 | ug/L | 0.343 | 0 | 134 | 1043413 | 0 |
| Pb | 208 | 50.697 | ug/L | 0.198 | 0 | 498 | 1427354 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 241691 | 1 |
| Th | 232 | 47.351 | ug/L | 0.286 | 0 | 68 | 1625226 | 0 |
| U | 238 | 47.223 | ug/L | 0.545 | 1 | 25 | 1739682 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:50:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 268064 | 273600 | 0 |
| [| Be | 9 | 0.001 | ug/L | 0.006 | 735 | 5 | 6 | 34 |
| | C | 13 | | mg/L | | | 6464 | 5837 | 1 |
| | Cl | 37 | | mg/L | | | 3388447 | 3429930 | 0 |
| [> | Sc | 45 | | ug/L | | | 216466 | 216042 | 0 |
| [| V-1 | 51 | -0.002 | ug/L | 0.013 | 589 | 1181 | 1159 | 11 |
| [| V | 51 | -0.133 | ug/L | 0.008 | 6 | 6314 | 5013 | 2 |
| [| Cr | 52 | -0.001 | ug/L | 0.005 | 894 | 4888 | 4874 | 0 |
| [| Cr | 53 | -0.403 | ug/L | 0.029 | 7 | 2193 | 1783 | 1 |
| [| Mn | 55 | -0.014 | ug/L | 0.001 | 5 | 635 | 433 | 3 |
| [| Co | 59 | 0.002 | ug/L | 0.000 | 18 | 36 | 57 | 7 |
| [> | Ge | 72 | | ug/L | | | 297443 | 304528 | 0 |
| [| Ni | 60 | 0.003 | ug/L | 0.002 | 72 | 45 | 52 | 9 |
| [| Ni | 62 | -0.024 | ug/L | 0.020 | 83 | 50 | 43 | 17 |
| [| Cu | 63 | -0.004 | ug/L | 0.002 | 46 | 205 | 190 | 5 |
| [| Cu | 65 | -0.016 | ug/L | 0.005 | 32 | 115 | 74 | 19 |
| [| Zn | 66 | -0.037 | ug/L | 0.011 | 29 | 205 | 144 | 13 |
| [| Zn | 67 | -0.080 | ug/L | 0.024 | 30 | 171 | 152 | 5 |
| [| Zn | 68 | -0.101 | ug/L | 0.078 | 76 | 5528 | 5533 | 1 |
| [| As-1 | 75 | 0.023 | ug/L | 0.033 | 142 | 398 | 447 | 12 |
| [| As | 75 | 0.039 | ug/L | 0.025 | 64 | 8296 | 8559 | 0 |
| [| Se | 82 | 0.016 | ug/L | 0.079 | 483 | -4 | -2 | 506 |
| [| Se | 78 | 0.119 | ug/L | 0.129 | 108 | 8433 | 8681 | 0 |
| [| Mo | 98 | -0.416 | ug/L | 0.003 | 0 | 2471 | 118 | 12 |
| | Y | 89 | | ug/L | | | 245035 | 249498 | 1 |
| | Kr | 83 | | ug/L | | | 227 | 238 | 2 |
| [> | In | 115 | | ug/L | | | 308955 | 316618 | 1 |
| [| Ag | 107 | 0.008 | ug/L | 0.001 | 17 | 37 | 122 | 13 |
| [| Cd | 111 | -0.000 | ug/L | 0.001 | 428 | 138 | 141 | 1 |
| [| Cd | 114 | 0.000 | ug/L | 0.001 | 1450 | 30 | 31 | 23 |
| [| Sb | 121 | 0.023 | ug/L | 0.004 | 15 | 25 | 241 | 15 |
| [| Sb | 123 | 0.023 | ug/L | 0.007 | 30 | 26 | 188 | 26 |
| [| Ba | 135 | 0.003 | ug/L | 0.003 | 111 | 14 | 20 | 28 |
| [| Ba | 137 | 0.002 | ug/L | 0.001 | 44 | 22 | 30 | 11 |
| [> | Tb | 159 | | ug/L | | | 304039 | 309723 | 0 |
| [| Tl | 205 | 0.002 | ug/L | 0.001 | 67 | 134 | 184 | 18 |
| [| Pb | 208 | 0.001 | ug/L | 0.001 | 127 | 498 | 528 | 5 |
| [| Bi | 209 | | ug/L | | | 241074 | 248448 | 1 |
| [| Th | 232 | 0.015 | ug/L | 0.003 | 22 | 68 | 575 | 20 |
| [| U | 238 | 0.003 | ug/L | 0.001 | 37 | 25 | 125 | 30 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~LOW CHECK~~ *222222*

Sample Dil Factor: *3.31*

Comments:

Sample Date/Time: Wednesday, March 31, 2010 12:58:08

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 280365 | 0 |
| [Be | 9 | 0.201 | ug/L | 0.016 | 8 | 5 | 80 | 7 |
| C | 13 | | mg/L | | | 6464 | 4811 | 0 |
| Cl | 37 | | mg/L | | | 3388447 | 3387591 | 0 |
| > Sc | 45 | | ug/L | | | 216466 | 218121 | 0 |
| V-1 | 51 | 0.214 | ug/L | 0.010 | 4 | 1181 | 3247 | 3 |
| V | 51 | 0.053 | ug/L | 0.009 | 16 | 6314 | 6877 | 0 |
| Cr | 52 | 0.495 | ug/L | 0.021 | 4 | 4888 | 9135 | 2 |
| Cr | 53 | -0.017 | ug/L | 0.028 | 165 | 2193 | 2192 | 0 |
| Mn | 55 | 0.486 | ug/L | 0.004 | 0 | 635 | 7520 | 0 |
| Co | 59 | 0.208 | ug/L | 0.006 | 2 | 36 | 2318 | 3 |
| > Ge | 72 | | ug/L | | | 297443 | 307483 | 0 |
| Ni | 60 | 0.492 | ug/L | 0.015 | 3 | 45 | 1224 | 3 |
| Ni | 62 | 0.423 | ug/L | 0.030 | 7 | 50 | 205 | 5 |
| Cu | 63 | 0.506 | ug/L | 0.011 | 2 | 205 | 3024 | 1 |
| Cu | 65 | 0.496 | ug/L | 0.014 | 2 | 115 | 1446 | 2 |
| Zn | 66 | 3.991 | ug/L | 0.077 | 1 | 205 | 7317 | 1 |
| Zn | 67 | 3.388 | ug/L | 0.194 | 5 | 171 | 1178 | 4 |
| Zn | 68 | 3.792 | ug/L | 0.116 | 3 | 5528 | 10487 | 0 |
| As-1 | 75 | 0.225 | ug/L | 0.013 | 5 | 398 | 799 | 2 |
| As | 75 | 0.180 | ug/L | 0.070 | 38 | 8296 | 8883 | 0 |
| Se | 82 | 0.560 | ug/L | 0.082 | 14 | -4 | 85 | 16 |
| Se | 78 | 0.329 | ug/L | 0.313 | 95 | 8433 | 8849 | 1 |
| Mo | 98 | -0.231 | ug/L | 0.006 | 2 | 2471 | 1198 | 2 |
| Y | 89 | | ug/L | | | 245035 | 250597 | 1 |
| Kr | 83 | | ug/L | | | 227 | 227 | 3 |
| > In | 115 | | ug/L | | | 308955 | 320503 | 1 |
| Ag | 107 | 0.196 | ug/L | 0.002 | 1 | 37 | 2160 | 1 |
| Cd | 111 | 0.207 | ug/L | 0.016 | 7 | 138 | 669 | 5 |
| Cd | 114 | 0.198 | ug/L | 0.010 | 5 | 30 | 1225 | 3 |
| Sb | 121 | 0.197 | ug/L | 0.006 | 2 | 25 | 1898 | 2 |
| Sb | 123 | 0.205 | ug/L | 0.007 | 3 | 26 | 1483 | 4 |
| Ba | 135 | 0.489 | ug/L | 0.014 | 2 | 14 | 983 | 3 |
| Ba | 137 | 0.502 | ug/L | 0.016 | 3 | 22 | 1700 | 3 |
| > Tb | 159 | | ug/L | | | 304039 | 311205 | 1 |
| Tl | 205 | 0.199 | ug/L | 0.007 | 3 | 134 | 4588 | 1 |
| Pb | 208 | 1.007 | ug/L | 0.012 | 1 | 498 | 29280 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 251199 | 0 |
| Th | 232 | 0.192 | ug/L | 0.003 | 1 | 68 | 6762 | 0 |
| U | 238 | 0.190 | ug/L | 0.005 | 2 | 25 | 7147 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **IC5A**

Sample Dil Factor:

WZZ *3.31*

Comments:

Sample Date/Time: **Wednesday, March 31, 2010 13:05:37**

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 268064 | 275273 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.005 | 286 | 5 | 6 | 28 |
| C | 13 | | mg/L | | | 6464 | 18679 | 0 |
| Cl | 37 | | mg/L | | | 3388447 | 4961635 | 0 |
| > Sc | 45 | | ug/L | | | 216466 | 206066 | 1 |
| V-1 | 51 | -0.009 | ug/L | 0.015 | 167 | 1181 | 1044 | 12 |
| V | 51 | 0.402 | ug/L | 0.030 | 7 | 6314 | 9722 | 1 |
| Cr | 52 | 0.523 | ug/L | 0.030 | 5 | 4888 | 8855 | 1 |
| Cr | 53 | 1.758 | ug/L | 0.105 | 5 | 2193 | 3775 | 1 |
| Mn | 55 | 0.165 | ug/L | 0.007 | 4 | 635 | 2811 | 2 |
| Co | 59 | 0.032 | ug/L | 0.002 | 4 | 36 | 367 | 4 |
| > Ge | 72 | | ug/L | | | 297443 | 290647 | 1 |
| Ni | 60 | 0.379 | ug/L | 0.006 | 1 | 45 | 901 | 2 |
| Ni | 62 | 3.125 | ug/L | 0.258 | 8 | 50 | 1117 | 7 |
| Cu | 63 | 0.357 | ug/L | 0.013 | 3 | 205 | 2079 | 2 |
| Cu | 65 | 0.482 | ug/L | 0.004 | 0 | 115 | 1330 | 1 |
| Zn | 66 | 1.014 | ug/L | 0.032 | 3 | 205 | 1906 | 2 |
| Zn | 67 | 1.328 | ug/L | 0.082 | 6 | 171 | 538 | 3 |
| Zn | 68 | 0.220 | ug/L | 0.061 | 27 | 5528 | 5663 | 1 |
| As-1 | 75 | 0.033 | ug/L | 0.013 | 40 | 398 | 442 | 5 |
| As | 75 | 0.093 | ug/L | 0.084 | 90 | 8296 | 8255 | 1 |
| Se | 82 | 0.010 | ug/L | 0.074 | 715 | -4 | -3 | 351 |
| Se | 78 | 0.381 | ug/L | 0.408 | 107 | 8433 | 8383 | 1 |
| [Mo | 98 | 440.727 | ug/L | 2.591 | 0 | 2471 | 2443266 | 1 |
| Y | 89 | | ug/L | | | 245035 | 238617 | 1 |
| Kr | 83 | | ug/L | | | 227 | 239 | 4 |
| > In | 115 | | ug/L | | | 308955 | 300467 | 1 |
| Ag | 107 | 0.033 | ug/L | 0.003 | 9 | 37 | 369 | 9 |
| Cd | 111 | 0.053 | ug/L | 0.014 | 27 | 138 | 260 | 12 |
| Cd | 114 | 0.536 | ug/L | 0.002 | 0 | 30 | 3055 | 0 |
| Sb | 121 | 0.052 | ug/L | 0.001 | 1 | 25 | 485 | 1 |
| Sb | 123 | 0.046 | ug/L | 0.001 | 1 | 26 | 332 | 2 |
| Ba | 135 | 0.035 | ug/L | 0.003 | 9 | 14 | 79 | 8 |
| Ba | 137 | 0.033 | ug/L | 0.003 | 9 | 22 | 126 | 7 |
| > Tb | 159 | | ug/L | | | 304039 | 297185 | 1 |
| Tl | 205 | -0.000 | ug/L | 0.000 | 161 | 134 | 127 | 4 |
| Pb | 208 | 0.059 | ug/L | 0.002 | 2 | 498 | 2086 | 0 |
| Bi | 209 | | ug/L | | | 241074 | 232499 | 0 |
| Th | 232 | 0.026 | ug/L | 0.001 | 4 | 68 | 944 | 4 |
| [U | 238 | 0.000 | ug/L | 0.000 | 60 | 25 | 33 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor: *2222*

Comments: *Q21 3.31*

Sample Date/Time: Wednesday, March 31, 2010 13:13:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 268064 | 277987 | 0 |
| [Be | 9 | -0.002 | ug/L | 0.004 | 227 | 5 | 5 | 26 |
| C | 13 | | mg/L | | | 6464 | 16466 | 0 |
| Cl | 37 | | mg/L | | | 3388447 | 4724299 | 0 |
| [> Sc | 45 | | ug/L | | | 216466 | 201133 | 0 |
| V-1 | 51 | -0.432 | ug/L | 0.113 | 26 | 1181 | -2731 | 36 |
| V | 51 | 0.458 | ug/L | 0.003 | 0 | 6314 | 9996 | 0 |
| Cr | 52 | 20.812 | ug/L | 0.093 | 0 | 4888 | 167895 | 0 |
| Cr | 53 | 22.411 | ug/L | 0.261 | 1 | 2193 | 23042 | 1 |
| Mn | 55 | 20.442 | ug/L | 0.178 | 0 | 635 | 267178 | 1 |
| [Co | 59 | 20.248 | ug/L | 0.172 | 0 | 36 | 205240 | 0 |
| [> Ge | 72 | | ug/L | | | 297443 | 287584 | 1 |
| Ni | 60 | 19.882 | ug/L | 0.066 | 0 | 45 | 44531 | 1 |
| Ni | 62 | 22.644 | ug/L | 0.200 | 0 | 50 | 7705 | 0 |
| Cu | 63 | 20.103 | ug/L | 0.076 | 0 | 205 | 104774 | 1 |
| Cu | 65 | 19.958 | ug/L | 0.203 | 1 | 115 | 50037 | 1 |
| Zn | 66 | 20.227 | ug/L | 0.438 | 2 | 205 | 33872 | 1 |
| Zn | 67 | 18.818 | ug/L | 0.322 | 1 | 171 | 5368 | 0 |
| Zn | 68 | 19.065 | ug/L | 0.250 | 1 | 5528 | 27793 | 0 |
| As-1 | 75 | 19.745 | ug/L | 0.177 | 0 | 398 | 32184 | 0 |
| As | 75 | 19.922 | ug/L | 0.216 | 1 | 8296 | 39892 | 0 |
| Se | 82 | 0.047 | ug/L | 0.065 | 139 | -4 | 2 | 436 |
| Se | 78 | 0.334 | ug/L | 0.185 | 55 | 8433 | 8278 | 0 |
| [Mo | 98 | 435.573 | ug/L | 4.076 | 0 | 2471 | 2389089 | 0 |
| Y | 89 | | ug/L | | | 245035 | 234796 | 0 |
| Kr | 83 | | ug/L | | | 227 | 233 | 1 |
| [> In | 115 | | ug/L | | | 308955 | 292212 | 0 |
| Ag | 107 | 18.460 | ug/L | 0.068 | 0 | 37 | 182148 | 0 |
| Cd | 111 | 20.230 | ug/L | 0.244 | 1 | 138 | 47087 | 1 |
| Cd | 114 | 20.541 | ug/L | 0.142 | 0 | 30 | 112749 | 0 |
| Sb | 121 | 0.051 | ug/L | 0.004 | 7 | 25 | 467 | 6 |
| Sb | 123 | 0.053 | ug/L | 0.004 | 6 | 26 | 370 | 6 |
| Ba | 135 | 0.043 | ug/L | 0.004 | 8 | 14 | 92 | 6 |
| [Ba | 137 | 0.037 | ug/L | 0.004 | 10 | 22 | 132 | 8 |
| [> Tb | 159 | | ug/L | | | 304039 | 296381 | 1 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 13 | 134 | 225 | 6 |
| Pb | 208 | 0.062 | ug/L | 0.005 | 7 | 498 | 2179 | 4 |
| Bi | 209 | | ug/L | | | 241074 | 231615 | 0 |
| Th | 232 | 0.016 | ug/L | 0.001 | 8 | 68 | 602 | 6 |
| [U | 238 | 0.000 | ug/L | 0.000 | 82 | 25 | 30 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 13:23:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | | 282102 | 0 |
| [Be | 9 | | ug/L | | | | 4 | 41 |
| C | 13 | | mg/L | | | | 5458 | 1 |
| Cl | 37 | | mg/L | | | | 3083861 | 0 |
| > Sc | 45 | | ug/L | | | | 202397 | 1 |
| [V-1 | 51 | | ug/L | | | | 1385 | 11 |
| V | 51 | | ug/L | | | | 5533 | 2 |
| Cr | 52 | | ug/L | | | | 4562 | 3 |
| Cr | 53 | | ug/L | | | | 1842 | 3 |
| Mn | 55 | | ug/L | | | | 397 | 4 |
| Co | 59 | | ug/L | | | | 30 | 8 |
| > Ge | 72 | | ug/L | | | | 285210 | 0 |
| [Ni | 60 | | ug/L | | | | 49 | 8 |
| Ni | 62 | | ug/L | | | | 30 | 39 |
| Cu | 63 | | ug/L | | | | 165 | 7 |
| Cu | 65 | | ug/L | | | | 80 | 16 |
| Zn | 66 | | ug/L | | | | 143 | 6 |
| Zn | 67 | | ug/L | | | | 130 | 9 |
| Zn | 68 | | ug/L | | | | 5096 | 0 |
| As-1 | 75 | | ug/L | | | | 416 | 5 |
| As | 75 | | ug/L | | | | 8220 | 0 |
| Se | 82 | | ug/L | | | | -6 | 75 |
| Se | 78 | | ug/L | | | | 8331 | 0 |
| [Mo | 98 | | ug/L | | | | 186 | 12 |
| Y | 89 | | ug/L | | | | 239284 | 0 |
| Kr | 83 | | ug/L | | | | 224 | 0 |
| > In | 115 | | ug/L | | | | 300134 | 1 |
| [Ag | 107 | | ug/L | | | | 48 | 36 |
| Cd | 111 | | ug/L | | | | 119 | 10 |
| Cd | 114 | | ug/L | | | | 23 | 33 |
| Sb | 121 | | ug/L | | | | 43 | 9 |
| Sb | 123 | | ug/L | | | | 30 | 20 |
| Ba | 135 | | ug/L | | | | 16 | 42 |
| [Ba | 137 | | ug/L | | | | 17 | 25 |
| > Tb | 159 | | ug/L | | | | 301281 | 1 |
| [Tl | 205 | | ug/L | | | | 153 | 6 |
| Pb | 208 | | ug/L | | | | 416 | 1 |
| Bi | 209 | | ug/L | | | | 242571 | 1 |
| Th | 232 | | ug/L | | | | 158 | 9 |
| [U | 238 | | ug/L | | | | 22 | 11 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Wednesday, March 31, 2010 13:23:55

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0441 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0448 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0390 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0047 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0648 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0504 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 1.0000 | 0.0181 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0087 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0058 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0191 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0338 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 0.9999 | 0.0079 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0188 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0297 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0222 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0062 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0104 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9993 | 0.0720 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0918 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1120 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9995 | 0.1202 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 13:31:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 282102 | 276843 | 0 |
| [| Be | 9 | 49.061 | ug/L | 0.684 | 1 | 4 | 17950 | 0 |
| | C | 13 | | mg/L | | | 5458 | 4991 | 3 |
| | Cl | 37 | | mg/L | | | 3083861 | 3114817 | 0 |
| > | Sc | 45 | | ug/L | | | 202397 | 200412 | 1 |
| [| V-1 | 51 | 50.351 | ug/L | 0.579 | 1 | 1385 | 445918 | 1 |
| | V | 51 | 50.501 | ug/L | 0.600 | 1 | 5533 | 459257 | 1 |
| | Cr | 52 | 50.147 | ug/L | 0.854 | 1 | 4562 | 396668 | 0 |
| | Cr | 53 | 50.619 | ug/L | 0.847 | 1 | 1842 | 49089 | 0 |
| | Mn | 55 | 50.616 | ug/L | 0.427 | 0 | 397 | 658065 | 0 |
| | Co | 59 | 50.201 | ug/L | 0.837 | 1 | 30 | 506920 | 0 |
| > | Ge | 72 | | ug/L | | | 285210 | 282146 | 0 |
| [| Ni | 60 | 49.610 | ug/L | 1.485 | 2 | 49 | 108940 | 2 |
| | Ni | 62 | 49.156 | ug/L | 0.988 | 2 | 30 | 16336 | 1 |
| | Cu | 63 | 50.197 | ug/L | 0.821 | 1 | 165 | 256336 | 1 |
| | Cu | 65 | 49.608 | ug/L | 0.390 | 0 | 80 | 121836 | 0 |
| | Zn | 66 | 49.935 | ug/L | 0.293 | 0 | 143 | 81716 | 0 |
| | Zn | 67 | 49.749 | ug/L | 0.474 | 0 | 130 | 13625 | 1 |
| | Zn | 68 | 49.941 | ug/L | 0.471 | 0 | 5096 | 62743 | 1 |
| | As-1 | 75 | 50.222 | ug/L | 0.101 | 0 | 416 | 79769 | 0 |
| | As | 75 | 50.228 | ug/L | 0.202 | 0 | 8220 | 86973 | 0 |
| | Se | 82 | 51.002 | ug/L | 0.433 | 0 | -6 | 7544 | 0 |
| | Se | 78 | 51.124 | ug/L | 0.810 | 1 | 8331 | 26951 | 0 |
| [| Mo | 98 | 50.712 | ug/L | 0.156 | 0 | 186 | 272818 | 0 |
| | Y | 89 | | ug/L | | | 239284 | 233484 | 0 |
| | Kr | 83 | | ug/L | | | 224 | 240 | 2 |
| > | In | 115 | | ug/L | | | 300134 | 289539 | 0 |
| [| Ag | 107 | 51.277 | ug/L | 0.783 | 1 | 48 | 501248 | 0 |
| | Cd | 111 | 51.865 | ug/L | 0.257 | 0 | 119 | 119401 | 0 |
| | Cd | 114 | 50.905 | ug/L | 0.339 | 0 | 23 | 276803 | 0 |
| | Sb | 121 | 50.953 | ug/L | 0.504 | 0 | 43 | 437497 | 0 |
| | Sb | 123 | 51.190 | ug/L | 0.635 | 1 | 30 | 328932 | 0 |
| | Ba | 135 | 51.083 | ug/L | 1.007 | 1 | 16 | 91323 | 1 |
| [| Ba | 137 | 51.561 | ug/L | 0.720 | 1 | 17 | 155597 | 0 |
| > | Tb | 159 | | ug/L | | | 301281 | 295550 | 1 |
| [| Tl | 205 | 47.686 | ug/L | 0.328 | 0 | 153 | 1015398 | 0 |
| | Pb | 208 | 51.049 | ug/L | 1.074 | 2 | 416 | 1385582 | 0 |
| | Bi | 209 | | ug/L | | | 242571 | 236814 | 0 |
| | Th | 232 | 47.991 | ug/L | 0.896 | 1 | 158 | 1588164 | 0 |
| [| U | 238 | 47.993 | ug/L | 0.761 | 1 | 22 | 1704699 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 13:39:09

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 279712 | 0 |
| [Be | 9 | 0.011 | ug/L | 0.012 | 107 | 4 | 8 | 51 |
| C | 13 | | mg/L | | | 5458 | 5374 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3141025 | 0 |
| [> Sc | 45 | | ug/L | | | 202397 | 200992 | 1 |
| V-1 | 51 | -0.040 | ug/L | 0.021 | 52 | 1385 | 1020 | 16 |
| V | 51 | -0.049 | ug/L | 0.011 | 21 | 5533 | 5048 | 0 |
| Cr | 52 | 0.013 | ug/L | 0.009 | 65 | 4562 | 4635 | 0 |
| Cr | 53 | -0.019 | ug/L | 0.023 | 123 | 1842 | 1812 | 2 |
| Mn | 55 | -0.002 | ug/L | 0.001 | 59 | 397 | 372 | 4 |
| Co | 59 | 0.000 | ug/L | 0.001 | 172 | 30 | 33 | 17 |
| [> Ge | 72 | | ug/L | | | 285210 | 284218 | 0 |
| Ni | 60 | -0.003 | ug/L | 0.004 | 131 | 49 | 42 | 21 |
| Ni | 62 | 0.015 | ug/L | 0.017 | 111 | 30 | 35 | 15 |
| Cu | 63 | -0.002 | ug/L | 0.003 | 120 | 165 | 152 | 9 |
| Cu | 65 | -0.003 | ug/L | 0.007 | 287 | 80 | 73 | 23 |
| Zn | 66 | -0.014 | ug/L | 0.007 | 51 | 143 | 120 | 10 |
| Zn | 67 | 0.070 | ug/L | 0.008 | 12 | 130 | 149 | 0 |
| Zn | 68 | 0.023 | ug/L | 0.095 | 410 | 5096 | 5105 | 1 |
| As-1 | 75 | 0.003 | ug/L | 0.013 | 439 | 416 | 419 | 4 |
| As | 75 | 0.056 | ug/L | 0.035 | 61 | 8220 | 8280 | 0 |
| Se | 82 | 0.025 | ug/L | 0.072 | 284 | -6 | -2 | 482 |
| Se | 78 | 0.236 | ug/L | 0.145 | 61 | 8331 | 8389 | 0 |
| [Mo | 98 | -0.014 | ug/L | 0.002 | 12 | 186 | 109 | 8 |
| Y | 89 | | ug/L | | | 239284 | 238199 | 0 |
| Kr | 83 | | ug/L | | | 224 | 221 | 2 |
| [> In | 115 | | ug/L | | | 300134 | 294722 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.004 | 72 | 48 | 100 | 38 |
| Cd | 111 | 0.005 | ug/L | 0.001 | 12 | 119 | 130 | 1 |
| Cd | 114 | 0.000 | ug/L | 0.000 | 92 | 23 | 24 | 5 |
| Sb | 121 | 0.015 | ug/L | 0.001 | 9 | 43 | 174 | 8 |
| Sb | 123 | 0.016 | ug/L | 0.002 | 15 | 30 | 134 | 12 |
| Ba | 135 | -0.000 | ug/L | 0.001 | 1109 | 16 | 16 | 7 |
| [Ba | 137 | 0.003 | ug/L | 0.001 | 21 | 17 | 27 | 7 |
| [> Tb | 159 | | ug/L | | | 301281 | 296342 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 159 | 153 | 166 | 14 |
| Pb | 208 | 0.003 | ug/L | 0.000 | 5 | 416 | 485 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 241779 | 0 |
| Th | 232 | 0.007 | ug/L | 0.001 | 15 | 158 | 380 | 9 |
| [U | 238 | 0.002 | ug/L | 0.001 | 37 | 22 | 97 | 28 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 13:46:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 283849 | 0 |
| [Be | 9 | 0.168 | ug/L | 0.019 | 11 | 4 | 67 | 9 |
| C | 13 | | mg/L | | | 5458 | 4392 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 3142081 | 0 |
| [> Sc | 45 | | ug/L | | | 202397 | 206042 | 0 |
| V-1 | 51 | 0.177 | ug/L | 0.033 | 18 | 1385 | 3017 | 9 |
| V | 51 | 0.125 | ug/L | 0.007 | 5 | 5533 | 6791 | 0 |
| Cr | 52 | 0.497 | ug/L | 0.011 | 2 | 4562 | 8640 | 0 |
| Cr | 53 | 0.321 | ug/L | 0.078 | 24 | 1842 | 2183 | 3 |
| Mn | 55 | 0.500 | ug/L | 0.004 | 0 | 397 | 7082 | 0 |
| Co | 59 | 0.205 | ug/L | 0.004 | 1 | 30 | 2155 | 1 |
| [> Ge | 72 | | ug/L | | | 285210 | 291200 | 0 |
| Ni | 60 | 0.481 | ug/L | 0.006 | 1 | 49 | 1140 | 1 |
| Ni | 62 | 0.554 | ug/L | 0.039 | 7 | 30 | 220 | 5 |
| Cu | 63 | 0.516 | ug/L | 0.015 | 2 | 165 | 2886 | 2 |
| Cu | 65 | 0.511 | ug/L | 0.003 | 0 | 80 | 1375 | 0 |
| Zn | 66 | 3.971 | ug/L | 0.048 | 1 | 143 | 6840 | 1 |
| Zn | 67 | 3.624 | ug/L | 0.141 | 3 | 130 | 1148 | 3 |
| Zn | 68 | 3.877 | ug/L | 0.113 | 2 | 5096 | 9827 | 1 |
| As-1 | 75 | 0.195 | ug/L | 0.008 | 4 | 416 | 742 | 1 |
| As | 75 | 0.106 | ug/L | 0.011 | 10 | 8220 | 8564 | 0 |
| Se | 82 | 0.480 | ug/L | 0.025 | 5 | -6 | 67 | 6 |
| Se | 78 | 0.108 | ug/L | 0.011 | 10 | 8331 | 8546 | 0 |
| Mo | 98 | 0.180 | ug/L | 0.004 | 2 | 186 | 1189 | 1 |
| Y | 89 | | ug/L | | | 239284 | 243058 | 0 |
| Kr | 83 | | ug/L | | | 224 | 229 | 1 |
| [> In | 115 | | ug/L | | | 300134 | 303487 | 1 |
| Ag | 107 | 0.196 | ug/L | 0.008 | 4 | 48 | 2058 | 2 |
| Cd | 111 | 0.221 | ug/L | 0.011 | 4 | 119 | 653 | 5 |
| Cd | 114 | 0.202 | ug/L | 0.002 | 1 | 23 | 1173 | 2 |
| Sb | 121 | 0.199 | ug/L | 0.003 | 1 | 43 | 1834 | 0 |
| Sb | 123 | 0.207 | ug/L | 0.009 | 4 | 30 | 1424 | 2 |
| Ba | 135 | 0.506 | ug/L | 0.012 | 2 | 16 | 965 | 0 |
| Ba | 137 | 0.504 | ug/L | 0.014 | 2 | 17 | 1612 | 1 |
| [> Tb | 159 | | ug/L | | | 301281 | 300760 | 1 |
| Tl | 205 | 0.197 | ug/L | 0.003 | 1 | 153 | 4413 | 2 |
| Pb | 208 | 1.030 | ug/L | 0.013 | 1 | 416 | 28856 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 245171 | 0 |
| Th | 232 | 0.192 | ug/L | 0.003 | 1 | 158 | 6619 | 1 |
| U | 238 | 0.191 | ug/L | 0.001 | 0 | 22 | 6932 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 13:54:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 272785 | 0 |
| [Be | 9 | 0.000 | ug/L | 0.004 | 956 | 4 | 4 | 31 |
| C | 13 | | mg/L | | | 5458 | 17774 | 0 |
| Cl | 37 | | mg/L | | | 3083861 | 4636334 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 195576 | 1 |
| V-1 | 51 | -0.028 | ug/L | 0.026 | 93 | 1385 | 1098 | 19 |
| V | 51 | 0.496 | ug/L | 0.031 | 6 | 5533 | 9696 | 1 |
| Cr | 52 | 0.511 | ug/L | 0.039 | 7 | 4562 | 8310 | 2 |
| Cr | 53 | 2.095 | ug/L | 0.058 | 2 | 1842 | 3688 | 0 |
| Mn | 55 | 0.182 | ug/L | 0.006 | 3 | 397 | 2694 | 2 |
| Co | 59 | 0.032 | ug/L | 0.001 | 1 | 30 | 342 | 2 |
| > Ge | 72 | | ug/L | | | 285210 | 277461 | 0 |
| Ni | 60 | 0.369 | ug/L | 0.018 | 4 | 49 | 844 | 4 |
| Ni | 62 | 3.117 | ug/L | 0.033 | 1 | 30 | 1045 | 0 |
| Cu | 63 | 0.350 | ug/L | 0.017 | 4 | 165 | 1919 | 4 |
| Cu | 65 | 0.454 | ug/L | 0.011 | 2 | 80 | 1173 | 1 |
| Zn | 66 | 1.030 | ug/L | 0.047 | 4 | 143 | 1794 | 3 |
| Zn | 67 | 1.443 | ug/L | 0.110 | 7 | 130 | 512 | 6 |
| Zn | 68 | 0.474 | ug/L | 0.081 | 17 | 5096 | 5495 | 0 |
| As-1 | 75 | 0.022 | ug/L | 0.039 | 182 | 416 | 438 | 13 |
| As | 75 | 0.041 | ug/L | 0.017 | 40 | 8220 | 8061 | 0 |
| Se | 82 | 0.032 | ug/L | 0.104 | 323 | -6 | -1 | 1199 |
| Se | 78 | 0.189 | ug/L | 0.178 | 93 | 8331 | 8172 | 1 |
| [Mo | 98 | 451.415 | ug/L | 2.059 | 0 | 186 | 2386778 | 1 |
| Y | 89 | | ug/L | | | 239284 | 233655 | 1 |
| Kr | 83 | | ug/L | | | 224 | 228 | 3 |
| > In | 115 | | ug/L | | | 300134 | 287192 | 1 |
| Ag | 107 | 0.030 | ug/L | 0.002 | 6 | 48 | 337 | 6 |
| Cd | 111 | 0.052 | ug/L | 0.042 | 81 | 119 | 231 | 40 |
| Cd | 114 | 0.508 | ug/L | 0.018 | 3 | 23 | 2761 | 2 |
| Sb | 121 | 0.049 | ug/L | 0.004 | 8 | 43 | 455 | 9 |
| Sb | 123 | 0.046 | ug/L | 0.002 | 3 | 30 | 321 | 3 |
| Ba | 135 | 0.034 | ug/L | 0.007 | 21 | 16 | 75 | 16 |
| Ba | 137 | 0.036 | ug/L | 0.006 | 15 | 17 | 124 | 12 |
| > Tb | 159 | | ug/L | | | 301281 | 293058 | 0 |
| Tl | 205 | -0.002 | ug/L | 0.001 | 66 | 153 | 114 | 19 |
| Pb | 208 | 0.064 | ug/L | 0.004 | 5 | 416 | 2117 | 4 |
| Bi | 209 | | ug/L | | | 242571 | 229627 | 0 |
| Th | 232 | 0.016 | ug/L | 0.001 | 8 | 158 | 693 | 6 |
| [U | 238 | 0.000 | ug/L | 0.000 | 49 | 22 | 32 | 15 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:01:27

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 278853 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.009 | 109 | 4 | 7 | 44 |
| C | 13 | | mg/L | | | 5458 | 16054 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 4529520 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 197437 | 0 |
| V-1 | 51 | -0.439 | ug/L | 0.095 | 21 | 1385 | -2468 | 33 |
| V | 51 | 0.537 | ug/L | 0.029 | 5 | 5533 | 10153 | 3 |
| Cr | 52 | 20.687 | ug/L | 0.380 | 1 | 4562 | 163837 | 1 |
| Cr | 53 | 22.558 | ug/L | 0.064 | 0 | 1842 | 22550 | 0 |
| Mn | 55 | 20.268 | ug/L | 0.249 | 1 | 397 | 259840 | 1 |
| Co | 59 | 20.402 | ug/L | 0.269 | 1 | 30 | 202982 | 0 |
| > Ge | 72 | | ug/L | | | 285210 | 278629 | 1 |
| Ni | 60 | 20.162 | ug/L | 0.456 | 2 | 49 | 43749 | 1 |
| Ni | 62 | 22.917 | ug/L | 0.564 | 2 | 30 | 7535 | 1 |
| Cu | 63 | 20.054 | ug/L | 0.371 | 1 | 165 | 101223 | 1 |
| Cu | 65 | 20.436 | ug/L | 0.320 | 1 | 80 | 49605 | 0 |
| Zn | 66 | 20.464 | ug/L | 0.215 | 1 | 143 | 33150 | 0 |
| Zn | 67 | 18.984 | ug/L | 0.560 | 2 | 130 | 5212 | 2 |
| Zn | 68 | 19.565 | ug/L | 0.456 | 2 | 5096 | 27297 | 0 |
| As-1 | 75 | 20.116 | ug/L | 0.371 | 1 | 416 | 31791 | 0 |
| As | 75 | 20.244 | ug/L | 0.454 | 2 | 8220 | 39405 | 0 |
| Se | 82 | -0.008 | ug/L | 0.034 | 432 | -6 | -7 | 71 |
| Se | 78 | 0.068 | ug/L | 0.319 | 469 | 8331 | 8162 | 0 |
| Mo | 98 | 444.984 | ug/L | 3.851 | 0 | 186 | 2362510 | 0 |
| Y | 89 | | ug/L | | | 239284 | 233355 | 1 |
| Kr | 83 | | ug/L | | | 224 | 233 | 3 |
| > In | 115 | | ug/L | | | 300134 | 284863 | 0 |
| Ag | 107 | 18.603 | ug/L | 0.229 | 1 | 48 | 178956 | 1 |
| Cd | 111 | 20.492 | ug/L | 0.508 | 2 | 119 | 46480 | 2 |
| Cd | 114 | 20.781 | ug/L | 0.204 | 0 | 23 | 111189 | 0 |
| Sb | 121 | 0.048 | ug/L | 0.005 | 9 | 43 | 449 | 8 |
| Sb | 123 | 0.048 | ug/L | 0.002 | 4 | 30 | 329 | 4 |
| Ba | 135 | 0.039 | ug/L | 0.003 | 8 | 16 | 85 | 6 |
| Ba | 137 | 0.037 | ug/L | 0.004 | 9 | 17 | 127 | 8 |
| > Tb | 159 | | ug/L | | | 301281 | 293721 | 0 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 31 | 153 | 236 | 11 |
| Pb | 208 | 0.065 | ug/L | 0.001 | 0 | 416 | 2163 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 229712 | 0 |
| Th | 232 | 0.010 | ug/L | 0.001 | 7 | 158 | 497 | 5 |
| U | 238 | 0.000 | ug/L | 0.000 | 36 | 22 | 35 | 12 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LC

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:09:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 277337 | 0 |
| [Be | 9 | 0.117 | ug/L | 0.012 | 10 | 4 | 47 | 9 |
| C | 13 | | mg/L | | | 5458 | 4492 | 0 |
| Cl | 37 | | mg/L | | | 3083861 | 3072296 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 201874 | 1 |
| V-1 | 51 | 0.055 | ug/L | 0.022 | 39 | 1385 | 1873 | 11 |
| V | 51 | 0.137 | ug/L | 0.005 | 3 | 5533 | 6760 | 1 |
| Cr | 52 | 0.264 | ug/L | 0.015 | 5 | 4562 | 6628 | 1 |
| Cr | 53 | 0.505 | ug/L | 0.094 | 18 | 1842 | 2311 | 2 |
| Mn | 55 | 0.273 | ug/L | 0.008 | 2 | 397 | 3971 | 1 |
| Co | 59 | 0.106 | ug/L | 0.002 | 2 | 30 | 1107 | 3 |
| > Ge | 72 | | ug/L | | | 285210 | 284468 | 0 |
| Ni | 60 | 0.260 | ug/L | 0.013 | 4 | 49 | 624 | 3 |
| Ni | 62 | 0.296 | ug/L | 0.023 | 7 | 30 | 128 | 5 |
| Cu | 63 | 0.265 | ug/L | 0.006 | 2 | 165 | 1528 | 2 |
| Cu | 65 | 0.278 | ug/L | 0.020 | 7 | 80 | 768 | 5 |
| Zn | 66 | 2.339 | ug/L | 0.022 | 0 | 143 | 3996 | 1 |
| Zn | 67 | 2.158 | ug/L | 0.171 | 7 | 130 | 720 | 5 |
| Zn | 68 | 2.338 | ug/L | 0.165 | 7 | 5096 | 7805 | 1 |
| As-1 | 75 | 0.125 | ug/L | 0.009 | 7 | 416 | 614 | 2 |
| As | 75 | 0.119 | ug/L | 0.056 | 46 | 8220 | 8387 | 0 |
| Se | 82 | 0.198 | ug/L | 0.061 | 30 | -6 | 23 | 39 |
| Se | 78 | 0.266 | ug/L | 0.250 | 93 | 8331 | 8407 | 0 |
| Mo | 98 | 0.143 | ug/L | 0.009 | 6 | 186 | 959 | 3 |
| Y | 89 | | ug/L | | | 239284 | 237696 | 0 |
| Kr | 83 | | ug/L | | | 224 | 237 | 6 |
| > In | 115 | | ug/L | | | 300134 | 299172 | 1 |
| Ag | 107 | 0.100 | ug/L | 0.003 | 3 | 48 | 1054 | 3 |
| Cd | 111 | 0.106 | ug/L | 0.008 | 7 | 119 | 371 | 6 |
| Cd | 114 | 0.105 | ug/L | 0.001 | 1 | 23 | 613 | 0 |
| Sb | 121 | 0.098 | ug/L | 0.005 | 5 | 43 | 912 | 6 |
| Sb | 123 | 0.101 | ug/L | 0.007 | 7 | 30 | 702 | 7 |
| Ba | 135 | 0.251 | ug/L | 0.019 | 7 | 16 | 480 | 8 |
| Ba | 137 | 0.265 | ug/L | 0.010 | 3 | 17 | 842 | 4 |
| > Tb | 159 | | ug/L | | | 301281 | 300205 | 0 |
| Tl | 205 | 0.103 | ug/L | 0.001 | 1 | 153 | 2387 | 1 |
| Pb | 208 | 0.543 | ug/L | 0.003 | 0 | 416 | 15379 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 244923 | 0 |
| Th | 232 | 0.094 | ug/L | 0.001 | 1 | 158 | 3314 | 0 |
| U | 238 | 0.096 | ug/L | 0.001 | 1 | 22 | 3478 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:16:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 272726 | 0 |
| [Be | 9 | 196.921 | ug/L | 1.642 | 0 | 4 | 70969 | 1 |
| C | 13 | | mg/L | | | 5458 | 4903 | 0 |
| Cl | 37 | | mg/L | | | 3083861 | 3183395 | 1 |
| [> Sc | 45 | | ug/L | | | 202397 | 205233 | 1 |
| V-1 | 51 | 203.028 | ug/L | 2.965 | 1 | 1385 | 1836890 | 0 |
| V | 51 | 203.034 | ug/L | 2.762 | 1 | 5533 | 1873727 | 0 |
| Cr | 52 | 200.172 | ug/L | 1.562 | 0 | 4562 | 1607719 | 0 |
| Cr | 53 | 200.343 | ug/L | 1.149 | 0 | 1842 | 193452 | 0 |
| Mn | 55 | 215.237 | ug/L | 1.635 | 0 | 397 | 2864309 | 0 |
| [Co | 59 | 212.328 | ug/L | 3.619 | 1 | 30 | 2195449 | 0 |
| [> Ge | 72 | | ug/L | | | 285210 | 290254 | 0 |
| Ni | 60 | 191.418 | ug/L | 1.305 | 0 | 49 | 432315 | 0 |
| Ni | 62 | 192.531 | ug/L | 0.601 | 0 | 30 | 65739 | 0 |
| Cu | 63 | 193.274 | ug/L | 1.690 | 0 | 165 | 1014849 | 0 |
| Cu | 65 | 191.466 | ug/L | 1.765 | 0 | 80 | 483539 | 1 |
| Zn | 66 | 190.503 | ug/L | 1.972 | 1 | 143 | 320285 | 1 |
| Zn | 67 | 191.615 | ug/L | 1.026 | 0 | 130 | 53610 | 1 |
| Zn | 68 | 192.043 | ug/L | 0.823 | 0 | 5096 | 233446 | 1 |
| As-1 | 75 | 197.554 | ug/L | 0.641 | 0 | 416 | 321556 | 0 |
| As | 75 | 197.246 | ug/L | 0.759 | 0 | 8220 | 326878 | 0 |
| Se | 82 | 197.623 | ug/L | 1.886 | 0 | -6 | 30091 | 0 |
| Se | 78 | 196.245 | ug/L | 1.963 | 1 | 8331 | 82362 | 0 |
| [Mo | 98 | 203.769 | ug/L | 0.694 | 0 | 186 | 1127173 | 1 |
| Y | 89 | | ug/L | | | 239284 | 238858 | 1 |
| Kr | 83 | | ug/L | | | 224 | 250 | 1 |
| [> In | 115 | | ug/L | | | 300134 | 300173 | 1 |
| [Ag | 107 | 216.335 | ug/L | 1.601 | 0 | 48 | 2192313 | 0 |
| [Cd | 111 | 199.717 | ug/L | 2.227 | 1 | 119 | 476326 | 1 |
| [Cd | 114 | 199.413 | ug/L | 0.629 | 0 | 23 | 1124124 | 1 |
| [Sb | 121 | 202.158 | ug/L | 2.558 | 1 | 43 | 1799328 | 0 |
| [Sb | 123 | 201.954 | ug/L | 1.999 | 0 | 30 | 1345256 | 0 |
| [Ba | 135 | 200.021 | ug/L | 2.932 | 1 | 16 | 370662 | 0 |
| [Ba | 137 | 201.932 | ug/L | 1.825 | 0 | 17 | 631705 | 0 |
| [> Tb | 159 | | ug/L | | | 301281 | 300030 | 0 |
| [Tl | 205 | 205.787 | ug/L | 0.736 | 0 | 153 | 4448129 | 0 |
| [Pb | 208 | 210.299 | ug/L | 0.676 | 0 | 416 | 5794335 | 0 |
| [Bi | 209 | | ug/L | | | 242571 | 233888 | 0 |
| [Th | 232 | 208.689 | ug/L | 1.480 | 0 | 158 | 7011439 | 0 |
| [U | 238 | 208.640 | ug/L | 1.962 | 0 | 22 | 7524260 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:24:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 259422 | 0 |
| [Be | 9 | 301.045 | ug/L | 3.865 | 1 | 4 | 103193 | 0 |
| C | 13 | | mg/L | | | 5458 | 4806 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3355298 | 1 |
| > Sc | 45 | | ug/L | | | 202397 | 208231 | 0 |
| [V-1 | 51 | 336.800 | ug/L | 0.937 | 0 | 1385 | 3091112 | 0 |
| V | 51 | 329.273 | ug/L | 1.062 | 0 | 5533 | 3079913 | 0 |
| Cr | 52 | 324.570 | ug/L | 4.912 | 1 | 4562 | 2642361 | 2 |
| Cr | 53 | 302.065 | ug/L | 4.327 | 1 | 1842 | 295005 | 2 |
| Mn | 55 | 325.585 | ug/L | 2.917 | 0 | 397 | 4396172 | 1 |
| [Co | 59 | 320.549 | ug/L | 5.174 | 1 | 30 | 3363134 | 1 |
| > Ge | 72 | | ug/L | | | 285210 | 296038 | 0 |
| [Ni | 60 | 286.496 | ug/L | 1.792 | 0 | 49 | 659935 | 0 |
| Ni | 62 | 286.475 | ug/L | 1.473 | 0 | 30 | 99751 | 0 |
| Cu | 63 | 287.066 | ug/L | 1.012 | 0 | 165 | 1537386 | 0 |
| Cu | 65 | 288.168 | ug/L | 1.318 | 0 | 80 | 742202 | 0 |
| Zn | 66 | 286.904 | ug/L | 2.903 | 1 | 143 | 491928 | 1 |
| Zn | 67 | 286.665 | ug/L | 4.694 | 1 | 130 | 81738 | 2 |
| Zn | 68 | 288.713 | ug/L | 2.618 | 0 | 5096 | 355288 | 1 |
| As-1 | 75 | 294.972 | ug/L | 1.954 | 0 | 416 | 489492 | 1 |
| As | 75 | 296.223 | ug/L | 2.268 | 0 | 8220 | 496418 | 1 |
| Se | 82 | 288.727 | ug/L | 2.853 | 0 | -6 | 44845 | 1 |
| Se | 78 | 293.761 | ug/L | 3.311 | 1 | 8331 | 121455 | 1 |
| [Mo | 98 | 306.393 | ug/L | 2.268 | 0 | 186 | 1728519 | 1 |
| Y | 89 | | ug/L | | | 239284 | 237976 | 0 |
| Kr | 83 | | ug/L | | | 224 | 259 | 6 |
| > In | 115 | | ug/L | | | 300134 | 304354 | 1 |
| [Ag | 107 | 324.402 | ug/L | 1.089 | 0 | 48 | 3333232 | 1 |
| Cd | 111 | 301.851 | ug/L | 1.073 | 0 | 119 | 729891 | 2 |
| Cd | 114 | 300.236 | ug/L | 1.827 | 0 | 23 | 1716055 | 2 |
| Sb | 121 | 334.818 | ug/L | 3.740 | 1 | 43 | 3021554 | 1 |
| Sb | 123 | 336.051 | ug/L | 3.172 | 0 | 30 | 2269624 | 1 |
| Ba | 135 | 303.082 | ug/L | 3.377 | 1 | 16 | 569459 | 0 |
| [Ba | 137 | 307.234 | ug/L | 6.140 | 1 | 17 | 974327 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 301034 | 0 |
| [Tl | 205 | 305.995 | ug/L | 0.480 | 0 | 153 | 6636180 | 0 |
| Pb | 208 | 319.392 | ug/L | 1.540 | 0 | 416 | 8829348 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 224111 | 1 |
| Th | 232 | 310.398 | ug/L | 4.667 | 1 | 158 | 10463293 | 1 |
| [U | 238 | 310.174 | ug/L | 4.307 | 1 | 22 | 11223291 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:32:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 269698 | 0 |
| [Be | 9 | 50.873 | ug/L | 0.644 | 1 | 4 | 18133 | 0 |
| C | 13 | | mg/L | | | 5458 | 4852 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3404364 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 212416 | 0 |
| V-1 | 51 | 50.705 | ug/L | 0.686 | 1 | 1385 | 475941 | 1 |
| V | 51 | 50.652 | ug/L | 0.517 | 1 | 5533 | 488222 | 1 |
| Cr | 52 | 50.397 | ug/L | 0.941 | 1 | 4562 | 422531 | 1 |
| Cr | 53 | 50.253 | ug/L | 0.230 | 0 | 1842 | 51673 | 0 |
| Mn | 55 | 50.848 | ug/L | 0.521 | 1 | 397 | 700686 | 0 |
| Co | 59 | 50.470 | ug/L | 0.113 | 0 | 30 | 540220 | 0 |
| > Ge | 72 | | ug/L | | | 285210 | 299297 | 0 |
| Ni | 60 | 49.995 | ug/L | 0.448 | 0 | 49 | 116471 | 0 |
| Ni | 62 | 49.615 | ug/L | 1.023 | 2 | 30 | 17491 | 1 |
| Cu | 63 | 50.294 | ug/L | 0.269 | 0 | 165 | 272449 | 0 |
| Cu | 65 | 50.579 | ug/L | 0.524 | 1 | 80 | 131774 | 1 |
| Zn | 66 | 50.695 | ug/L | 0.332 | 0 | 143 | 87997 | 0 |
| Zn | 67 | 49.730 | ug/L | 0.088 | 0 | 130 | 14448 | 0 |
| Zn | 68 | 50.122 | ug/L | 0.220 | 0 | 5096 | 66776 | 0 |
| As-1 | 75 | 49.894 | ug/L | 0.073 | 0 | 416 | 84069 | 0 |
| As | 75 | 49.882 | ug/L | 0.199 | 0 | 8220 | 91686 | 0 |
| Se | 82 | 50.921 | ug/L | 0.203 | 0 | -6 | 7990 | 0 |
| Se | 78 | 50.812 | ug/L | 0.705 | 1 | 8331 | 28469 | 0 |
| [Mo | 98 | 50.797 | ug/L | 0.553 | 1 | 186 | 289877 | 0 |
| Y | 89 | | ug/L | | | 239284 | 244107 | 0 |
| Kr | 83 | | ug/L | | | 224 | 230 | 4 |
| > In | 115 | | ug/L | | | 300134 | 309496 | 0 |
| Ag | 107 | 50.800 | ug/L | 0.292 | 0 | 48 | 530845 | 0 |
| Cd | 111 | 51.377 | ug/L | 0.222 | 0 | 119 | 126430 | 0 |
| Cd | 114 | 50.611 | ug/L | 0.572 | 1 | 23 | 294181 | 1 |
| Sb | 121 | 51.138 | ug/L | 0.156 | 0 | 43 | 469369 | 0 |
| Sb | 123 | 51.314 | ug/L | 0.260 | 0 | 30 | 352481 | 0 |
| Ba | 135 | 50.375 | ug/L | 0.208 | 0 | 16 | 96275 | 0 |
| [Ba | 137 | 51.048 | ug/L | 0.255 | 0 | 17 | 164675 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 305205 | 0 |
| Tl | 205 | 47.407 | ug/L | 0.210 | 0 | 153 | 1042524 | 1 |
| Pb | 208 | 51.095 | ug/L | 0.178 | 0 | 416 | 1432394 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 243061 | 0 |
| Th | 232 | 47.053 | ug/L | 0.185 | 0 | 158 | 1608233 | 0 |
| [U | 238 | 47.115 | ug/L | 0.564 | 1 | 22 | 1728377 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:39:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 273416 | 0 |
| [Be | 9 | 0.006 | ug/L | 0.005 | 86 | 4 | 6 | 28 |
| C | 13 | | mg/L | | | 5458 | 5182 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3385849 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 213683 | 0 |
| V-1 | 51 | -0.008 | ug/L | 0.006 | 76 | 1385 | 1385 | 4 |
| V | 51 | -0.051 | ug/L | 0.006 | 11 | 5533 | 5357 | 0 |
| Cr | 52 | 0.009 | ug/L | 0.014 | 155 | 4562 | 4891 | 2 |
| Cr | 53 | -0.122 | ug/L | 0.034 | 27 | 1842 | 1822 | 1 |
| Mn | 55 | 0.006 | ug/L | 0.002 | 27 | 397 | 509 | 4 |
| Co | 59 | 0.003 | ug/L | 0.001 | 48 | 30 | 64 | 24 |
| > Ge | 72 | | ug/L | | | 285210 | 298576 | 0 |
| Ni | 60 | -0.001 | ug/L | 0.003 | 262 | 49 | 49 | 12 |
| Ni | 62 | 0.008 | ug/L | 0.009 | 111 | 30 | 34 | 9 |
| Cu | 63 | 0.012 | ug/L | 0.004 | 32 | 165 | 238 | 8 |
| Cu | 65 | 0.007 | ug/L | 0.005 | 66 | 80 | 102 | 12 |
| Zn | 66 | 0.031 | ug/L | 0.010 | 33 | 143 | 203 | 9 |
| Zn | 67 | 0.037 | ug/L | 0.059 | 160 | 130 | 147 | 11 |
| Zn | 68 | 0.235 | ug/L | 0.032 | 13 | 5096 | 5622 | 0 |
| As-1 | 75 | 0.033 | ug/L | 0.011 | 33 | 416 | 491 | 3 |
| As | 75 | 0.062 | ug/L | 0.004 | 6 | 8220 | 8709 | 0 |
| Se | 82 | 0.029 | ug/L | 0.016 | 54 | -6 | -1 | 149 |
| Se | 78 | 0.197 | ug/L | 0.007 | 3 | 8331 | 8798 | 0 |
| [Mo | 98 | -0.001 | ug/L | 0.002 | 385 | 186 | 191 | 7 |
| Y | 89 | | ug/L | | | 239284 | 246372 | 0 |
| Kr | 83 | | ug/L | | | 224 | 241 | 4 |
| > In | 115 | | ug/L | | | 300134 | 314157 | 0 |
| Ag | 107 | 0.018 | ug/L | 0.001 | 3 | 48 | 236 | 3 |
| Cd | 111 | 0.010 | ug/L | 0.003 | 31 | 119 | 150 | 4 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 81 | 23 | 34 | 24 |
| Sb | 121 | 0.075 | ug/L | 0.008 | 10 | 43 | 743 | 10 |
| Sb | 123 | 0.077 | ug/L | 0.009 | 12 | 30 | 565 | 11 |
| Ba | 135 | 0.008 | ug/L | 0.003 | 37 | 16 | 32 | 16 |
| [Ba | 137 | 0.012 | ug/L | 0.000 | 3 | 17 | 56 | 3 |
| > Tb | 159 | | ug/L | | | 301281 | 305596 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.002 | 56 | 153 | 222 | 17 |
| Pb | 208 | 0.005 | ug/L | 0.001 | 16 | 416 | 561 | 3 |
| Bi | 209 | | ug/L | | | 242571 | 245954 | 0 |
| Th | 232 | 0.021 | ug/L | 0.004 | 18 | 158 | 885 | 14 |
| [U | 238 | 0.004 | ug/L | 0.002 | 44 | 22 | 161 | 37 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B-L REN *22222*

Sample Dil Factor: 25

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:47:19 *00331*

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 278103 | 1 |
| [Be | 9 | 0.016 | ug/L | 0.014 | 87 | 4 | 10 | 49 |
| C | 13 | | mg/L | | | 5458 | 4385 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 3383809 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 223285 | 0 |
| V-1 | 51 | 1.134 | ug/L | 0.001 | 0 | 1385 | 12687 | 0 |
| V | 51 | 1.063 | ug/L | 0.009 | 0 | 5533 | 16741 | 0 |
| Cr | 52 | 0.302 | ug/L | 0.008 | 2 | 4562 | 7664 | 1 |
| Cr | 53 | 0.126 | ug/L | 0.030 | 24 | 1842 | 2162 | 0 |
| Mn | 55 | 45.915 | ug/L | 0.192 | 0 | 397 | 665144 | 0 |
| [Co | 59 | 0.082 | ug/L | 0.004 | 5 | 30 | 958 | 5 |
| > Ge | 72 | | ug/L | | | 285210 | 306364 | 0 |
| Ni | 60 | 0.126 | ug/L | 0.004 | 3 | 49 | 353 | 2 |
| Ni | 62 | 0.200 | ug/L | 0.023 | 11 | 30 | 104 | 7 |
| Cu | 63 | 0.152 | ug/L | 0.005 | 3 | 165 | 1017 | 3 |
| Cu | 65 | 0.082 | ug/L | 0.005 | 6 | 80 | 305 | 4 |
| Zn | 66 | 0.512 | ug/L | 0.035 | 6 | 143 | 1062 | 5 |
| Zn | 67 | 0.509 | ug/L | 0.050 | 9 | 130 | 290 | 4 |
| Zn | 68 | 0.602 | ug/L | 0.150 | 24 | 5096 | 6229 | 3 |
| As-1 | 75 | 0.179 | ug/L | 0.013 | 7 | 416 | 753 | 2 |
| As | 75 | 0.071 | ug/L | 0.018 | 25 | 8220 | 8951 | 0 |
| Se | 82 | 0.078 | ug/L | 0.111 | 141 | -6 | 6 | 291 |
| Se | 78 | -0.447 | ug/L | 0.077 | 17 | 8331 | 8771 | 0 |
| [Mo | 98 | 0.170 | ug/L | 0.005 | 3 | 186 | 1194 | 2 |
| Y | 89 | | ug/L | | | 239284 | 254122 | 0 |
| Kr | 83 | | ug/L | | | 224 | 231 | 4 |
| > In | 115 | | ug/L | | | 300134 | 319548 | 0 |
| Ag | 107 | 0.009 | ug/L | 0.001 | 11 | 48 | 147 | 6 |
| Cd | 111 | 0.004 | ug/L | 0.004 | 105 | 119 | 136 | 6 |
| Cd | 114 | 0.003 | ug/L | 0.002 | 76 | 23 | 40 | 29 |
| Sb | 121 | 0.042 | ug/L | 0.002 | 4 | 43 | 445 | 3 |
| Sb | 123 | 0.042 | ug/L | 0.005 | 12 | 30 | 326 | 10 |
| Ba | 135 | 1.255 | ug/L | 0.033 | 2 | 16 | 2493 | 2 |
| [Ba | 137 | 1.288 | ug/L | 0.008 | 0 | 17 | 4308 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 312771 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.000 | 11 | 153 | 198 | 2 |
| Pb | 208 | 0.026 | ug/L | 0.001 | 4 | 416 | 1170 | 2 |
| Bi | 209 | | ug/L | | | 242571 | 252876 | 1 |
| Th | 232 | 0.016 | ug/L | 0.001 | 5 | 158 | 707 | 3 |
| [U | 238 | 0.004 | ug/L | 0.001 | 12 | 22 | 169 | 11 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 14:54:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

REN

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 274135 | 1 |
| [Be | 9 | 0.027 | ug/L | 0.005 | 19 | 4 | 14 | 13 |
| C | 13 | | mg/L | | | 5458 | 5470 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 3445745 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 245456 | 1 |
| V-1 | 51 | 5.280 | ug/L | 0.061 | 1 | 1385 | 58770 | 0 |
| V | 51 | 5.136 | ug/L | 0.052 | 1 | 5533 | 63231 | 0 |
| Cr | 52 | 1.418 | ug/L | 0.017 | 1 | 4562 | 19114 | 0 |
| Cr | 53 | 1.183 | ug/L | 0.032 | 2 | 1842 | 3586 | 1 |
| Mn | 55 | 225.700 | ug/L | 2.033 | 0 | 397 | 3592192 | 0 |
| [Co | 59 | 0.394 | ug/L | 0.008 | 1 | 30 | 4912 | 0 |
| > Ge | 72 | | ug/L | | | 285210 | 315334 | 1 |
| Ni | 60 | 0.574 | ug/L | 0.015 | 2 | 49 | 1464 | 3 |
| Ni | 62 | 0.837 | ug/L | 0.066 | 7 | 30 | 343 | 8 |
| Cu | 63 | 0.655 | ug/L | 0.016 | 2 | 165 | 3919 | 2 |
| Cu | 65 | 0.296 | ug/L | 0.009 | 3 | 80 | 900 | 2 |
| Zn | 66 | 1.854 | ug/L | 0.015 | 0 | 143 | 3544 | 1 |
| Zn | 67 | 2.181 | ug/L | 0.147 | 6 | 130 | 805 | 4 |
| Zn | 68 | 2.132 | ug/L | 0.072 | 3 | 5096 | 8386 | 1 |
| As-1 | 75 | 0.825 | ug/L | 0.019 | 2 | 416 | 1918 | 1 |
| As | 75 | 0.632 | ug/L | 0.030 | 4 | 8220 | 10197 | 0 |
| Se | 82 | 0.146 | ug/L | 0.051 | 35 | -6 | 17 | 48 |
| Se | 78 | -0.733 | ug/L | 0.105 | 14 | 8331 | 8910 | 0 |
| [Mo | 98 | 0.909 | ug/L | 0.023 | 2 | 186 | 5667 | 1 |
| Y | 89 | | ug/L | | | 239284 | 272064 | 0 |
| Kr | 83 | | ug/L | | | 224 | 242 | 1 |
| > In | 115 | | ug/L | | | 300134 | 326549 | 0 |
| Ag | 107 | 0.013 | ug/L | 0.001 | 9 | 48 | 200 | 7 |
| Cd | 111 | 0.003 | ug/L | 0.020 | 688 | 119 | 137 | 37 |
| Cd | 114 | 0.004 | ug/L | 0.002 | 38 | 23 | 51 | 19 |
| Sb | 121 | 0.045 | ug/L | 0.002 | 5 | 43 | 478 | 4 |
| Sb | 123 | 0.044 | ug/L | 0.003 | 6 | 30 | 349 | 6 |
| Ba | 135 | 6.144 | ug/L | 0.014 | 0 | 16 | 12405 | 0 |
| [Ba | 137 | 6.143 | ug/L | 0.075 | 1 | 17 | 20924 | 1 |
| > Tb | 159 | | ug/L | | | 301281 | 317843 | 0 |
| Tl | 205 | 0.002 | ug/L | 0.002 | 73 | 153 | 210 | 16 |
| Pb | 208 | 0.073 | ug/L | 0.003 | 3 | 416 | 2576 | 2 |
| Bi | 209 | | ug/L | | | 242571 | 250213 | 0 |
| Th | 232 | 0.046 | ug/L | 0.002 | 4 | 158 | 1794 | 4 |
| [U | 238 | 0.013 | ug/L | 0.000 | 3 | 22 | 511 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BDUP REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:00:58

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\033110B.cal

renu

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 275797 | 0 |
| [Be | 9 | 0.021 | ug/L | 0.008 | 40 | 4 | 12 | 26 |
| C | 13 | | mg/L | | | 5458 | 5390 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 3380312 | 1 |
| [> Sc | 45 | | ug/L | | | 202397 | 245477 | 2 |
| V-1 | 51 | 5.019 | ug/L | 0.052 | 1 | 1385 | 55953 | 1 |
| V | 51 | 4.870 | ug/L | 0.036 | 0 | 5533 | 60315 | 1 |
| Cr | 52 | 1.321 | ug/L | 0.032 | 2 | 4562 | 18185 | 1 |
| Cr | 53 | 1.063 | ug/L | 0.043 | 4 | 1842 | 3450 | 3 |
| Mn | 55 | 214.226 | ug/L | 1.589 | 0 | 397 | 3409923 | 1 |
| [Co | 59 | 0.380 | ug/L | 0.010 | 2 | 30 | 4732 | 3 |
| [> Ge | 72 | | ug/L | | | 285210 | 314434 | 0 |
| Ni | 60 | 0.546 | ug/L | 0.045 | 8 | 49 | 1390 | 7 |
| Ni | 62 | 0.792 | ug/L | 0.032 | 4 | 30 | 325 | 3 |
| Cu | 63 | 0.602 | ug/L | 0.009 | 1 | 165 | 3603 | 1 |
| Cu | 65 | 0.276 | ug/L | 0.014 | 4 | 80 | 843 | 4 |
| Zn | 66 | 1.526 | ug/L | 0.027 | 1 | 143 | 2935 | 1 |
| Zn | 67 | 1.788 | ug/L | 0.125 | 7 | 130 | 684 | 5 |
| Zn | 68 | 1.886 | ug/L | 0.065 | 3 | 5096 | 8046 | 0 |
| As-1 | 75 | 0.784 | ug/L | 0.028 | 3 | 416 | 1839 | 2 |
| As | 75 | 0.571 | ug/L | 0.038 | 6 | 8220 | 10061 | 0 |
| Se | 82 | 0.214 | ug/L | 0.078 | 36 | -6 | 28 | 44 |
| Se | 78 | -0.781 | ug/L | 0.175 | 22 | 8331 | 8866 | 0 |
| [Mo | 98 | 0.839 | ug/L | 0.005 | 0 | 186 | 5229 | 0 |
| Y | 89 | | ug/L | | | 239284 | 275786 | 0 |
| Kr | 83 | | ug/L | | | 224 | 236 | 2 |
| [> In | 115 | | ug/L | | | 300134 | 328456 | 0 |
| Ag | 107 | 0.009 | ug/L | 0.002 | 20 | 48 | 150 | 12 |
| Cd | 111 | 0.011 | ug/L | 0.018 | 160 | 119 | 161 | 30 |
| Cd | 114 | 0.005 | ug/L | 0.002 | 35 | 23 | 53 | 19 |
| Sb | 121 | 0.033 | ug/L | 0.002 | 5 | 43 | 368 | 5 |
| Sb | 123 | 0.034 | ug/L | 0.003 | 7 | 30 | 284 | 7 |
| Ba | 135 | 5.725 | ug/L | 0.223 | 3 | 16 | 11625 | 2 |
| [Ba | 137 | 5.794 | ug/L | 0.032 | 0 | 17 | 19854 | 0 |
| [> Tb | 159 | | ug/L | | | 301281 | 318798 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 37 | 153 | 195 | 6 |
| Pb | 208 | 0.049 | ug/L | 0.002 | 4 | 416 | 1870 | 3 |
| Bi | 209 | | ug/L | | | 242571 | 248187 | 0 |
| Th | 232 | 0.035 | ug/L | 0.003 | 8 | 158 | 1429 | 7 |
| [U | 238 | 0.012 | ug/L | 0.000 | 1 | 22 | 492 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BSPK REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:07:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 266845 | 1 |
| [Be | 9 | 11.008 | ug/L | 0.333 | 3 | 4 | 3884 | 2 |
| C | 13 | | mg/L | | | 5458 | 5479 | 2 |
| [Cl | 37 | | mg/L | | | 3083861 | 3370035 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 240299 | 1 |
| [V-1 | 51 | 15.993 | ug/L | 0.037 | 0 | 1385 | 170962 | 1 |
| V | 51 | 15.794 | ug/L | 0.017 | 0 | 5533 | 176742 | 1 |
| [Cr | 52 | 11.952 | ug/L | 0.114 | 0 | 4562 | 117483 | 0 |
| Cr | 53 | 11.555 | ug/L | 0.186 | 1 | 1842 | 15124 | 0 |
| [Mn | 55 | 238.671 | ug/L | 1.489 | 0 | 397 | 3718897 | 1 |
| [Co | 59 | 10.970 | ug/L | 0.028 | 0 | 30 | 132862 | 1 |
| > Ge | 72 | | ug/L | | | 285210 | 310911 | 1 |
| [Ni | 60 | 11.792 | ug/L | 0.085 | 0 | 49 | 28576 | 1 |
| Ni | 62 | 11.943 | ug/L | 0.279 | 2 | 30 | 4397 | 0 |
| [Cu | 63 | 11.978 | ug/L | 0.204 | 1 | 165 | 67527 | 0 |
| Cu | 65 | 11.615 | ug/L | 0.096 | 0 | 80 | 31499 | 1 |
| [Zn | 66 | 39.288 | ug/L | 0.731 | 1 | 143 | 70865 | 0 |
| Zn | 67 | 36.713 | ug/L | 0.151 | 0 | 130 | 11117 | 1 |
| Zn | 68 | 38.710 | ug/L | 0.507 | 1 | 5096 | 54832 | 0 |
| [As-1 | 75 | 12.178 | ug/L | 0.346 | 2 | 416 | 21652 | 1 |
| As | 75 | 11.908 | ug/L | 0.239 | 2 | 8220 | 29554 | 0 |
| [Se | 82 | 34.930 | ug/L | 1.135 | 3 | -6 | 5690 | 1 |
| Se | 78 | 34.424 | ug/L | 0.761 | 2 | 8331 | 22961 | 0 |
| [Mo | 98 | 0.900 | ug/L | 0.029 | 3 | 186 | 5533 | 1 |
| Y | 89 | | ug/L | | | 239284 | 271337 | 1 |
| [Kr | 83 | | ug/L | | | 224 | 250 | 2 |
| > In | 115 | | ug/L | | | 300134 | 322226 | 1 |
| [Ag | 107 | 6.695 | ug/L | 0.043 | 0 | 48 | 72874 | 0 |
| Cd | 111 | 11.341 | ug/L | 0.161 | 1 | 119 | 29159 | 2 |
| [Cd | 114 | 11.386 | ug/L | 0.183 | 1 | 23 | 68916 | 0 |
| Sb | 121 | 0.035 | ug/L | 0.001 | 2 | 43 | 384 | 0 |
| [Sb | 123 | 0.036 | ug/L | 0.003 | 9 | 30 | 292 | 7 |
| Ba | 135 | 17.691 | ug/L | 0.218 | 1 | 16 | 35213 | 2 |
| [Ba | 137 | 17.779 | ug/L | 0.112 | 0 | 17 | 59724 | 1 |
| > Tb | 159 | | ug/L | | | 301281 | 312846 | 1 |
| [Tl | 205 | 10.476 | ug/L | 0.144 | 1 | 153 | 236249 | 1 |
| Pb | 208 | 11.422 | ug/L | 0.031 | 0 | 416 | 328548 | 1 |
| [Bi | 209 | | ug/L | | | 242571 | 245526 | 0 |
| Th | 232 | 10.790 | ug/L | 0.011 | 0 | 158 | 378152 | 1 |
| [U | 238 | 10.753 | ug/L | 0.081 | 0 | 22 | 404368 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:14:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 243721 | 1 |
| [Be | 9 | 0.124 | ug/L | 0.019 | 15 | 4 | 43 | 12 |
| C | 13 | | mg/L | | | 5458 | 7361 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 4059389 | 1 |
| [> Sc | 45 | | ug/L | | | 202397 | 256504 | 1 |
| V-1 | 51 | 43.103 | ug/L | 0.312 | 0 | 1385 | 488809 | 0 |
| V | 51 | 42.618 | ug/L | 0.269 | 0 | 5533 | 497126 | 0 |
| Cr | 52 | 9.429 | ug/L | 0.030 | 0 | 4562 | 100168 | 1 |
| Cr | 53 | 9.741 | ug/L | 0.194 | 1 | 1842 | 13978 | 2 |
| Mn | 55 | 143.017 | ug/L | 0.830 | 0 | 397 | 2378893 | 0 |
| [Co | 59 | 0.346 | ug/L | 0.005 | 1 | 30 | 4504 | 1 |
| [> Ge | 72 | | ug/L | | | 285210 | 320873 | 1 |
| Ni | 60 | 0.896 | ug/L | 0.021 | 2 | 49 | 2291 | 1 |
| Ni | 62 | 3.002 | ug/L | 0.419 | 13 | 30 | 1167 | 14 |
| Cu | 63 | 1.935 | ug/L | 0.006 | 0 | 165 | 11419 | 1 |
| Cu | 65 | 0.528 | ug/L | 0.008 | 1 | 80 | 1565 | 2 |
| Zn | 66 | 4.096 | ug/L | 0.062 | 1 | 143 | 7770 | 1 |
| Zn | 67 | 6.761 | ug/L | 0.170 | 2 | 130 | 2232 | 2 |
| Zn | 68 | 4.482 | ug/L | 0.109 | 2 | 5096 | 11622 | 0 |
| As-1 | 75 | 3.341 | ug/L | 0.013 | 0 | 416 | 6473 | 1 |
| As | 75 | 3.123 | ug/L | 0.026 | 0 | 8220 | 14823 | 0 |
| Se | 82 | 0.743 | ug/L | 0.087 | 11 | -6 | 118 | 12 |
| Se | 78 | -0.198 | ug/L | 0.037 | 18 | 8331 | 9290 | 1 |
| [Mo | 98 | 0.583 | ug/L | 0.004 | 0 | 186 | 3770 | 1 |
| Y | 89 | | ug/L | | | 239284 | 344092 | 0 |
| Kr | 83 | | ug/L | | | 224 | 263 | 4 |
| [> In | 115 | | ug/L | | | 300134 | 332893 | 1 |
| Ag | 107 | 0.025 | ug/L | 0.002 | 8 | 48 | 331 | 6 |
| Cd | 111 | 0.062 | ug/L | 0.010 | 15 | 119 | 297 | 9 |
| Cd | 114 | 0.003 | ug/L | 0.002 | 49 | 23 | 45 | 22 |
| Sb | 121 | 0.048 | ug/L | 0.001 | 2 | 43 | 522 | 3 |
| Sb | 123 | 0.051 | ug/L | 0.002 | 4 | 30 | 412 | 5 |
| Ba | 135 | 5.848 | ug/L | 0.049 | 0 | 16 | 12039 | 2 |
| Ba | 137 | 5.841 | ug/L | 0.118 | 2 | 17 | 20279 | 0 |
| [> Tb | 159 | | ug/L | | | 301281 | 318316 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.001 | 528 | 153 | 165 | 10 |
| Pb | 208 | 0.057 | ug/L | 0.001 | 1 | 416 | 2108 | 1 |
| Bi | 209 | | ug/L | | | 242571 | 240454 | 1 |
| Th | 232 | 0.086 | ug/L | 0.002 | 1 | 158 | 3243 | 1 |
| [U | 238 | 0.018 | ug/L | 0.000 | 1 | 22 | 724 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:21:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

REN

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 226003 | 0 |
| [Be | 9 | 0.096 | ug/L | 0.022 | 23 | 4 | 32 | 21 |
| C | 13 | | mg/L | | | 5458 | 6977 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 4170136 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 268590 | 1 |
| V-1 | 51 | 41.947 | ug/L | 0.328 | 0 | 1385 | 498196 | 2 |
| V | 51 | 41.439 | ug/L | 0.307 | 0 | 5533 | 506385 | 2 |
| Cr | 52 | 8.900 | ug/L | 0.153 | 1 | 4562 | 99323 | 0 |
| Cr | 53 | 9.109 | ug/L | 0.176 | 1 | 1842 | 13842 | 0 |
| Mn | 55 | 140.694 | ug/L | 1.032 | 0 | 397 | 2450408 | 1 |
| Co | 59 | 0.344 | ug/L | 0.005 | 1 | 30 | 4692 | 1 |
| > Ge | 72 | | ug/L | | | 285210 | 334317 | 1 |
| Ni | 60 | 0.792 | ug/L | 0.034 | 4 | 49 | 2117 | 3 |
| Ni | 62 | 4.078 | ug/L | 0.536 | 13 | 30 | 1637 | 12 |
| Cu | 63 | 2.007 | ug/L | 0.059 | 2 | 165 | 12331 | 2 |
| Cu | 65 | 0.560 | ug/L | 0.007 | 1 | 80 | 1722 | 1 |
| Zn | 66 | 3.303 | ug/L | 0.054 | 1 | 143 | 6560 | 0 |
| Zn | 67 | 5.900 | ug/L | 0.133 | 2 | 130 | 2049 | 1 |
| Zn | 68 | 3.529 | ug/L | 0.081 | 2 | 5096 | 10804 | 0 |
| As-1 | 75 | 3.158 | ug/L | 0.031 | 0 | 416 | 6400 | 1 |
| As | 75 | 2.903 | ug/L | 0.080 | 2 | 8220 | 15034 | 0 |
| Se | 82 | 0.634 | ug/L | 0.110 | 17 | -6 | 104 | 17 |
| Se | 78 | -0.513 | ug/L | 0.333 | 64 | 8331 | 9542 | 0 |
| Mo | 98 | 0.605 | ug/L | 0.005 | 0 | 186 | 4072 | 1 |
| Y | 89 | | ug/L | | | 239284 | 353472 | 2 |
| Kr | 83 | | ug/L | | | 224 | 266 | 3 |
| > In | 115 | | ug/L | | | 300134 | 353871 | 0 |
| Ag | 107 | 0.025 | ug/L | 0.002 | 6 | 48 | 353 | 5 |
| Cd | 111 | 0.032 | ug/L | 0.085 | 269 | 119 | 230 | 104 |
| Cd | 114 | 0.003 | ug/L | 0.000 | 15 | 23 | 45 | 5 |
| Sb | 121 | 0.045 | ug/L | 0.003 | 6 | 43 | 528 | 5 |
| Sb | 123 | 0.047 | ug/L | 0.002 | 3 | 30 | 406 | 3 |
| Ba | 135 | 5.479 | ug/L | 0.066 | 1 | 16 | 11989 | 1 |
| Ba | 137 | 5.524 | ug/L | 0.114 | 2 | 17 | 20394 | 1 |
| > Tb | 159 | | ug/L | | | 301281 | 332110 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 47 | 153 | 141 | 9 |
| Pb | 208 | 0.060 | ug/L | 0.002 | 4 | 416 | 2287 | 3 |
| Bi | 209 | | ug/L | | | 242571 | 246625 | 0 |
| Th | 232 | 0.078 | ug/L | 0.002 | 2 | 158 | 3082 | 1 |
| U | 238 | 0.019 | ug/L | 0.000 | 2 | 22 | 777 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 F REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:28:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 216143 | 1 |
| [Be | 9 | 0.037 | ug/L | 0.006 | 16 | 4 | 14 | 13 |
| C | 13 | | mg/L | | | 5458 | 5251 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3630705 | 1 |
| > Sc | 45 | | ug/L | | | 202397 | 264520 | 1 |
| V-1 | 51 | 7.590 | ug/L | 0.035 | 0 | 1385 | 90256 | 1 |
| V | 51 | 7.413 | ug/L | 0.031 | 0 | 5533 | 95150 | 0 |
| Cr | 52 | 2.008 | ug/L | 0.025 | 1 | 4562 | 26695 | 0 |
| Cr | 53 | 1.764 | ug/L | 0.093 | 5 | 1842 | 4581 | 1 |
| Mn | 55 | 273.962 | ug/L | 1.861 | 0 | 397 | 4699219 | 1 |
| [Co | 59 | 0.425 | ug/L | 0.007 | 1 | 30 | 5698 | 1 |
| > Ge | 72 | | ug/L | | | 285210 | 342005 | 1 |
| Ni | 60 | 2.180 | ug/L | 0.057 | 2 | 49 | 5858 | 1 |
| Ni | 62 | 3.055 | ug/L | 0.083 | 2 | 30 | 1264 | 1 |
| Cu | 63 | 0.617 | ug/L | 0.009 | 1 | 165 | 4015 | 0 |
| Cu | 65 | 0.217 | ug/L | 0.005 | 2 | 80 | 740 | 1 |
| Zn | 66 | 10.595 | ug/L | 0.088 | 0 | 143 | 21150 | 0 |
| Zn | 67 | 10.578 | ug/L | 0.053 | 0 | 130 | 3634 | 1 |
| Zn | 68 | 10.908 | ug/L | 0.179 | 1 | 5096 | 21385 | 0 |
| As-1 | 75 | 5.594 | ug/L | 0.027 | 0 | 416 | 11214 | 0 |
| As | 75 | 5.297 | ug/L | 0.118 | 2 | 8220 | 19934 | 0 |
| Se | 82 | 0.199 | ug/L | 0.001 | 0 | -6 | 28 | 1 |
| Se | 78 | -1.267 | ug/L | 0.431 | 33 | 8331 | 9426 | 0 |
| [Mo | 98 | 0.730 | ug/L | 0.010 | 1 | 186 | 4977 | 1 |
| Y | 89 | | ug/L | | | 239284 | 290433 | 0 |
| Kr | 83 | | ug/L | | | 224 | 261 | 1 |
| > In | 115 | | ug/L | | | 300134 | 361517 | 1 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 18 | 48 | 134 | 11 |
| Cd | 111 | -0.006 | ug/L | 0.025 | 449 | 119 | 127 | 55 |
| Cd | 114 | 0.003 | ug/L | 0.000 | 11 | 23 | 47 | 5 |
| Sb | 121 | 0.022 | ug/L | 0.002 | 9 | 43 | 284 | 6 |
| Sb | 123 | 0.022 | ug/L | 0.003 | 14 | 30 | 215 | 10 |
| Ba | 135 | 8.020 | ug/L | 0.100 | 1 | 16 | 17918 | 0 |
| [Ba | 137 | 8.167 | ug/L | 0.135 | 1 | 17 | 30790 | 1 |
| > Tb | 159 | | ug/L | | | 301281 | 335930 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.001 | 314 | 153 | 181 | 16 |
| Pb | 208 | 0.023 | ug/L | 0.001 | 3 | 416 | 1165 | 1 |
| Bi | 209 | | ug/L | | | 242571 | 255255 | 1 |
| Th | 232 | 0.017 | ug/L | 0.000 | 1 | 158 | 818 | 0 |
| [U | 238 | 0.006 | ug/L | 0.000 | 0 | 22 | 282 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:35:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

AS
cenu

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 282102 | 213302 | 3 |
| [Be | 9 | 0.013 | ug/L | 0.006 | 47 | 4 | 7 | 26 |
| C | 13 | | mg/L | | | 5458 | 8004 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 27917036 | 2 |
| [> Sc | 45 | | ug/L | | | 202397 | 255156 | 4 |
| V-1 | 51 | 0.051 | ug/L | 0.273 | 532 | 1385 | 2407 | 128 |
| V | 51 | 8.595 | ug/L | 0.148 | 1 | 5533 | 105258 | 2 |
| Cr | 52 | 0.854 | ug/L | 0.059 | 6 | 4562 | 14243 | 1 |
| Cr | 53 | 27.102 | ug/L | 1.298 | 4 | 1842 | 34500 | 0 |
| Mn | 55 | 247.624 | ug/L | 2.249 | 0 | 397 | 4096053 | 3 |
| Co | 59 | 0.595 | ug/L | 0.006 | 1 | 30 | 7685 | 4 |
| [> Ge | 72 | | ug/L | | | 285210 | 308280 | 3 |
| Ni | 60 | 1.820 | ug/L | 0.097 | 5 | 49 | 4423 | 8 |
| Ni | 62 | 81.629 | ug/L | 37.590 | 46 | 30 | 29919 | 49 |
| Cu | 63 | 21.086 | ug/L | 4.024 | 19 | 165 | 118245 | 22 |
| Cu | 65 | 0.589 | ug/L | 0.032 | 5 | 80 | 1666 | 7 |
| Zn | 66 | 1.352 | ug/L | 0.016 | 1 | 143 | 2567 | 3 |
| Zn | 67 | 3.736 | ug/L | 0.349 | 9 | 130 | 1250 | 11 |
| Zn | 68 | 3.270 | ug/L | 0.199 | 6 | 5096 | 9631 | 1 |
| As-1 | 75 | 1.746 | ug/L | 0.067 | 3 | 416 | 3464 | 4 |
| As | 75 | 0.517 | ug/L | 0.133 | 25 | 8220 | 9768 | 2 |
| Se | 82 | 5.863 | ug/L | 0.282 | 4 | -6 | 940 | 1 |
| Se | 78 | 2.734 | ug/L | 0.335 | 12 | 8331 | 10095 | 1 |
| Mo | 98 | -0.006 | ug/L | 0.003 | 50 | 186 | 164 | 13 |
| Y | 89 | | ug/L | | | 239284 | 270931 | 4 |
| Kr | 83 | | ug/L | | | 224 | 562 | 11 |
| [> In | 115 | | ug/L | | | 300134 | 343869 | 2 |
| Ag | 107 | 0.023 | ug/L | 0.004 | 17 | 48 | 327 | 15 |
| Cd | 111 | -1.422 | ug/L | 0.269 | 18 | 119 | -3752 | 20 |
| Cd | 114 | 0.005 | ug/L | 0.002 | 47 | 23 | 56 | 22 |
| Sb | 121 | 0.057 | ug/L | 0.000 | 0 | 43 | 633 | 2 |
| Sb | 123 | 0.060 | ug/L | 0.003 | 4 | 30 | 495 | 2 |
| Ba | 135 | 56.708 | ug/L | 0.497 | 0 | 16 | 120419 | 2 |
| Ba | 137 | 56.581 | ug/L | 0.834 | 1 | 17 | 202835 | 3 |
| [> Tb | 159 | | ug/L | | | 301281 | 305745 | 2 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 64 | 153 | 125 | 13 |
| Pb | 208 | 0.040 | ug/L | 0.006 | 14 | 416 | 1546 | 7 |
| Bi | 209 | | ug/L | | | 242571 | 199255 | 2 |
| Th | 232 | 0.006 | ug/L | 0.001 | 9 | 158 | 353 | 6 |
| U | 238 | 0.003 | ug/L | 0.001 | 19 | 22 | 135 | 14 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:41:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 200581 | 0 |
| [Be | 9 | 0.019 | ug/L | 0.015 | 76 | 4 | 8 | 45 |
| C | 13 | | mg/L | | | 5458 | 6284 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 8218980 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 269794 | 0 |
| V-1 | 51 | 1.700 | ug/L | 0.059 | 3 | 1385 | 22054 | 3 |
| V | 51 | 4.444 | ug/L | 0.094 | 2 | 5533 | 61129 | 1 |
| Cr | 52 | 0.758 | ug/L | 0.005 | 0 | 4562 | 14066 | 1 |
| Cr | 53 | 9.252 | ug/L | 0.231 | 2 | 1842 | 14085 | 1 |
| Mn | 55 | 480.781 | ug/L | 1.201 | 0 | 397 | 8410691 | 0 |
| [Co | 59 | 0.650 | ug/L | 0.004 | 0 | 30 | 8883 | 1 |
| > Ge | 72 | | ug/L | | | 285210 | 340022 | 0 |
| Ni | 60 | 3.316 | ug/L | 0.015 | 0 | 49 | 8830 | 1 |
| Ni | 62 | 52.994 | ug/L | 1.020 | 1 | 30 | 21222 | 1 |
| Cu | 63 | 6.268 | ug/L | 0.063 | 1 | 165 | 38747 | 0 |
| Cu | 65 | 0.375 | ug/L | 0.014 | 3 | 80 | 1203 | 3 |
| Zn | 66 | 8.874 | ug/L | 0.187 | 2 | 143 | 17639 | 1 |
| Zn | 67 | 9.298 | ug/L | 0.228 | 2 | 130 | 3195 | 1 |
| Zn | 68 | 9.631 | ug/L | 0.118 | 1 | 5096 | 19486 | 1 |
| As-1 | 75 | 0.786 | ug/L | 0.067 | 8 | 416 | 1993 | 5 |
| As | 75 | 0.166 | ug/L | 0.058 | 34 | 8220 | 10114 | 0 |
| Se | 82 | 2.516 | ug/L | 0.131 | 5 | -6 | 441 | 4 |
| Se | 78 | 0.174 | ug/L | 0.159 | 91 | 8331 | 10009 | 0 |
| [Mo | 98 | 1.743 | ug/L | 0.027 | 1 | 186 | 11511 | 1 |
| Y | 89 | | ug/L | | | 239284 | 276790 | 0 |
| Kr | 83 | | ug/L | | | 224 | 313 | 0 |
| > In | 115 | | ug/L | | | 300134 | 368970 | 1 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 17 | 48 | 121 | 9 |
| Cd | 111 | -0.310 | ug/L | 0.031 | 9 | 119 | -760 | 10 |
| Cd | 114 | 0.018 | ug/L | 0.002 | 9 | 23 | 151 | 6 |
| Sb | 121 | 0.055 | ug/L | 0.005 | 9 | 43 | 660 | 7 |
| Sb | 123 | 0.057 | ug/L | 0.004 | 6 | 30 | 504 | 6 |
| Ba | 135 | 14.769 | ug/L | 0.077 | 0 | 16 | 33664 | 1 |
| [Ba | 137 | 14.695 | ug/L | 0.025 | 0 | 17 | 56531 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 336539 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 1368 | 153 | 170 | 11 |
| Pb | 208 | 0.077 | ug/L | 0.002 | 3 | 416 | 2850 | 3 |
| Bi | 209 | | ug/L | | | 242571 | 237520 | 1 |
| Th | 232 | 0.009 | ug/L | 0.001 | 9 | 158 | 500 | 5 |
| [U | 238 | 0.006 | ug/L | 0.000 | 2 | 22 | 258 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:48:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 202092 | 1 |
| [Be | 9 | 0.022 | ug/L | 0.010 | 43 | 4 | 9 | 28 |
| C | 13 | | mg/L | | | 5458 | 5234 | 0 |
| Cl | 37 | | mg/L | | | 3083861 | 3970154 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 281657 | 0 |
| V-1 | 51 | 4.359 | ug/L | 0.030 | 0 | 1385 | 56016 | 0 |
| V | 51 | 5.258 | ug/L | 0.085 | 1 | 5533 | 74098 | 0 |
| Cr | 52 | 0.861 | ug/L | 0.007 | 0 | 4562 | 15813 | 1 |
| Cr | 53 | 3.815 | ug/L | 0.169 | 4 | 1842 | 7569 | 2 |
| Mn | 55 | 624.050 | ug/L | 5.569 | 0 | 397 | 11396264 | 0 |
| Co | 59 | 0.497 | ug/L | 0.007 | 1 | 30 | 7089 | 2 |
| > Ge | 72 | | ug/L | | | 285210 | 364133 | 1 |
| Ni | 60 | 1.111 | ug/L | 0.019 | 1 | 49 | 3210 | 0 |
| Ni | 62 | 18.891 | ug/L | 2.127 | 11 | 30 | 8120 | 10 |
| Cu | 63 | 1.823 | ug/L | 0.144 | 7 | 165 | 12211 | 6 |
| Cu | 65 | 0.424 | ug/L | 0.015 | 3 | 80 | 1446 | 2 |
| Zn | 66 | 3.943 | ug/L | 0.074 | 1 | 143 | 8496 | 0 |
| Zn | 67 | 4.774 | ug/L | 0.190 | 3 | 130 | 1837 | 2 |
| Zn | 68 | 4.226 | ug/L | 0.123 | 2 | 5096 | 12806 | 0 |
| As-1 | 75 | 3.589 | ug/L | 0.020 | 0 | 416 | 7850 | 0 |
| As | 75 | 3.223 | ug/L | 0.070 | 2 | 8220 | 17023 | 0 |
| Se | 82 | 0.340 | ug/L | 0.076 | 22 | -6 | 57 | 25 |
| Se | 78 | -1.437 | ug/L | 0.247 | 17 | 8331 | 9957 | 0 |
| Mo | 98 | 1.192 | ug/L | 0.015 | 1 | 186 | 8506 | 1 |
| Y | 89 | | ug/L | | | 239284 | 290228 | 0 |
| Kr | 83 | | ug/L | | | 224 | 265 | 2 |
| > In | 115 | | ug/L | | | 300134 | 387743 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 65 | 48 | 87 | 18 |
| Cd | 111 | -0.010 | ug/L | 0.013 | 123 | 119 | 122 | 31 |
| Cd | 114 | 0.004 | ug/L | 0.001 | 21 | 23 | 61 | 10 |
| Sb | 121 | 0.037 | ug/L | 0.001 | 2 | 43 | 475 | 2 |
| Sb | 123 | 0.036 | ug/L | 0.001 | 2 | 30 | 350 | 2 |
| Ba | 135 | 6.423 | ug/L | 0.029 | 0 | 16 | 15398 | 0 |
| Ba | 137 | 6.447 | ug/L | 0.027 | 0 | 17 | 26074 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 351576 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 78 | 153 | 214 | 12 |
| Pb | 208 | 0.055 | ug/L | 0.003 | 4 | 416 | 2258 | 3 |
| Bi | 209 | | ug/L | | | 242571 | 263340 | 0 |
| Th | 232 | 0.014 | ug/L | 0.001 | 9 | 158 | 744 | 6 |
| U | 238 | 0.007 | ug/L | 0.000 | 7 | 22 | 320 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 15:55:38

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 178987 | 1 |
| [Be | 9 | 55.673 | ug/L | 1.023 | 1 | 4 | 13167 | 0 |
| C | 13 | | mg/L | | | 5458 | 4233 | 1 |
| Cl | 37 | | mg/L | | | 3083861 | 3747074 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 228741 | 0 |
| V-1 | 51 | 51.554 | ug/L | 0.404 | 0 | 1385 | 521084 | 0 |
| V | 51 | 52.613 | ug/L | 0.257 | 0 | 5533 | 545852 | 0 |
| Cr | 52 | 51.550 | ug/L | 0.739 | 1 | 4562 | 465306 | 1 |
| Cr | 53 | 54.808 | ug/L | 0.597 | 1 | 1842 | 60500 | 1 |
| Mn | 55 | 52.361 | ug/L | 0.213 | 0 | 397 | 777001 | 0 |
| Co | 59 | 54.853 | ug/L | 0.619 | 1 | 30 | 632250 | 0 |
| > Ge | 72 | | ug/L | | | 285210 | 351693 | 0 |
| Ni | 60 | 49.352 | ug/L | 0.713 | 1 | 49 | 135102 | 1 |
| Ni | 62 | 57.816 | ug/L | 0.595 | 1 | 30 | 23945 | 0 |
| Cu | 63 | 51.787 | ug/L | 0.281 | 0 | 165 | 329647 | 0 |
| Cu | 65 | 51.909 | ug/L | 0.617 | 1 | 80 | 158908 | 1 |
| Zn | 66 | 50.718 | ug/L | 0.545 | 1 | 143 | 103451 | 0 |
| Zn | 67 | 51.735 | ug/L | 0.631 | 1 | 130 | 17655 | 1 |
| Zn | 68 | 50.940 | ug/L | 0.551 | 1 | 5096 | 79645 | 1 |
| As-1 | 75 | 50.046 | ug/L | 0.170 | 0 | 416 | 99087 | 0 |
| As | 75 | 50.233 | ug/L | 0.128 | 0 | 8220 | 108423 | 0 |
| Se | 82 | 48.424 | ug/L | 0.270 | 0 | -6 | 8929 | 0 |
| Se | 78 | 49.035 | ug/L | 0.542 | 1 | 8331 | 32643 | 0 |
| Mo | 98 | 49.307 | ug/L | 0.189 | 0 | 186 | 330647 | 0 |
| Y | 89 | | ug/L | | | 239284 | 267207 | 0 |
| Kr | 83 | | ug/L | | | 224 | 261 | 2 |
| > In | 115 | | ug/L | | | 300134 | 380229 | 0 |
| Ag | 107 | 49.817 | ug/L | 0.324 | 0 | 48 | 639558 | 0 |
| Cd | 111 | 49.690 | ug/L | 0.951 | 1 | 119 | 150234 | 2 |
| Cd | 114 | 49.475 | ug/L | 0.563 | 1 | 23 | 353308 | 1 |
| Sb | 121 | 51.004 | ug/L | 0.589 | 1 | 43 | 575134 | 1 |
| Sb | 123 | 51.052 | ug/L | 0.569 | 1 | 30 | 430830 | 1 |
| Ba | 135 | 51.021 | ug/L | 0.515 | 1 | 16 | 119794 | 0 |
| Ba | 137 | 51.878 | ug/L | 0.426 | 0 | 17 | 205604 | 0 |
| > Tb | 159 | | ug/L | | | 301281 | 345158 | 1 |
| Tl | 205 | 44.948 | ug/L | 0.721 | 1 | 153 | 1117704 | 1 |
| Pb | 208 | 48.047 | ug/L | 0.965 | 2 | 416 | 1523076 | 0 |
| Bi | 209 | | ug/L | | | 242571 | 257528 | 0 |
| Th | 232 | 43.247 | ug/L | 0.947 | 2 | 158 | 1671390 | 0 |
| U | 238 | 43.893 | ug/L | 0.883 | 2 | 22 | 1820751 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:03:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 282102 | 173376 | 0 |
| [Be | 9 | 0.013 | ug/L | 0.008 | 63 | 4 | 5 | 32 |
| C | 13 | | mg/L | | | 5458 | 4532 | 2 |
| Cl | 37 | | mg/L | | | 3083861 | 3777603 | 0 |
| > Sc | 45 | | ug/L | | | 202397 | 227722 | 1 |
| V-1 | 51 | -0.014 | ug/L | 0.005 | 37 | 1385 | 1416 | 4 |
| V | 51 | 0.722 | ug/L | 0.039 | 5 | 5533 | 13594 | 1 |
| Cr | 52 | 0.051 | ug/L | 0.004 | 7 | 4562 | 5585 | 1 |
| Cr | 53 | 2.313 | ug/L | 0.127 | 5 | 1842 | 4525 | 1 |
| Mn | 55 | 0.011 | ug/L | 0.002 | 20 | 397 | 612 | 5 |
| Co | 59 | 0.001 | ug/L | 0.001 | 53 | 30 | 49 | 14 |
| > Ge | 72 | | ug/L | | | 285210 | 350628 | 0 |
| Ni | 60 | -0.002 | ug/L | 0.006 | 285 | 49 | 55 | 30 |
| Ni | 62 | 4.513 | ug/L | 0.322 | 7 | 30 | 1897 | 6 |
| Cu | 63 | 0.234 | ug/L | 0.017 | 7 | 165 | 1688 | 6 |
| Cu | 65 | 0.004 | ug/L | 0.002 | 42 | 80 | 110 | 4 |
| Zn | 66 | 0.034 | ug/L | 0.014 | 40 | 143 | 244 | 11 |
| Zn | 67 | 0.447 | ug/L | 0.060 | 13 | 130 | 310 | 6 |
| Zn | 68 | 0.293 | ug/L | 0.070 | 23 | 5096 | 6686 | 1 |
| As-1 | 75 | 0.001 | ug/L | 0.009 | 1613 | 416 | 512 | 3 |
| As | 75 | -0.102 | ug/L | 0.016 | 15 | 8220 | 9907 | 0 |
| Se | 82 | 0.033 | ug/L | 0.063 | 190 | -6 | -1 | 854 |
| Se | 78 | -0.481 | ug/L | 0.065 | 13 | 8331 | 10023 | 0 |
| Mo | 98 | -0.019 | ug/L | 0.003 | 13 | 186 | 102 | 16 |
| Y | 89 | | ug/L | | | 239284 | 268836 | 0 |
| Kr | 83 | | ug/L | | | 224 | 262 | 3 |
| > In | 115 | | ug/L | | | 300134 | 389520 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 19 | 48 | 136 | 9 |
| Cd | 111 | 0.005 | ug/L | 0.007 | 126 | 119 | 171 | 11 |
| Cd | 114 | -0.000 | ug/L | 0.000 | 124 | 23 | 27 | 12 |
| Sb | 121 | 0.018 | ug/L | 0.002 | 10 | 43 | 269 | 7 |
| Sb | 123 | 0.021 | ug/L | 0.005 | 23 | 30 | 222 | 19 |
| Ba | 135 | 0.004 | ug/L | 0.003 | 77 | 16 | 30 | 23 |
| Ba | 137 | 0.008 | ug/L | 0.001 | 14 | 17 | 54 | 8 |
| > Tb | 159 | | ug/L | | | 301281 | 347521 | 0 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 30 | 153 | 272 | 10 |
| Pb | 208 | 0.003 | ug/L | 0.002 | 64 | 416 | 567 | 9 |
| Bi | 209 | | ug/L | | | 242571 | 262883 | 0 |
| Th | 232 | 0.009 | ug/L | 0.001 | 10 | 158 | 547 | 6 |
| U | 238 | 0.001 | ug/L | 0.001 | 41 | 22 | 77 | 27 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:11:08

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 175030 | 2 |
| [Be | 9 | | ug/L | | | | 6 | 47 |
| C | 13 | | mg/L | | | | 4747 | 0 |
| Cl | 37 | | mg/L | | | | 3826196 | 0 |
| [> Sc | 45 | | ug/L | | | | 227466 | 1 |
| V-1 | 51 | | ug/L | | | | 1617 | 30 |
| V | 51 | | ug/L | | | | 12385 | 0 |
| Cr | 52 | | ug/L | | | | 5778 | 1 |
| Cr | 53 | | ug/L | | | | 4096 | 3 |
| Mn | 55 | | ug/L | | | | 520 | 2 |
| [Co | 59 | | ug/L | | | | 37 | 10 |
| [> Ge | 72 | | ug/L | | | | 348960 | 1 |
| Ni | 60 | | ug/L | | | | 62 | 10 |
| Ni | 62 | | ug/L | | | | 1293 | 3 |
| Cu | 63 | | ug/L | | | | 1174 | 3 |
| Cu | 65 | | ug/L | | | | 113 | 19 |
| Zn | 66 | | ug/L | | | | 207 | 5 |
| Zn | 67 | | ug/L | | | | 288 | 12 |
| Zn | 68 | | ug/L | | | | 6706 | 1 |
| As-1 | 75 | | ug/L | | | | 493 | 5 |
| As | 75 | | ug/L | | | | 9755 | 0 |
| Se | 82 | | ug/L | | | | -7 | 129 |
| Se | 78 | | ug/L | | | | 9882 | 0 |
| [Mo | 98 | | ug/L | | | | 57 | 2 |
| Y | 89 | | ug/L | | | | 266268 | 0 |
| Kr | 83 | | ug/L | | | | 265 | 4 |
| [> In | 115 | | ug/L | | | | 387830 | 0 |
| Ag | 107 | | ug/L | | | | 54 | 13 |
| Cd | 111 | | ug/L | | | | 177 | 6 |
| Cd | 114 | | ug/L | | | | 23 | 21 |
| Sb | 121 | | ug/L | | | | 123 | 3 |
| Sb | 123 | | ug/L | | | | 86 | 5 |
| Ba | 135 | | ug/L | | | | 26 | 17 |
| [Ba | 137 | | ug/L | | | | 33 | 15 |
| [> Tb | 159 | | ug/L | | | | 345205 | 0 |
| Tl | 205 | | ug/L | | | | 203 | 3 |
| Pb | 208 | | ug/L | | | | 473 | 2 |
| Bi | 209 | | ug/L | | | | 262872 | 0 |
| Th | 232 | | ug/L | | | | 255 | 3 |
| [U | 238 | | ug/L | | | | 37 | 13 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Wednesday, March 31, 2010 16:11:08

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0441 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0448 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0390 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0047 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0648 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0504 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 1.0000 | 0.0181 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0087 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0058 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0191 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0338 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 0.9999 | 0.0079 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0188 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0297 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0222 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0062 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0104 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9993 | 0.0720 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0918 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1120 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9995 | 0.1202 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:18:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 173316 | 1 |
| [Be | 9 | 55.871 | ug/L | 0.917 | 1 | 6 | 12800 | 0 |
| C | 13 | | mg/L | | | 4747 | 3162 | 1 |
| [Cl | 37 | | mg/L | | | 3826196 | 3805334 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 226765 | 1 |
| [V-1 | 51 | 51.134 | ug/L | 0.793 | 1 | 1617 | 512401 | 0 |
| V | 51 | 51.304 | ug/L | 0.583 | 1 | 12385 | 533938 | 0 |
| [Cr | 52 | 51.010 | ug/L | 0.981 | 1 | 5778 | 457122 | 1 |
| Cr | 53 | 51.540 | ug/L | 0.292 | 0 | 4096 | 58542 | 0 |
| [Mn | 55 | 51.660 | ug/L | 0.505 | 0 | 520 | 760015 | 0 |
| Co | 59 | 54.085 | ug/L | 0.416 | 0 | 37 | 618031 | 1 |
| > Ge | 72 | | ug/L | | | 348960 | 347362 | 0 |
| [Ni | 60 | 49.683 | ug/L | 0.585 | 1 | 62 | 134331 | 0 |
| Ni | 62 | 49.108 | ug/L | 0.825 | 1 | 1293 | 21344 | 1 |
| [Cu | 63 | 50.715 | ug/L | 0.460 | 0 | 1174 | 319814 | 0 |
| Cu | 65 | 51.534 | ug/L | 0.472 | 0 | 113 | 155831 | 0 |
| [Zn | 66 | 50.106 | ug/L | 0.774 | 1 | 207 | 100972 | 0 |
| Zn | 67 | 50.525 | ug/L | 0.654 | 1 | 288 | 17161 | 0 |
| Zn | 68 | 51.100 | ug/L | 0.653 | 1 | 6706 | 79356 | 0 |
| [As-1 | 75 | 49.960 | ug/L | 0.505 | 1 | 493 | 97679 | 0 |
| As | 75 | 50.382 | ug/L | 0.487 | 0 | 9755 | 107072 | 0 |
| [Se | 82 | 47.921 | ug/L | 0.654 | 1 | -7 | 8726 | 0 |
| Se | 78 | 49.719 | ug/L | 0.523 | 1 | 9882 | 32238 | 0 |
| [Mo | 98 | 49.130 | ug/L | 0.510 | 1 | 57 | 325233 | 1 |
| Y | 89 | | ug/L | | | 266268 | 262163 | 0 |
| [Kr | 83 | | ug/L | | | 265 | 282 | 4 |
| > In | 115 | | ug/L | | | 387830 | 380238 | 0 |
| [Ag | 107 | 49.363 | ug/L | 0.159 | 0 | 54 | 633741 | 1 |
| Cd | 111 | 49.461 | ug/L | 0.865 | 1 | 177 | 149557 | 1 |
| [Cd | 114 | 49.451 | ug/L | 0.551 | 1 | 23 | 353147 | 1 |
| Sb | 121 | 50.168 | ug/L | 0.596 | 1 | 123 | 565759 | 0 |
| [Sb | 123 | 50.183 | ug/L | 0.504 | 1 | 86 | 423540 | 0 |
| Ba | 135 | 50.875 | ug/L | 0.616 | 1 | 26 | 119453 | 0 |
| [Ba | 137 | 51.056 | ug/L | 0.456 | 0 | 33 | 202354 | 0 |
| > Tb | 159 | | ug/L | | | 345205 | 344899 | 0 |
| [Tl | 205 | 44.206 | ug/L | 0.323 | 0 | 203 | 1098534 | 0 |
| Pb | 208 | 47.686 | ug/L | 0.400 | 0 | 473 | 1510703 | 0 |
| [Bi | 209 | | ug/L | | | 262872 | 258363 | 0 |
| Th | 232 | 43.052 | ug/L | 0.510 | 1 | 255 | 1662918 | 0 |
| [U | 238 | 42.517 | ug/L | 0.548 | 1 | 37 | 1762558 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:27:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 176825 | 1 |
| [Be | 9 | -0.007 | ug/L | 0.014 | 195 | 6 | 5 | 66 |
| C | 13 | | mg/L | | | 4747 | 4616 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 3837133 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 230272 | 0 |
| V-1 | 51 | -0.042 | ug/L | 0.027 | 62 | 1617 | 1206 | 22 |
| V | 51 | -0.194 | ug/L | 0.005 | 2 | 12385 | 10537 | 1 |
| Cr | 52 | -0.001 | ug/L | 0.014 | 1665 | 5778 | 5841 | 1 |
| Cr | 53 | -0.469 | ug/L | 0.095 | 20 | 4096 | 3644 | 2 |
| Mn | 55 | -0.003 | ug/L | 0.002 | 63 | 520 | 479 | 6 |
| [Co | 59 | 0.001 | ug/L | 0.001 | 64 | 37 | 53 | 18 |
| > Ge | 72 | | ug/L | | | 348960 | 352881 | 0 |
| Ni | 60 | 0.002 | ug/L | 0.006 | 264 | 62 | 70 | 24 |
| Ni | 62 | -1.258 | ug/L | 0.046 | 3 | 1293 | 785 | 2 |
| Cu | 63 | -0.071 | ug/L | 0.002 | 2 | 1174 | 733 | 1 |
| Cu | 65 | -0.005 | ug/L | 0.003 | 54 | 113 | 99 | 8 |
| Zn | 66 | 0.005 | ug/L | 0.005 | 107 | 207 | 219 | 5 |
| Zn | 67 | -0.097 | ug/L | 0.030 | 31 | 288 | 258 | 3 |
| Zn | 68 | 0.015 | ug/L | 0.038 | 253 | 6706 | 6803 | 0 |
| As-1 | 75 | -0.005 | ug/L | 0.018 | 382 | 493 | 489 | 7 |
| As | 75 | 0.000 | ug/L | 0.026 | 7520 | 9755 | 9865 | 0 |
| Se | 82 | 0.013 | ug/L | 0.093 | 723 | -7 | -5 | 314 |
| Se | 78 | 0.030 | ug/L | 0.097 | 325 | 9882 | 10007 | 0 |
| [Mo | 98 | 0.004 | ug/L | 0.001 | 21 | 57 | 82 | 6 |
| Y | 89 | | ug/L | | | 266268 | 269588 | 0 |
| Kr | 83 | | ug/L | | | 265 | 267 | 2 |
| > In | 115 | | ug/L | | | 387830 | 392257 | 0 |
| [Ag | 107 | 0.005 | ug/L | 0.001 | 15 | 54 | 123 | 8 |
| [Cd | 111 | 0.002 | ug/L | 0.005 | 227 | 177 | 186 | 8 |
| [Cd | 114 | 0.000 | ug/L | 0.000 | 210 | 23 | 24 | 5 |
| [Sb | 121 | 0.031 | ug/L | 0.005 | 15 | 123 | 480 | 11 |
| [Sb | 123 | 0.033 | ug/L | 0.004 | 13 | 86 | 372 | 10 |
| [Ba | 135 | 0.003 | ug/L | 0.002 | 62 | 26 | 32 | 12 |
| [Ba | 137 | 0.003 | ug/L | 0.001 | 44 | 33 | 44 | 10 |
| > Tb | 159 | | ug/L | | | 345205 | 352221 | 0 |
| [Tl | 205 | -0.000 | ug/L | 0.001 | 166 | 203 | 199 | 7 |
| [Pb | 208 | 0.002 | ug/L | 0.001 | 71 | 473 | 543 | 7 |
| [Bi | 209 | | ug/L | | | 262872 | 264799 | 1 |
| [Th | 232 | 0.006 | ug/L | 0.001 | 14 | 255 | 487 | 6 |
| [U | 238 | 0.001 | ug/L | 0.000 | 25 | 37 | 67 | 11 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:42:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 184002 | 0 |
| [Be | 9 | -0.008 | ug/L | 0.021 | 250 | 6 | 5 | 100 |
| C | 13 | | mg/L | | | 4747 | 5483 | 3 |
| Cl | 37 | | mg/L | | | 3826196 | 3839400 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 239292 | 0 |
| V-1 | 51 | 0.032 | ug/L | 0.032 | 100 | 1617 | 2038 | 16 |
| V | 51 | -0.274 | ug/L | 0.010 | 3 | 12385 | 10090 | 1 |
| Cr | 52 | 0.024 | ug/L | 0.016 | 65 | 5778 | 6306 | 2 |
| Cr | 53 | -0.916 | ug/L | 0.060 | 6 | 4096 | 3287 | 1 |
| Mn | 55 | 0.040 | ug/L | 0.001 | 2 | 520 | 1162 | 1 |
| Co | 59 | 0.080 | ug/L | 0.016 | 19 | 37 | 1002 | 18 |
| > Ge | 72 | | ug/L | | | 348960 | 365035 | 0 |
| Ni | 60 | 0.011 | ug/L | 0.003 | 29 | 62 | 95 | 8 |
| Ni | 62 | -1.838 | ug/L | 0.025 | 1 | 1293 | 564 | 1 |
| Cu | 63 | 0.155 | ug/L | 0.004 | 2 | 1174 | 2250 | 1 |
| Cu | 65 | 0.263 | ug/L | 0.007 | 2 | 113 | 954 | 1 |
| Zn | 66 | 1.191 | ug/L | 0.033 | 2 | 207 | 2734 | 3 |
| Zn | 67 | 0.932 | ug/L | 0.016 | 1 | 288 | 628 | 0 |
| Zn | 68 | 1.042 | ug/L | 0.099 | 9 | 6706 | 8573 | 2 |
| As-1 | 75 | -0.018 | ug/L | 0.014 | 75 | 493 | 478 | 6 |
| As | 75 | -0.148 | ug/L | 0.045 | 30 | 9755 | 9904 | 0 |
| Se | 82 | -0.063 | ug/L | 0.099 | 157 | -7 | -20 | 94 |
| Se | 78 | -0.635 | ug/L | 0.182 | 28 | 9882 | 10036 | 0 |
| Mo | 98 | 0.011 | ug/L | 0.000 | 3 | 57 | 137 | 1 |
| Y | 89 | | ug/L | | | 266268 | 280780 | 0 |
| Kr | 83 | | ug/L | | | 265 | 274 | 2 |
| > In | 115 | | ug/L | | | 387830 | 405477 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 34 | 54 | 82 | 11 |
| Cd | 111 | 0.006 | ug/L | 0.001 | 16 | 177 | 205 | 1 |
| Cd | 114 | 0.004 | ug/L | 0.001 | 26 | 23 | 56 | 14 |
| Sb | 121 | 0.004 | ug/L | 0.001 | 33 | 123 | 172 | 7 |
| Sb | 123 | 0.004 | ug/L | 0.001 | 21 | 86 | 122 | 5 |
| Ba | 135 | 0.043 | ug/L | 0.002 | 3 | 26 | 134 | 2 |
| Ba | 137 | 0.040 | ug/L | 0.006 | 14 | 33 | 204 | 12 |
| > Tb | 159 | | ug/L | | | 345205 | 365535 | 0 |
| Tl | 205 | -0.003 | ug/L | 0.000 | 10 | 203 | 125 | 7 |
| Pb | 208 | 0.017 | ug/L | 0.001 | 3 | 473 | 1065 | 1 |
| Bi | 209 | | ug/L | | | 262872 | 274605 | 0 |
| Th | 232 | 0.002 | ug/L | 0.000 | 24 | 255 | 338 | 5 |
| U | 238 | 0.001 | ug/L | 0.000 | 31 | 37 | 82 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:49:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 175030 | 184623 | 0 |
| [Be | 9 | 0.007 | ug/L | 0.023 | 316 | 6 | 8 | 62 |
| C | 13 | | mg/L | | | 4747 | 6304 | 3 |
| Cl | 37 | | mg/L | | | 3826196 | 3836193 | 0 |
| [> Sc | 45 | | ug/L | | | 227466 | 241602 | 0 |
| [V-1 | 51 | 0.031 | ug/L | 0.032 | 102 | 1617 | 2046 | 16 |
| [V | 51 | -0.294 | ug/L | 0.012 | 4 | 12385 | 9965 | 0 |
| [Cr | 52 | 0.059 | ug/L | 0.012 | 20 | 5778 | 6689 | 1 |
| [Cr | 53 | -0.944 | ug/L | 0.101 | 10 | 4096 | 3288 | 3 |
| [Mn | 55 | 0.123 | ug/L | 0.002 | 1 | 520 | 2476 | 0 |
| [Co | 59 | 0.020 | ug/L | 0.002 | 8 | 37 | 287 | 6 |
| [> Ge | 72 | | ug/L | | | 348960 | 369028 | 0 |
| [Ni | 60 | 0.029 | ug/L | 0.007 | 23 | 62 | 150 | 13 |
| [Ni | 62 | -1.907 | ug/L | 0.075 | 3 | 1293 | 540 | 5 |
| [Cu | 63 | 0.100 | ug/L | 0.009 | 8 | 1174 | 1912 | 2 |
| [Cu | 65 | 0.207 | ug/L | 0.010 | 4 | 113 | 783 | 3 |
| [Zn | 66 | 6.031 | ug/L | 0.072 | 1 | 207 | 13105 | 1 |
| [Zn | 67 | 5.475 | ug/L | 0.076 | 1 | 288 | 2247 | 1 |
| [Zn | 68 | 5.906 | ug/L | 0.015 | 0 | 6706 | 16017 | 0 |
| [As-1 | 75 | -0.004 | ug/L | 0.026 | 680 | 493 | 513 | 10 |
| [As | 75 | -0.209 | ug/L | 0.036 | 17 | 9755 | 9887 | 0 |
| [Se | 82 | 0.094 | ug/L | 0.110 | 116 | -7 | 10 | 211 |
| [Se | 78 | -0.856 | ug/L | 0.114 | 13 | 9882 | 10041 | 0 |
| [Mo | 98 | 0.014 | ug/L | 0.002 | 13 | 57 | 158 | 8 |
| [Y | 89 | | ug/L | | | 266268 | 282896 | 0 |
| [Kr | 83 | | ug/L | | | 265 | 266 | 1 |
| [> In | 115 | | ug/L | | | 387830 | 402992 | 0 |
| [Ag | 107 | 0.002 | ug/L | 0.001 | 49 | 54 | 83 | 16 |
| [Cd | 111 | 0.003 | ug/L | 0.005 | 162 | 177 | 194 | 8 |
| [Cd | 114 | 0.001 | ug/L | 0.001 | 59 | 23 | 33 | 16 |
| [Sb | 121 | -0.000 | ug/L | 0.001 | 195 | 123 | 125 | 4 |
| [Sb | 123 | 0.002 | ug/L | 0.000 | 19 | 86 | 104 | 3 |
| [Ba | 135 | 0.076 | ug/L | 0.005 | 6 | 26 | 217 | 5 |
| [Ba | 137 | 0.082 | ug/L | 0.006 | 6 | 33 | 380 | 6 |
| [> Tb | 159 | | ug/L | | | 345205 | 365311 | 1 |
| [Tl | 205 | -0.004 | ug/L | 0.000 | 8 | 203 | 105 | 8 |
| [Pb | 208 | 0.011 | ug/L | 0.002 | 17 | 473 | 863 | 6 |
| [Bi | 209 | | ug/L | | | 262872 | 273881 | 0 |
| [Th | 232 | 0.005 | ug/L | 0.001 | 9 | 255 | 485 | 4 |
| [U | 238 | 0.001 | ug/L | 0.000 | 35 | 37 | 85 | 17 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 16:56:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 184966 | 0 |
| [Be | 9 | 27.684 | ug/L | 0.409 | 1 | 6 | 6773 | 2 |
| C | 13 | | mg/L | | | 4747 | 6221 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 3837694 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 240870 | 0 |
| V-1 | 51 | 26.333 | ug/L | 0.554 | 2 | 1617 | 281148 | 2 |
| V | 51 | 26.113 | ug/L | 0.491 | 1 | 12385 | 295129 | 1 |
| Cr | 52 | 27.036 | ug/L | 0.443 | 1 | 5778 | 260246 | 1 |
| Cr | 53 | 26.320 | ug/L | 0.427 | 1 | 4096 | 33878 | 1 |
| Mn | 55 | 27.122 | ug/L | 0.337 | 1 | 520 | 424113 | 1 |
| Co | 59 | 28.716 | ug/L | 0.616 | 2 | 37 | 348554 | 2 |
| > Ge | 72 | | ug/L | | | 348960 | 362254 | 0 |
| Ni | 60 | 26.429 | ug/L | 0.666 | 2 | 62 | 74555 | 2 |
| Ni | 62 | 24.737 | ug/L | 0.256 | 1 | 1293 | 11879 | 0 |
| Cu | 63 | 27.843 | ug/L | 0.359 | 1 | 1174 | 183664 | 1 |
| Cu | 65 | 28.343 | ug/L | 0.630 | 2 | 113 | 89431 | 2 |
| Zn | 66 | 81.496 | ug/L | 1.042 | 1 | 207 | 171146 | 1 |
| Zn | 67 | 76.254 | ug/L | 0.394 | 0 | 288 | 26859 | 0 |
| Zn | 68 | 80.583 | ug/L | 0.929 | 1 | 6706 | 126497 | 1 |
| As-1 | 75 | 25.652 | ug/L | 0.100 | 0 | 493 | 52554 | 0 |
| As | 75 | 25.876 | ug/L | 0.360 | 1 | 9755 | 62276 | 1 |
| Se | 82 | 75.531 | ug/L | 0.198 | 0 | -7 | 14349 | 0 |
| Se | 78 | 77.776 | ug/L | 0.895 | 1 | 9882 | 46805 | 0 |
| [Mo | 98 | 0.082 | ug/L | 0.005 | 6 | 57 | 625 | 5 |
| Y | 89 | | ug/L | | | 266268 | 280489 | 0 |
| Kr | 83 | | ug/L | | | 265 | 265 | 3 |
| > In | 115 | | ug/L | | | 387830 | 400049 | 0 |
| Ag | 107 | 24.800 | ug/L | 0.261 | 1 | 54 | 334994 | 0 |
| Cd | 111 | 25.270 | ug/L | 0.103 | 0 | 177 | 80483 | 0 |
| Cd | 114 | 25.210 | ug/L | 0.380 | 1 | 23 | 189411 | 1 |
| Sb | 121 | 0.003 | ug/L | 0.001 | 32 | 123 | 161 | 7 |
| Sb | 123 | 0.004 | ug/L | 0.001 | 38 | 86 | 122 | 10 |
| Ba | 135 | 26.429 | ug/L | 0.239 | 0 | 26 | 65304 | 1 |
| Ba | 137 | 26.643 | ug/L | 0.104 | 0 | 33 | 111116 | 0 |
| > Tb | 159 | | ug/L | | | 345205 | 363447 | 2 |
| Tl | 205 | 23.273 | ug/L | 0.243 | 1 | 203 | 609495 | 1 |
| Pb | 208 | 24.975 | ug/L | 0.372 | 1 | 473 | 833855 | 0 |
| Bi | 209 | | ug/L | | | 262872 | 275584 | 1 |
| Th | 232 | 22.298 | ug/L | 0.471 | 2 | 255 | 907504 | 0 |
| [U | 238 | 22.475 | ug/L | 0.366 | 1 | 37 | 981661 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:03:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 175030 | 179644 | 0 |
| [Be | 9 | 28.297 | ug/L | 0.192 | 0 | 6 | 6723 | 0 |
| C | 13 | | mg/L | | | 4747 | 5764 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 3824793 | 0 |
| [> Sc | 45 | | ug/L | | | 227466 | 235102 | 0 |
| [V-1 | 51 | 26.126 | ug/L | 0.535 | 2 | 1617 | 272236 | 1 |
| [V | 51 | 25.849 | ug/L | 0.456 | 1 | 12385 | 285251 | 0 |
| [Cr | 52 | 26.671 | ug/L | 0.442 | 1 | 5778 | 250649 | 0 |
| [Cr | 53 | 25.790 | ug/L | 0.206 | 0 | 4096 | 32485 | 0 |
| [Mn | 55 | 27.077 | ug/L | 0.265 | 0 | 520 | 413261 | 0 |
| [Co | 59 | 28.570 | ug/L | 0.496 | 1 | 37 | 338446 | 0 |
| [> Ge | 72 | | ug/L | | | 348960 | 359637 | 0 |
| [Ni | 60 | 25.857 | ug/L | 0.391 | 1 | 62 | 72412 | 0 |
| [Ni | 62 | 23.797 | ug/L | 0.422 | 1 | 1293 | 11396 | 1 |
| [Cu | 63 | 27.198 | ug/L | 0.161 | 0 | 1174 | 178139 | 0 |
| [Cu | 65 | 27.535 | ug/L | 0.131 | 0 | 113 | 86260 | 0 |
| [Zn | 66 | 81.467 | ug/L | 0.133 | 0 | 207 | 169850 | 0 |
| [Zn | 67 | 76.530 | ug/L | 0.703 | 0 | 288 | 26760 | 0 |
| [Zn | 68 | 81.665 | ug/L | 0.538 | 0 | 6706 | 127177 | 0 |
| [As-1 | 75 | 25.392 | ug/L | 0.061 | 0 | 493 | 51651 | 0 |
| [As | 75 | 25.745 | ug/L | 0.246 | 0 | 9755 | 61562 | 0 |
| [Se | 82 | 76.420 | ug/L | 0.293 | 0 | -7 | 14413 | 0 |
| [Se | 78 | 79.240 | ug/L | 1.026 | 1 | 9882 | 47148 | 0 |
| [Mo | 98 | 0.027 | ug/L | 0.003 | 12 | 57 | 243 | 10 |
| [Y | 89 | | ug/L | | | 266268 | 274898 | 1 |
| [Kr | 83 | | ug/L | | | 265 | 262 | 4 |
| [> In | 115 | | ug/L | | | 387830 | 398462 | 1 |
| [Ag | 107 | 24.340 | ug/L | 0.317 | 1 | 54 | 327468 | 1 |
| [Cd | 111 | 25.049 | ug/L | 0.287 | 1 | 177 | 79460 | 0 |
| [Cd | 114 | 25.081 | ug/L | 0.431 | 1 | 23 | 187676 | 0 |
| [Sb | 121 | 0.005 | ug/L | 0.001 | 24 | 123 | 187 | 7 |
| [Sb | 123 | 0.004 | ug/L | 0.000 | 7 | 86 | 121 | 3 |
| [Ba | 135 | 25.990 | ug/L | 0.236 | 0 | 26 | 63959 | 0 |
| [Ba | 137 | 25.800 | ug/L | 0.236 | 0 | 33 | 107167 | 0 |
| [> Tb | 159 | | ug/L | | | 345205 | 357767 | 1 |
| [Tl | 205 | 22.958 | ug/L | 0.199 | 0 | 203 | 591888 | 0 |
| [Pb | 208 | 24.718 | ug/L | 0.217 | 0 | 473 | 812502 | 0 |
| [Bi | 209 | | ug/L | | | 262872 | 270251 | 0 |
| [Th | 232 | 22.014 | ug/L | 0.288 | 1 | 255 | 882116 | 0 |
| [U | 238 | 22.049 | ug/L | 0.422 | 1 | 37 | 948127 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:10:09

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

AS

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 175030 | 202393 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.006 | 102 | 6 | 9 | 15 |
| C | 13 | | mg/L | | | 4747 | 7845 | 2 |
| Cl | 37 | | mg/L | | | 3826196 | 27262996 | 0 |
| [> Sc | 45 | | ug/L | | | 227466 | 242633 | 0 |
| V-1 | 51 | 0.006 | ug/L | 0.050 | 891 | 1617 | 1783 | 29 |
| V | 51 | 7.781 | ug/L | 0.169 | 2 | 12385 | 97863 | 2 |
| Cr | 52 | 0.811 | ug/L | 0.043 | 5 | 5778 | 13842 | 3 |
| Cr | 53 | 24.693 | ug/L | 0.684 | 2 | 4096 | 32290 | 2 |
| Mn | 55 | 246.640 | ug/L | 5.153 | 2 | 520 | 3880756 | 2 |
| Co | 59 | 0.590 | ug/L | 0.014 | 2 | 37 | 7255 | 2 |
| [> Ge | 72 | | ug/L | | | 348960 | 296304 | 1 |
| Ni | 60 | 1.967 | ug/L | 0.035 | 1 | 62 | 4587 | 1 |
| Ni | 62 | 138.103 | ug/L | 60.637 | 43 | 1293 | 49116 | 42 |
| Cu | 63 | 27.292 | ug/L | 5.924 | 21 | 1174 | 147119 | 20 |
| Cu | 65 | 0.661 | ug/L | 0.004 | 0 | 113 | 1799 | 0 |
| Zn | 66 | 1.618 | ug/L | 0.022 | 1 | 207 | 2950 | 1 |
| Zn | 67 | 4.000 | ug/L | 0.204 | 5 | 288 | 1383 | 3 |
| Zn | 68 | 3.446 | ug/L | 0.094 | 2 | 6706 | 9875 | 1 |
| As-1 | 75 | 1.721 | ug/L | 0.027 | 1 | 493 | 3273 | 0 |
| As | 75 | 0.840 | ug/L | 0.188 | 22 | 9755 | 9666 | 2 |
| Se | 82 | 4.976 | ug/L | 0.741 | 14 | -7 | 767 | 15 |
| Se | 78 | 4.375 | ug/L | 0.546 | 12 | 9882 | 10071 | 1 |
| Mo | 98 | 0.022 | ug/L | 0.001 | 3 | 57 | 170 | 3 |
| Y | 89 | | ug/L | | | 266268 | 255938 | 0 |
| Kr | 83 | | ug/L | | | 265 | 692 | 12 |
| [> In | 115 | | ug/L | | | 387830 | 332253 | 1 |
| Ag | 107 | 0.033 | ug/L | 0.006 | 17 | 54 | 416 | 17 |
| Cd | 111 | -1.260 | ug/L | 0.206 | 16 | 177 | -3169 | 16 |
| Cd | 114 | 0.006 | ug/L | 0.002 | 33 | 23 | 59 | 23 |
| Sb | 121 | 0.045 | ug/L | 0.003 | 5 | 123 | 550 | 5 |
| Sb | 123 | 0.055 | ug/L | 0.003 | 5 | 86 | 479 | 5 |
| Ba | 135 | 56.351 | ug/L | 0.220 | 0 | 26 | 115620 | 1 |
| Ba | 137 | 56.080 | ug/L | 0.500 | 0 | 33 | 194204 | 0 |
| [> Tb | 159 | | ug/L | | | 345205 | 293230 | 1 |
| Tl | 205 | -0.002 | ug/L | 0.001 | 62 | 203 | 132 | 19 |
| Pb | 208 | 0.053 | ug/L | 0.007 | 13 | 473 | 1821 | 11 |
| Bi | 209 | | ug/L | | | 262872 | 193093 | 1 |
| Th | 232 | 0.046 | ug/L | 0.009 | 20 | 255 | 1715 | 19 |
| U | 238 | 0.004 | ug/L | 0.001 | 19 | 37 | 159 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:16:58

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 175030 | 203492 | 1 |
| [Be | 9 | 0.004 | ug/L | 0.012 | 329 | 6 | 8 | 37 |
| C | 13 | | mg/L | | | 4747 | 6530 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 4192619 | 1 |
| [> Sc | 45 | | ug/L | | | 227466 | 253630 | 0 |
| V-1 | 51 | 1.393 | ug/L | 0.045 | 3 | 1617 | 17363 | 2 |
| V | 51 | 2.108 | ug/L | 0.056 | 2 | 12385 | 37791 | 2 |
| Cr | 52 | 1.774 | ug/L | 0.020 | 1 | 5778 | 24006 | 1 |
| Cr | 53 | 3.957 | ug/L | 0.207 | 5 | 4096 | 9245 | 3 |
| Mn | 55 | 55.950 | ug/L | 0.455 | 0 | 520 | 920698 | 1 |
| [Co | 59 | 0.454 | ug/L | 0.005 | 1 | 37 | 5847 | 1 |
| [> Ge | 72 | | ug/L | | | 348960 | 357800 | 0 |
| Ni | 60 | 2.889 | ug/L | 0.021 | 0 | 62 | 8106 | 1 |
| Ni | 62 | 29.138 | ug/L | 5.307 | 18 | 1293 | 13587 | 16 |
| Cu | 63 | 16.851 | ug/L | 0.476 | 2 | 1174 | 110262 | 2 |
| Cu | 65 | 14.966 | ug/L | 0.166 | 1 | 113 | 46695 | 0 |
| Zn | 66 | 114.837 | ug/L | 0.801 | 0 | 207 | 238104 | 0 |
| Zn | 67 | 105.247 | ug/L | 0.931 | 0 | 288 | 36503 | 0 |
| Zn | 68 | 115.927 | ug/L | 0.651 | 0 | 6706 | 176724 | 0 |
| As-1 | 75 | 0.748 | ug/L | 0.003 | 0 | 493 | 2004 | 0 |
| As | 75 | 0.571 | ug/L | 0.042 | 7 | 9755 | 11139 | 0 |
| Se | 82 | 0.114 | ug/L | 0.033 | 28 | -7 | 13 | 45 |
| Se | 78 | -0.588 | ug/L | 0.222 | 37 | 9882 | 9859 | 0 |
| [Mo | 98 | 2.086 | ug/L | 0.033 | 1 | 57 | 14281 | 1 |
| Y | 89 | | ug/L | | | 266268 | 280512 | 0 |
| Kr | 83 | | ug/L | | | 265 | 285 | 3 |
| [> In | 115 | | ug/L | | | 387830 | 388674 | 0 |
| Ag | 107 | 0.016 | ug/L | 0.002 | 12 | 54 | 265 | 10 |
| Cd | 111 | 0.137 | ug/L | 0.009 | 6 | 177 | 600 | 4 |
| Cd | 114 | 0.132 | ug/L | 0.004 | 3 | 23 | 984 | 3 |
| Sb | 121 | 2.226 | ug/L | 0.024 | 1 | 123 | 25784 | 0 |
| Sb | 123 | 2.204 | ug/L | 0.029 | 1 | 86 | 19096 | 0 |
| Ba | 135 | 34.491 | ug/L | 0.565 | 1 | 26 | 82789 | 1 |
| [Ba | 137 | 34.272 | ug/L | 0.258 | 0 | 33 | 138859 | 0 |
| [> Tb | 159 | | ug/L | | | 345205 | 350766 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.001 | 12 | 203 | 503 | 6 |
| Pb | 208 | 3.663 | ug/L | 0.021 | 0 | 473 | 118460 | 0 |
| Bi | 209 | | ug/L | | | 262872 | 271622 | 1 |
| Th | 232 | 0.035 | ug/L | 0.001 | 4 | 255 | 1644 | 3 |
| [U | 238 | 0.018 | ug/L | 0.001 | 3 | 37 | 794 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:23:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 194316 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.020 | 238 | 6 | 9 | 54 |
| C | 13 | | mg/L | | | 4747 | 6656 | 2 |
| Cl | 37 | | mg/L | | | 3826196 | 4137201 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 250766 | 1 |
| V-1 | 51 | 1.392 | ug/L | 0.018 | 1 | 1617 | 17161 | 1 |
| V | 51 | 1.828 | ug/L | 0.035 | 1 | 12385 | 34202 | 1 |
| Cr | 52 | 1.816 | ug/L | 0.024 | 1 | 5778 | 24142 | 1 |
| Cr | 53 | 3.135 | ug/L | 0.138 | 4 | 4096 | 8177 | 1 |
| Mn | 55 | 56.881 | ug/L | 0.439 | 0 | 520 | 925336 | 1 |
| Co | 59 | 0.453 | ug/L | 0.003 | 0 | 37 | 5761 | 0 |
| > Ge | 72 | | ug/L | | | 348960 | 357274 | 0 |
| Ni | 60 | 2.867 | ug/L | 0.020 | 0 | 62 | 8032 | 0 |
| Ni | 62 | 12.778 | ug/L | 0.853 | 6 | 1293 | 6692 | 5 |
| Cu | 63 | 15.914 | ug/L | 0.162 | 1 | 1174 | 104046 | 1 |
| Cu | 65 | 15.383 | ug/L | 0.308 | 2 | 113 | 47927 | 2 |
| Zn | 66 | 118.920 | ug/L | 1.439 | 1 | 207 | 246210 | 1 |
| Zn | 67 | 109.800 | ug/L | 0.591 | 0 | 288 | 38015 | 0 |
| Zn | 68 | 119.059 | ug/L | 0.939 | 0 | 6706 | 181048 | 0 |
| As-1 | 75 | 0.742 | ug/L | 0.016 | 2 | 493 | 1989 | 1 |
| As | 75 | 0.614 | ug/L | 0.037 | 6 | 9755 | 11207 | 0 |
| Se | 82 | 0.108 | ug/L | 0.022 | 20 | -7 | 12 | 33 |
| Se | 78 | -0.455 | ug/L | 0.076 | 16 | 9882 | 9907 | 0 |
| Mo | 98 | 2.121 | ug/L | 0.016 | 0 | 57 | 14495 | 0 |
| Y | 89 | | ug/L | | | 266268 | 280901 | 0 |
| Kr | 83 | | ug/L | | | 265 | 272 | 2 |
| > In | 115 | | ug/L | | | 387830 | 393226 | 0 |
| Ag | 107 | 0.010 | ug/L | 0.001 | 8 | 54 | 188 | 5 |
| Cd | 111 | 0.134 | ug/L | 0.006 | 4 | 177 | 597 | 2 |
| Cd | 114 | 0.122 | ug/L | 0.003 | 2 | 23 | 922 | 2 |
| Sb | 121 | 2.219 | ug/L | 0.017 | 0 | 123 | 25999 | 0 |
| Sb | 123 | 2.230 | ug/L | 0.005 | 0 | 86 | 19549 | 0 |
| Ba | 135 | 34.780 | ug/L | 0.226 | 0 | 26 | 84462 | 0 |
| Ba | 137 | 35.035 | ug/L | 0.206 | 0 | 33 | 143613 | 0 |
| > Tb | 159 | | ug/L | | | 345205 | 349289 | 0 |
| Tl | 205 | 0.007 | ug/L | 0.001 | 22 | 203 | 375 | 10 |
| Pb | 208 | 3.704 | ug/L | 0.011 | 0 | 473 | 119290 | 0 |
| Bi | 209 | | ug/L | | | 262872 | 266906 | 0 |
| Th | 232 | 0.024 | ug/L | 0.002 | 7 | 255 | 1214 | 6 |
| U | 238 | 0.012 | ug/L | 0.001 | 6 | 37 | 535 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 ASPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:30:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 175030 | 193126 | 0 |
| [| Be | 9 | 28.780 | ug/L | 0.451 | 1 | 6 | 7351 | 1 |
| | C | 13 | | mg/L | | | 4747 | 6236 | 2 |
| | Cl | 37 | | mg/L | | | 3826196 | 4135139 | 0 |
| > | Sc | 45 | | ug/L | | | 227466 | 248694 | 1 |
| [| V-1 | 51 | 27.256 | ug/L | 0.187 | 0 | 1617 | 300375 | 0 |
| | V | 51 | 27.486 | ug/L | 0.133 | 0 | 12385 | 320015 | 0 |
| | Cr | 52 | 28.007 | ug/L | 0.447 | 1 | 5778 | 278096 | 0 |
| | Cr | 53 | 28.674 | ug/L | 0.245 | 0 | 4096 | 37705 | 0 |
| | Mn | 55 | 82.450 | ug/L | 0.680 | 0 | 520 | 1329967 | 0 |
| | Co | 59 | 27.727 | ug/L | 0.226 | 0 | 37 | 347473 | 0 |
| > | Ge | 72 | | ug/L | | | 348960 | 360710 | 0 |
| [| Ni | 60 | 28.866 | ug/L | 0.138 | 0 | 62 | 81076 | 0 |
| | Ni | 62 | 34.289 | ug/L | 0.310 | 0 | 1293 | 15880 | 0 |
| | Cu | 63 | 42.315 | ug/L | 0.580 | 1 | 1174 | 277306 | 1 |
| | Cu | 65 | 42.171 | ug/L | 0.450 | 1 | 113 | 132444 | 1 |
| | Zn | 66 | 199.496 | ug/L | 1.152 | 0 | 207 | 416854 | 0 |
| | Zn | 67 | 184.061 | ug/L | 0.978 | 0 | 288 | 64136 | 0 |
| | Zn | 68 | 198.890 | ug/L | 2.297 | 1 | 6706 | 300705 | 1 |
| | As-1 | 75 | 26.544 | ug/L | 0.181 | 0 | 493 | 54131 | 0 |
| | As | 75 | 26.642 | ug/L | 0.423 | 1 | 9755 | 63548 | 1 |
| | Se | 82 | 77.042 | ug/L | 1.033 | 1 | -7 | 14574 | 1 |
| | Se | 78 | 78.793 | ug/L | 0.649 | 0 | 9882 | 47082 | 0 |
| [| Mo | 98 | 2.148 | ug/L | 0.014 | 0 | 57 | 14819 | 0 |
| | Y | 89 | | ug/L | | | 266268 | 282542 | 0 |
| | Kr | 83 | | ug/L | | | 265 | 269 | 3 |
| > | In | 115 | | ug/L | | | 387830 | 393042 | 0 |
| [| Ag | 107 | 23.801 | ug/L | 0.167 | 0 | 54 | 315874 | 0 |
| | Cd | 111 | 25.572 | ug/L | 0.160 | 0 | 177 | 80014 | 0 |
| | Cd | 114 | 25.735 | ug/L | 0.160 | 0 | 23 | 189966 | 0 |
| | Sb | 121 | 2.226 | ug/L | 0.021 | 0 | 123 | 26071 | 0 |
| | Sb | 123 | 2.248 | ug/L | 0.017 | 0 | 86 | 19696 | 1 |
| | Ba | 135 | 60.294 | ug/L | 0.622 | 1 | 26 | 146331 | 0 |
| [| Ba | 137 | 60.633 | ug/L | 0.704 | 1 | 33 | 248390 | 0 |
| > | Tb | 159 | | ug/L | | | 345205 | 355395 | 0 |
| [| Tl | 205 | 23.457 | ug/L | 0.203 | 0 | 203 | 600778 | 0 |
| | Pb | 208 | 28.612 | ug/L | 0.180 | 0 | 473 | 934243 | 0 |
| | Bi | 209 | | ug/L | | | 262872 | 269372 | 0 |
| | Th | 232 | 21.549 | ug/L | 0.182 | 0 | 255 | 857852 | 1 |
| [| U | 238 | 22.649 | ug/L | 0.067 | 0 | 37 | 967584 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:37:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 201239 | 0 |
| [Be | 9 | 0.023 | ug/L | 0.005 | 20 | 6 | 13 | 9 |
| C | 13 | | mg/L | | | 4747 | 6718 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 4102756 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 259471 | 0 |
| V-1 | 51 | 1.080 | ug/L | 0.019 | 1 | 1617 | 14194 | 0 |
| V | 51 | 1.166 | ug/L | 0.017 | 1 | 12385 | 27697 | 1 |
| Cr | 52 | 1.455 | ug/L | 0.017 | 1 | 5778 | 21328 | 1 |
| Cr | 53 | 1.700 | ug/L | 0.082 | 4 | 4096 | 6728 | 2 |
| Mn | 55 | 78.263 | ug/L | 0.609 | 0 | 520 | 1317169 | 0 |
| Co | 59 | 0.434 | ug/L | 0.005 | 1 | 37 | 5712 | 0 |
| > Ge | 72 | | ug/L | | | 348960 | 365058 | 0 |
| Ni | 60 | 2.821 | ug/L | 0.053 | 1 | 62 | 8076 | 1 |
| Ni | 62 | 5.311 | ug/L | 0.183 | 3 | 1293 | 3633 | 2 |
| Cu | 63 | 10.802 | ug/L | 0.054 | 0 | 1174 | 72559 | 0 |
| Cu | 65 | 10.913 | ug/L | 0.148 | 1 | 113 | 34774 | 1 |
| Zn | 66 | 127.196 | ug/L | 1.866 | 1 | 207 | 269046 | 1 |
| Zn | 67 | 116.114 | ug/L | 1.592 | 1 | 288 | 41056 | 0 |
| Zn | 68 | 127.087 | ug/L | 1.062 | 0 | 6706 | 196984 | 0 |
| As-1 | 75 | 0.699 | ug/L | 0.013 | 1 | 493 | 1945 | 1 |
| As | 75 | 0.531 | ug/L | 0.031 | 5 | 9755 | 11283 | 0 |
| Se | 82 | 0.128 | ug/L | 0.066 | 51 | -7 | 16 | 76 |
| Se | 78 | -0.667 | ug/L | 0.132 | 19 | 9882 | 10022 | 0 |
| [Mo | 98 | 1.447 | ug/L | 0.030 | 2 | 57 | 10127 | 1 |
| Y | 89 | | ug/L | | | 266268 | 288073 | 0 |
| Kr | 83 | | ug/L | | | 265 | 266 | 4 |
| > In | 115 | | ug/L | | | 387830 | 399196 | 0 |
| Ag | 107 | 0.020 | ug/L | 0.003 | 15 | 54 | 321 | 13 |
| Cd | 111 | 0.138 | ug/L | 0.014 | 9 | 177 | 619 | 6 |
| Cd | 114 | 0.121 | ug/L | 0.005 | 4 | 23 | 927 | 3 |
| Sb | 121 | 1.502 | ug/L | 0.016 | 1 | 123 | 17911 | 1 |
| Sb | 123 | 1.508 | ug/L | 0.016 | 1 | 86 | 13446 | 1 |
| Ba | 135 | 33.798 | ug/L | 0.194 | 0 | 26 | 83328 | 1 |
| [Ba | 137 | 33.969 | ug/L | 0.085 | 0 | 33 | 141361 | 0 |
| > Tb | 159 | | ug/L | | | 345205 | 356462 | 1 |
| Tl | 205 | 0.017 | ug/L | 0.002 | 10 | 203 | 640 | 6 |
| Pb | 208 | 2.242 | ug/L | 0.014 | 0 | 473 | 73879 | 1 |
| Bi | 209 | | ug/L | | | 262872 | 274724 | 0 |
| Th | 232 | 0.039 | ug/L | 0.003 | 7 | 255 | 1829 | 7 |
| [U | 238 | 0.021 | ug/L | 0.000 | 1 | 37 | 930 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:44:21

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 199895 | 0 |
| [Be | 9 | -0.008 | ug/L | 0.015 | 174 | 6 | 5 | 70 |
| C | 13 | | mg/L | | | 4747 | 6921 | 3 |
| Cl | 37 | | mg/L | | | 3826196 | 4058132 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 251832 | 0 |
| V-1 | 51 | 0.579 | ug/L | 0.013 | 2 | 1617 | 8216 | 1 |
| V | 51 | 0.574 | ug/L | 0.022 | 3 | 12385 | 20187 | 1 |
| Cr | 52 | 1.139 | ug/L | 0.003 | 0 | 5778 | 17595 | 0 |
| Cr | 53 | 1.092 | ug/L | 0.101 | 9 | 4096 | 5816 | 1 |
| Mn | 55 | 30.921 | ug/L | 0.454 | 1 | 520 | 505439 | 1 |
| Co | 59 | 0.254 | ug/L | 0.001 | 0 | 37 | 3261 | 0 |
| > Ge | 72 | | ug/L | | | 348960 | 372522 | 0 |
| Ni | 60 | 1.159 | ug/L | 0.012 | 1 | 62 | 3425 | 1 |
| Ni | 62 | 2.190 | ug/L | 0.074 | 3 | 1293 | 2340 | 1 |
| Cu | 63 | 5.512 | ug/L | 0.103 | 1 | 1174 | 38393 | 1 |
| Cu | 65 | 5.551 | ug/L | 0.085 | 1 | 113 | 18108 | 1 |
| Zn | 66 | 27.927 | ug/L | 0.454 | 1 | 207 | 60454 | 1 |
| Zn | 67 | 25.636 | ug/L | 0.470 | 1 | 288 | 9490 | 1 |
| Zn | 68 | 27.812 | ug/L | 0.475 | 1 | 6706 | 49581 | 1 |
| As-1 | 75 | 0.991 | ug/L | 0.047 | 4 | 493 | 2593 | 3 |
| As | 75 | 0.735 | ug/L | 0.040 | 5 | 9755 | 11937 | 0 |
| Se | 82 | 0.143 | ug/L | 0.136 | 95 | -7 | 19 | 134 |
| Se | 78 | -1.158 | ug/L | 0.088 | 7 | 9882 | 9990 | 0 |
| Mo | 98 | 0.359 | ug/L | 0.005 | 1 | 57 | 2612 | 1 |
| Y | 89 | | ug/L | | | 266268 | 288079 | 0 |
| Kr | 83 | | ug/L | | | 265 | 248 | 5 |
| > In | 115 | | ug/L | | | 387830 | 409892 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.000 | 6 | 54 | 157 | 4 |
| Cd | 111 | 0.070 | ug/L | 0.014 | 20 | 177 | 414 | 10 |
| Cd | 114 | 0.056 | ug/L | 0.003 | 4 | 23 | 456 | 4 |
| Sb | 121 | 0.546 | ug/L | 0.003 | 0 | 123 | 6764 | 0 |
| Sb | 123 | 0.556 | ug/L | 0.001 | 0 | 86 | 5147 | 0 |
| Ba | 135 | 7.134 | ug/L | 0.121 | 1 | 26 | 18080 | 1 |
| Ba | 137 | 7.117 | ug/L | 0.108 | 1 | 33 | 30438 | 1 |
| > Tb | 159 | | ug/L | | | 345205 | 365488 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 39 | 203 | 227 | 2 |
| Pb | 208 | 0.719 | ug/L | 0.007 | 0 | 473 | 24643 | 1 |
| Bi | 209 | | ug/L | | | 262872 | 279897 | 0 |
| Th | 232 | 0.015 | ug/L | 0.001 | 4 | 255 | 882 | 2 |
| U | 238 | 0.007 | ug/L | 0.001 | 7 | 37 | 362 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:51:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 188123 | 0 |
| [Be | 9 | 55.167 | ug/L | 0.047 | 0 | 6 | 13720 | 0 |
| C | 13 | | mg/L | | | 4747 | 4412 | 2 |
| Cl | 37 | | mg/L | | | 3826196 | 4047508 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 237862 | 1 |
| V-1 | 51 | 51.099 | ug/L | 0.739 | 1 | 1617 | 537084 | 0 |
| V | 51 | 51.288 | ug/L | 0.669 | 1 | 12385 | 559864 | 0 |
| Cr | 52 | 51.561 | ug/L | 0.989 | 1 | 5778 | 484564 | 0 |
| Cr | 53 | 52.118 | ug/L | 0.794 | 1 | 4096 | 62040 | 0 |
| Mn | 55 | 51.897 | ug/L | 0.820 | 1 | 520 | 800806 | 0 |
| Co | 59 | 54.006 | ug/L | 0.712 | 1 | 37 | 647233 | 0 |
| > Ge | 72 | | ug/L | | | 348960 | 361372 | 0 |
| Ni | 60 | 49.655 | ug/L | 0.626 | 1 | 62 | 139669 | 0 |
| Ni | 62 | 50.308 | ug/L | 0.621 | 1 | 1293 | 22716 | 1 |
| Cu | 63 | 50.864 | ug/L | 0.397 | 0 | 1174 | 333704 | 1 |
| Cu | 65 | 51.393 | ug/L | 0.362 | 0 | 113 | 161673 | 0 |
| Zn | 66 | 50.339 | ug/L | 0.469 | 0 | 207 | 105537 | 0 |
| Zn | 67 | 51.052 | ug/L | 0.604 | 1 | 288 | 18038 | 1 |
| Zn | 68 | 51.023 | ug/L | 0.607 | 1 | 6706 | 82447 | 1 |
| As-1 | 75 | 49.689 | ug/L | 0.293 | 0 | 493 | 101071 | 0 |
| As | 75 | 49.949 | ug/L | 0.397 | 0 | 9755 | 110519 | 0 |
| Se | 82 | 48.292 | ug/L | 0.212 | 0 | -7 | 9149 | 0 |
| Se | 78 | 49.255 | ug/L | 0.645 | 1 | 9882 | 33321 | 0 |
| Mo | 98 | 48.618 | ug/L | 0.377 | 0 | 57 | 334819 | 0 |
| Y | 89 | | ug/L | | | 266268 | 272691 | 0 |
| Kr | 83 | | ug/L | | | 265 | 264 | 2 |
| > In | 115 | | ug/L | | | 387830 | 396554 | 1 |
| Ag | 107 | 49.441 | ug/L | 0.471 | 0 | 54 | 661928 | 0 |
| Cd | 111 | 49.019 | ug/L | 0.382 | 0 | 177 | 154580 | 0 |
| Cd | 114 | 49.522 | ug/L | 0.563 | 1 | 23 | 368787 | 0 |
| Sb | 121 | 49.139 | ug/L | 0.535 | 1 | 123 | 577922 | 0 |
| Sb | 123 | 49.317 | ug/L | 0.649 | 1 | 86 | 434062 | 0 |
| Ba | 135 | 50.082 | ug/L | 0.521 | 1 | 26 | 122636 | 0 |
| Ba | 137 | 50.123 | ug/L | 0.844 | 1 | 33 | 207165 | 0 |
| > Tb | 159 | | ug/L | | | 345205 | 353918 | 0 |
| Tl | 205 | 44.992 | ug/L | 0.412 | 0 | 203 | 1147296 | 0 |
| Pb | 208 | 48.042 | ug/L | 0.509 | 1 | 473 | 1561771 | 0 |
| Bi | 209 | | ug/L | | | 262872 | 265964 | 0 |
| Th | 232 | 43.546 | ug/L | 0.861 | 1 | 255 | 1725866 | 1 |
| U | 238 | 43.407 | ug/L | 0.632 | 1 | 37 | 1846545 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 17:58:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 175030 | 186616 | 0 |
| [Be | 9 | -0.010 | ug/L | 0.006 | 57 | 6 | 4 | 31 |
| C | 13 | | mg/L | | | 4747 | 5553 | 1 |
| Cl | 37 | | mg/L | | | 3826196 | 4057896 | 0 |
| > Sc | 45 | | ug/L | | | 227466 | 236240 | 1 |
| V-1 | 51 | 0.004 | ug/L | 0.039 | 1011 | 1617 | 1717 | 22 |
| V | 51 | -0.130 | ug/L | 0.026 | 19 | 12385 | 11487 | 2 |
| Cr | 52 | 0.044 | ug/L | 0.032 | 73 | 5778 | 6400 | 3 |
| Cr | 53 | -0.370 | ug/L | 0.052 | 14 | 4096 | 3847 | 2 |
| Mn | 55 | 0.004 | ug/L | 0.003 | 93 | 520 | 598 | 9 |
| Co | 59 | 0.001 | ug/L | 0.000 | 65 | 37 | 45 | 10 |
| > Ge | 72 | | ug/L | | | 348960 | 355711 | 1 |
| Ni | 60 | -0.002 | ug/L | 0.001 | 58 | 62 | 57 | 7 |
| Ni | 62 | -0.505 | ug/L | 0.103 | 20 | 1293 | 1107 | 4 |
| Cu | 63 | -0.046 | ug/L | 0.005 | 11 | 1174 | 900 | 4 |
| Cu | 65 | 0.007 | ug/L | 0.002 | 24 | 113 | 137 | 3 |
| Zn | 66 | 0.038 | ug/L | 0.016 | 42 | 207 | 289 | 11 |
| Zn | 67 | -0.044 | ug/L | 0.035 | 79 | 288 | 278 | 3 |
| Zn | 68 | -0.013 | ug/L | 0.063 | 482 | 6706 | 6817 | 2 |
| As-1 | 75 | -0.032 | ug/L | 0.013 | 38 | 493 | 438 | 4 |
| As | 75 | -0.006 | ug/L | 0.067 | 1162 | 9755 | 9931 | 0 |
| Se | 82 | 0.010 | ug/L | 0.092 | 922 | -7 | -6 | 281 |
| Se | 78 | 0.011 | ug/L | 0.291 | 2650 | 9882 | 10077 | 0 |
| Mo | 98 | 0.005 | ug/L | 0.002 | 36 | 57 | 91 | 13 |
| Y | 89 | | ug/L | | | 266268 | 272199 | 1 |
| Kr | 83 | | ug/L | | | 265 | 250 | 4 |
| > In | 115 | | ug/L | | | 387830 | 393464 | 1 |
| Ag | 107 | 0.007 | ug/L | 0.002 | 22 | 54 | 151 | 15 |
| Cd | 111 | 0.008 | ug/L | 0.004 | 48 | 177 | 204 | 4 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 62 | 23 | 40 | 25 |
| Sb | 121 | 0.045 | ug/L | 0.011 | 23 | 123 | 652 | 20 |
| Sb | 123 | 0.048 | ug/L | 0.005 | 10 | 86 | 503 | 10 |
| Ba | 135 | 0.006 | ug/L | 0.002 | 26 | 26 | 42 | 10 |
| Ba | 137 | 0.005 | ug/L | 0.002 | 33 | 33 | 55 | 12 |
| > Tb | 159 | | ug/L | | | 345205 | 353418 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 40 | 203 | 237 | 5 |
| Pb | 208 | 0.004 | ug/L | 0.000 | 8 | 473 | 606 | 1 |
| Bi | 209 | | ug/L | | | 262872 | 268360 | 0 |
| Th | 232 | 0.010 | ug/L | 0.001 | 9 | 255 | 640 | 5 |
| U | 238 | 0.001 | ug/L | 0.000 | 16 | 37 | 98 | 9 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:11:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 186084 | 0 |
| [Be | 9 | | ug/L | | | | 7 | 33 |
| C | 13 | | mg/L | | | | 5188 | 1 |
| Cl | 37 | | mg/L | | | | 4051958 | 0 |
| [> Sc | 45 | | ug/L | | | | 235104 | 0 |
| V-1 | 51 | | ug/L | | | | 1664 | 13 |
| V | 51 | | ug/L | | | | 10593 | 2 |
| Cr | 52 | | ug/L | | | | 6396 | 2 |
| Cr | 53 | | ug/L | | | | 3578 | 1 |
| Mn | 55 | | ug/L | | | | 524 | 18 |
| [Co | 59 | | ug/L | | | | 35 | 12 |
| [> Ge | 72 | | ug/L | | | | 356014 | 0 |
| Ni | 60 | | ug/L | | | | 58 | 29 |
| Ni | 62 | | ug/L | | | | 858 | 4 |
| Cu | 63 | | ug/L | | | | 717 | 5 |
| Cu | 65 | | ug/L | | | | 115 | 12 |
| Zn | 66 | | ug/L | | | | 264 | 1 |
| Zn | 67 | | ug/L | | | | 274 | 8 |
| Zn | 68 | | ug/L | | | | 6792 | 1 |
| As-1 | 75 | | ug/L | | | | 438 | 3 |
| As | 75 | | ug/L | | | | 9846 | 0 |
| Se | 82 | | ug/L | | | | 5 | 256 |
| Se | 78 | | ug/L | | | | 9976 | 0 |
| [Mo | 98 | | ug/L | | | | 30 | 24 |
| Y | 89 | | ug/L | | | | 271537 | 0 |
| Kr | 83 | | ug/L | | | | 231 | 5 |
| [> In | 115 | | ug/L | | | | 392029 | 0 |
| Ag | 107 | | ug/L | | | | 72 | 2 |
| Cd | 111 | | ug/L | | | | 177 | 9 |
| Cd | 114 | | ug/L | | | | 20 | 19 |
| Sb | 121 | | ug/L | | | | 153 | 10 |
| Sb | 123 | | ug/L | | | | 120 | 5 |
| Ba | 135 | | ug/L | | | | 25 | 12 |
| [Ba | 137 | | ug/L | | | | 43 | 11 |
| [> Tb | 159 | | ug/L | | | | 350924 | 0 |
| Tl | 205 | | ug/L | | | | 177 | 11 |
| Pb | 208 | | ug/L | | | | 562 | 2 |
| Bi | 209 | | ug/L | | | | 268890 | 1 |
| Th | 232 | | ug/L | | | | 265 | 1 |
| [U | 238 | | ug/L | | | | 45 | 22 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Wednesday, March 31, 2010 18:11:01

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0441 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0448 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0390 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0047 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0648 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0504 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0078 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 1.0000 | 0.0181 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0087 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0058 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Se | 82 | 0.9999 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9999 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0191 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0338 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 0.9999 | 0.0079 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0188 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0297 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0222 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0062 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0104 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9993 | 0.0720 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0918 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9995 | 0.1120 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9995 | 0.1202 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:18:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 186687 | 0 |
| [Be | 9 | 54.803 | ug/L | 0.169 | 0 | 7 | 13526 | 0 |
| C | 13 | | mg/L | | | 5188 | 3996 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3989140 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 234130 | 0 |
| V-1 | 51 | 51.368 | ug/L | 0.380 | 0 | 1664 | 531486 | 0 |
| V | 51 | 51.522 | ug/L | 0.442 | 0 | 10593 | 551388 | 0 |
| Cr | 52 | 51.588 | ug/L | 0.097 | 0 | 6396 | 477715 | 0 |
| Cr | 53 | 52.049 | ug/L | 0.369 | 0 | 3578 | 60346 | 0 |
| Mn | 55 | 52.417 | ug/L | 0.418 | 0 | 524 | 796243 | 1 |
| [Co | 59 | 54.159 | ug/L | 0.447 | 0 | 35 | 638967 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 356447 | 0 |
| Ni | 60 | 50.245 | ug/L | 0.260 | 0 | 58 | 139409 | 1 |
| Ni | 62 | 50.423 | ug/L | 0.478 | 0 | 858 | 21993 | 1 |
| Cu | 63 | 51.372 | ug/L | 0.246 | 0 | 717 | 331934 | 0 |
| Cu | 65 | 51.562 | ug/L | 0.095 | 0 | 115 | 159997 | 0 |
| Zn | 66 | 50.459 | ug/L | 0.300 | 0 | 264 | 104397 | 0 |
| Zn | 67 | 51.194 | ug/L | 0.429 | 0 | 274 | 17820 | 0 |
| Zn | 68 | 51.570 | ug/L | 0.414 | 0 | 6792 | 82070 | 0 |
| As-1 | 75 | 49.993 | ug/L | 0.293 | 0 | 438 | 100235 | 0 |
| As | 75 | 50.342 | ug/L | 0.343 | 0 | 9846 | 109685 | 0 |
| Se | 82 | 48.325 | ug/L | 0.251 | 0 | 5 | 9044 | 0 |
| Se | 78 | 49.847 | ug/L | 0.395 | 0 | 9976 | 33034 | 0 |
| [Mo | 98 | 48.975 | ug/L | 0.690 | 1 | 30 | 332644 | 1 |
| Y | 89 | | ug/L | | | 271537 | 269749 | 0 |
| Kr | 83 | | ug/L | | | 231 | 255 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 384361 | 1 |
| Ag | 107 | 50.322 | ug/L | 0.780 | 1 | 72 | 652945 | 0 |
| Cd | 111 | 49.627 | ug/L | 0.854 | 1 | 177 | 151668 | 1 |
| Cd | 114 | 50.037 | ug/L | 0.705 | 1 | 20 | 361136 | 0 |
| Sb | 121 | 50.291 | ug/L | 0.769 | 1 | 153 | 573289 | 1 |
| Sb | 123 | 50.726 | ug/L | 0.325 | 0 | 120 | 432773 | 1 |
| Ba | 135 | 50.844 | ug/L | 0.185 | 0 | 25 | 120676 | 1 |
| [Ba | 137 | 50.750 | ug/L | 0.738 | 1 | 43 | 203305 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 352329 | 0 |
| Tl | 205 | 44.577 | ug/L | 0.448 | 1 | 177 | 1131651 | 1 |
| Pb | 208 | 47.583 | ug/L | 0.239 | 0 | 562 | 1539994 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 266503 | 0 |
| Th | 232 | 43.114 | ug/L | 0.320 | 0 | 265 | 1701351 | 1 |
| [U | 238 | 43.117 | ug/L | 0.322 | 0 | 45 | 1826107 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:26:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 190905 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.010 | 1346 | 7 | 7 | 33 |
| C | 13 | | mg/L | | | 5188 | 5123 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 4018440 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 239976 | 1 |
| V-1 | 51 | -0.019 | ug/L | 0.035 | 186 | 1664 | 1499 | 24 |
| V | 51 | -0.121 | ug/L | 0.006 | 5 | 10593 | 9511 | 1 |
| Cr | 52 | -0.052 | ug/L | 0.002 | 4 | 6396 | 6045 | 0 |
| Cr | 53 | -0.364 | ug/L | 0.093 | 25 | 3578 | 3245 | 3 |
| Mn | 55 | -0.003 | ug/L | 0.001 | 28 | 524 | 491 | 1 |
| [Co | 59 | 0.001 | ug/L | 0.001 | 48 | 35 | 51 | 15 |
| [> Ge | 72 | | ug/L | | | 356014 | 357745 | 0 |
| Ni | 60 | -0.000 | ug/L | 0.005 | 4203 | 58 | 58 | 23 |
| Ni | 62 | -0.477 | ug/L | 0.058 | 12 | 858 | 661 | 3 |
| Cu | 63 | -0.016 | ug/L | 0.001 | 7 | 717 | 615 | 1 |
| Cu | 65 | 0.006 | ug/L | 0.003 | 45 | 115 | 134 | 6 |
| Zn | 66 | 0.007 | ug/L | 0.018 | 249 | 264 | 280 | 13 |
| Zn | 67 | -0.074 | ug/L | 0.033 | 45 | 274 | 250 | 4 |
| Zn | 68 | 0.063 | ug/L | 0.087 | 139 | 6792 | 6917 | 2 |
| As-1 | 75 | 0.003 | ug/L | 0.001 | 52 | 438 | 445 | 0 |
| As | 75 | 0.027 | ug/L | 0.017 | 65 | 9846 | 9947 | 0 |
| Se | 82 | -0.046 | ug/L | 0.027 | 58 | 5 | -3 | 167 |
| Se | 78 | 0.105 | ug/L | 0.102 | 97 | 9976 | 10073 | 0 |
| [Mo | 98 | 0.009 | ug/L | 0.003 | 30 | 30 | 92 | 20 |
| Y | 89 | | ug/L | | | 271537 | 274638 | 0 |
| Kr | 83 | | ug/L | | | 231 | 241 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 389851 | 1 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 18 | 72 | 146 | 8 |
| Cd | 111 | 0.014 | ug/L | 0.006 | 39 | 177 | 220 | 6 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 63 | 20 | 35 | 25 |
| Sb | 121 | 0.044 | ug/L | 0.009 | 21 | 153 | 659 | 15 |
| Sb | 123 | 0.041 | ug/L | 0.012 | 28 | 120 | 476 | 20 |
| Ba | 135 | 0.003 | ug/L | 0.003 | 94 | 25 | 33 | 21 |
| [Ba | 137 | 0.003 | ug/L | 0.001 | 44 | 43 | 56 | 10 |
| [> Tb | 159 | | ug/L | | | 350924 | 348953 | 0 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 32 | 177 | 234 | 8 |
| Pb | 208 | 0.001 | ug/L | 0.001 | 66 | 562 | 602 | 4 |
| Bi | 209 | | ug/L | | | 268890 | 266190 | 1 |
| Th | 232 | 0.010 | ug/L | 0.002 | 16 | 265 | 659 | 9 |
| [U | 238 | 0.001 | ug/L | 0.000 | 29 | 45 | 93 | 14 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **QK39 B-L REN**

Sample Dil Factor: **10**

22222
2004.1

Comments:

Sample Date/Time: **Wednesday, March 31, 2010 18:33:45**

Number of Replicates: **3**

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 214633 | 0 |
| [Be | 9 | -0.004 | ug/L | 0.013 | 318 | 7 | 7 | 50 |
| C | 13 | | mg/L | | | 5188 | 4930 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 4009766 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 275736 | 0 |
| V-1 | 51 | 1.653 | ug/L | 0.028 | 1 | 1664 | 22026 | 1 |
| V | 51 | 1.395 | ug/L | 0.025 | 1 | 10593 | 29670 | 0 |
| Cr | 52 | 0.123 | ug/L | 0.007 | 5 | 6396 | 8819 | 0 |
| Cr | 53 | -0.588 | ug/L | 0.056 | 9 | 3578 | 3441 | 1 |
| Mn | 55 | 103.444 | ug/L | 0.325 | 0 | 524 | 1849942 | 0 |
| [Co | 59 | 0.381 | ug/L | 0.001 | 0 | 35 | 5332 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 378782 | 0 |
| Ni | 60 | 0.594 | ug/L | 0.034 | 5 | 58 | 1813 | 5 |
| Ni | 62 | 0.803 | ug/L | 0.214 | 26 | 858 | 1270 | 7 |
| Cu | 63 | 0.506 | ug/L | 0.015 | 2 | 717 | 4233 | 2 |
| Cu | 65 | 0.496 | ug/L | 0.010 | 2 | 115 | 1756 | 2 |
| Zn | 66 | 2.734 | ug/L | 0.027 | 1 | 264 | 6276 | 0 |
| Zn | 67 | 2.578 | ug/L | 0.077 | 2 | 274 | 1231 | 2 |
| Zn | 68 | 2.415 | ug/L | 0.081 | 3 | 6792 | 10972 | 1 |
| As-1 | 75 | 0.241 | ug/L | 0.018 | 7 | 438 | 978 | 4 |
| As | 75 | -0.020 | ug/L | 0.038 | 191 | 9846 | 10433 | 0 |
| Se | 82 | -0.044 | ug/L | 0.005 | 12 | 5 | -2 | 39 |
| Se | 78 | -1.184 | ug/L | 0.176 | 14 | 9976 | 10031 | 0 |
| [Mo | 98 | 0.819 | ug/L | 0.014 | 1 | 30 | 5942 | 1 |
| Y | 89 | | ug/L | | | 271537 | 293545 | 0 |
| Kr | 83 | | ug/L | | | 231 | 243 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 409624 | 1 |
| Ag | 107 | 0.004 | ug/L | 0.001 | 35 | 72 | 128 | 13 |
| Cd | 111 | 0.015 | ug/L | 0.007 | 46 | 177 | 234 | 9 |
| Cd | 114 | 0.006 | ug/L | 0.001 | 12 | 20 | 71 | 9 |
| Sb | 121 | 0.030 | ug/L | 0.002 | 7 | 153 | 523 | 4 |
| Sb | 123 | 0.031 | ug/L | 0.003 | 10 | 120 | 405 | 6 |
| Ba | 135 | 2.446 | ug/L | 0.032 | 1 | 25 | 6213 | 0 |
| [Ba | 137 | 2.436 | ug/L | 0.014 | 0 | 43 | 10443 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 369242 | 0 |
| Tl | 205 | 0.002 | ug/L | 0.000 | 19 | 177 | 235 | 4 |
| Pb | 208 | 0.044 | ug/L | 0.002 | 4 | 562 | 2079 | 3 |
| Bi | 209 | | ug/L | | | 268890 | 280508 | 0 |
| Th | 232 | 0.025 | ug/L | 0.001 | 4 | 265 | 1300 | 3 |
| [U | 238 | 0.008 | ug/L | 0.001 | 7 | 45 | 405 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:40:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 237387 | 2 |
| [Be | 9 | 0.034 | ug/L | 0.012 | 36 | 7 | 20 | 21 |
| C | 13 | | mg/L | | | 5188 | 8031 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3920843 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 335498 | 0 |
| V-1 | 51 | 6.717 | ug/L | 0.017 | 0 | 1664 | 101658 | 0 |
| V | 51 | 6.289 | ug/L | 0.034 | 0 | 10593 | 109717 | 0 |
| Cr | 52 | 0.822 | ug/L | 0.019 | 2 | 6396 | 19884 | 0 |
| Cr | 53 | -0.180 | ug/L | 0.093 | 51 | 3578 | 4824 | 2 |
| Mn | 55 | 441.136 | ug/L | 4.646 | 1 | 524 | 9596988 | 1 |
| [Co | 59 | 1.451 | ug/L | 0.026 | 1 | 35 | 24583 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 366128 | 0 |
| Ni | 60 | 2.911 | ug/L | 0.023 | 0 | 58 | 8352 | 1 |
| Ni | 62 | 7.639 | ug/L | 0.440 | 5 | 858 | 4171 | 4 |
| Cu | 63 | 2.298 | ug/L | 0.017 | 0 | 717 | 15959 | 0 |
| Cu | 65 | 1.949 | ug/L | 0.035 | 1 | 115 | 6327 | 1 |
| Zn | 66 | 5.067 | ug/L | 0.071 | 1 | 264 | 11012 | 1 |
| Zn | 67 | 5.481 | ug/L | 0.169 | 3 | 274 | 2212 | 2 |
| Zn | 68 | 5.118 | ug/L | 0.074 | 1 | 6792 | 14658 | 0 |
| As-1 | 75 | 1.258 | ug/L | 0.021 | 1 | 438 | 3031 | 1 |
| As | 75 | 1.041 | ug/L | 0.029 | 2 | 9846 | 12246 | 0 |
| Se | 82 | 0.131 | ug/L | 0.032 | 24 | 5 | 30 | 20 |
| Se | 78 | -0.775 | ug/L | 0.185 | 23 | 9976 | 9891 | 0 |
| [Mo | 98 | 4.055 | ug/L | 0.085 | 2 | 30 | 28321 | 1 |
| Y | 89 | | ug/L | | | 271537 | 308110 | 0 |
| Kr | 83 | | ug/L | | | 231 | 248 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 385463 | 0 |
| Ag | 107 | 0.012 | ug/L | 0.001 | 9 | 72 | 226 | 6 |
| Cd | 111 | 0.026 | ug/L | 0.010 | 37 | 177 | 254 | 11 |
| Cd | 114 | 0.016 | ug/L | 0.004 | 23 | 20 | 138 | 20 |
| Sb | 121 | 0.130 | ug/L | 0.003 | 2 | 153 | 1640 | 1 |
| Sb | 123 | 0.127 | ug/L | 0.003 | 2 | 120 | 1200 | 1 |
| Ba | 135 | 11.920 | ug/L | 0.153 | 1 | 25 | 28392 | 0 |
| [Ba | 137 | 11.883 | ug/L | 0.049 | 0 | 43 | 47778 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 349722 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.000 | 22 | 177 | 221 | 3 |
| Pb | 208 | 0.196 | ug/L | 0.001 | 0 | 562 | 6867 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 266480 | 0 |
| Th | 232 | 0.087 | ug/L | 0.006 | 6 | 265 | 3690 | 5 |
| [U | 238 | 0.036 | ug/L | 0.001 | 2 | 45 | 1568 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:48:26

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 252311 | 1 |
| [Be | 9 | 0.019 | ug/L | 0.019 | 96 | 7 | 16 | 37 |
| C | 13 | | mg/L | | | 5188 | 7653 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3789938 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 334940 | 1 |
| V-1 | 51 | 6.744 | ug/L | 0.170 | 2 | 1664 | 101854 | 0 |
| V | 51 | 6.267 | ug/L | 0.158 | 2 | 10593 | 109181 | 0 |
| Cr | 52 | 0.727 | ug/L | 0.021 | 2 | 6396 | 18610 | 0 |
| Cr | 53 | -0.418 | ug/L | 0.045 | 10 | 3578 | 4446 | 2 |
| Mn | 55 | 449.048 | ug/L | 4.841 | 1 | 524 | 9751219 | 0 |
| Co | 59 | 1.536 | ug/L | 0.019 | 1 | 35 | 25975 | 0 |
| > Ge | 72 | | ug/L | | | 356014 | 366558 | 1 |
| Ni | 60 | 2.917 | ug/L | 0.061 | 2 | 58 | 8379 | 1 |
| Ni | 62 | 8.823 | ug/L | 0.791 | 8 | 858 | 4687 | 7 |
| Cu | 63 | 2.357 | ug/L | 0.018 | 0 | 717 | 16366 | 1 |
| Cu | 65 | 1.997 | ug/L | 0.021 | 1 | 115 | 6485 | 1 |
| Zn | 66 | 3.822 | ug/L | 0.070 | 1 | 264 | 8382 | 0 |
| Zn | 67 | 4.158 | ug/L | 0.059 | 1 | 274 | 1748 | 0 |
| Zn | 68 | 3.960 | ug/L | 0.243 | 6 | 6792 | 12933 | 1 |
| As-1 | 75 | 1.246 | ug/L | 0.012 | 0 | 438 | 3008 | 1 |
| As | 75 | 0.944 | ug/L | 0.057 | 6 | 9846 | 12062 | 0 |
| Se | 82 | 0.271 | ug/L | 0.059 | 21 | 5 | 57 | 18 |
| Se | 78 | -1.111 | ug/L | 0.222 | 19 | 9976 | 9742 | 0 |
| Mo | 98 | 4.067 | ug/L | 0.056 | 1 | 30 | 28433 | 0 |
| Y | 89 | | ug/L | | | 271537 | 314519 | 1 |
| Kr | 83 | | ug/L | | | 231 | 226 | 4 |
| > In | 115 | | ug/L | | | 392029 | 391162 | 0 |
| Ag | 107 | 0.010 | ug/L | 0.001 | 9 | 72 | 207 | 6 |
| Cd | 111 | 0.013 | ug/L | 0.015 | 117 | 177 | 217 | 21 |
| Cd | 114 | 0.011 | ug/L | 0.004 | 35 | 20 | 100 | 28 |
| Sb | 121 | 0.122 | ug/L | 0.005 | 4 | 153 | 1562 | 3 |
| Sb | 123 | 0.118 | ug/L | 0.002 | 1 | 120 | 1142 | 1 |
| Ba | 135 | 11.554 | ug/L | 0.140 | 1 | 25 | 27929 | 1 |
| Ba | 137 | 11.548 | ug/L | 0.078 | 0 | 43 | 47122 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 352724 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 33 | 177 | 188 | 1 |
| Pb | 208 | 0.133 | ug/L | 0.003 | 2 | 562 | 4858 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 267723 | 0 |
| Th | 232 | 0.059 | ug/L | 0.002 | 2 | 265 | 2611 | 2 |
| U | 238 | 0.035 | ug/L | 0.002 | 4 | 45 | 1541 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 18:55:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 256215 | 0 |
| [Be | 9 | 25.983 | ug/L | 0.149 | 0 | 7 | 8806 | 0 |
| C | 13 | | mg/L | | | 5188 | 7500 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3628174 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 312226 | 2 |
| V-1 | 51 | 26.921 | ug/L | 0.307 | 1 | 1664 | 372557 | 3 |
| V | 51 | 26.463 | ug/L | 0.214 | 0 | 10593 | 384563 | 2 |
| Cr | 52 | 20.788 | ug/L | 0.204 | 0 | 6396 | 261791 | 2 |
| Cr | 53 | 19.710 | ug/L | 0.272 | 1 | 3578 | 33421 | 1 |
| Mn | 55 | 474.140 | ug/L | 2.510 | 0 | 524 | 9599123 | 2 |
| [Co | 59 | 21.961 | ug/L | 0.200 | 0 | 35 | 345503 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 344967 | 1 |
| Ni | 60 | 27.689 | ug/L | 0.169 | 0 | 58 | 74371 | 0 |
| Ni | 62 | 34.415 | ug/L | 0.978 | 2 | 858 | 14789 | 1 |
| Cu | 63 | 27.553 | ug/L | 0.106 | 0 | 717 | 172621 | 0 |
| Cu | 65 | 27.106 | ug/L | 0.352 | 1 | 115 | 81460 | 2 |
| Zn | 66 | 81.096 | ug/L | 1.572 | 1 | 264 | 162242 | 2 |
| Zn | 67 | 76.099 | ug/L | 0.547 | 0 | 274 | 25508 | 1 |
| Zn | 68 | 80.259 | ug/L | 0.734 | 0 | 6792 | 119963 | 2 |
| As-1 | 75 | 26.292 | ug/L | 0.194 | 0 | 438 | 51222 | 1 |
| As | 75 | 25.986 | ug/L | 0.147 | 0 | 9846 | 59415 | 1 |
| Se | 82 | 76.652 | ug/L | 0.439 | 0 | 5 | 13881 | 1 |
| Se | 78 | 76.777 | ug/L | 0.289 | 0 | 9976 | 44023 | 1 |
| [Mo | 98 | 4.137 | ug/L | 0.066 | 1 | 30 | 27224 | 2 |
| Y | 89 | | ug/L | | | 271537 | 297605 | 1 |
| Kr | 83 | | ug/L | | | 231 | 238 | 7 |
| [> In | 115 | | ug/L | | | 392029 | 367852 | 1 |
| Ag | 107 | 20.039 | ug/L | 0.098 | 0 | 72 | 248927 | 1 |
| Cd | 111 | 24.520 | ug/L | 0.243 | 0 | 177 | 71821 | 2 |
| Cd | 114 | 24.546 | ug/L | 0.234 | 0 | 20 | 169566 | 0 |
| Sb | 121 | 0.116 | ug/L | 0.003 | 2 | 153 | 1411 | 1 |
| Sb | 123 | 0.118 | ug/L | 0.004 | 3 | 120 | 1072 | 2 |
| Ba | 135 | 35.903 | ug/L | 0.246 | 0 | 25 | 81566 | 1 |
| [Ba | 137 | 36.356 | ug/L | 0.053 | 0 | 43 | 139422 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 337483 | 1 |
| Tl | 205 | 22.824 | ug/L | 0.230 | 1 | 177 | 555041 | 0 |
| Pb | 208 | 24.813 | ug/L | 0.103 | 0 | 562 | 769488 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 258953 | 1 |
| Th | 232 | 23.278 | ug/L | 0.222 | 0 | 265 | 879940 | 1 |
| [U | 238 | 23.657 | ug/L | 0.211 | 0 | 45 | 959630 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:02:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 262456 | 0 |
| [Be | 9 | 0.067 | ug/L | 0.010 | 15 | 7 | 33 | 11 |
| C | 13 | | mg/L | | | 5188 | 9032 | 1 |
| [Cl | 37 | | mg/L | | | 4051958 | 3408859 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 313939 | 0 |
| V-1 | 51 | 15.058 | ug/L | 0.102 | 0 | 1664 | 210475 | 0 |
| V | 51 | 14.366 | ug/L | 0.124 | 0 | 10593 | 216352 | 0 |
| Cr | 52 | 2.746 | ug/L | 0.040 | 1 | 6396 | 42187 | 1 |
| Cr | 53 | 1.278 | ug/L | 0.115 | 9 | 3578 | 6646 | 1 |
| Mn | 55 | 257.331 | ug/L | 1.830 | 0 | 524 | 5238655 | 1 |
| [Co | 59 | 1.598 | ug/L | 0.022 | 1 | 35 | 25330 | 2 |
| > Ge | 72 | | ug/L | | | 356014 | 346404 | 1 |
| Ni | 60 | 1.837 | ug/L | 0.033 | 1 | 58 | 5008 | 0 |
| Ni | 62 | 3.087 | ug/L | 0.156 | 5 | 858 | 2092 | 1 |
| Cu | 63 | 4.145 | ug/L | 0.056 | 1 | 717 | 26670 | 0 |
| Cu | 65 | 3.634 | ug/L | 0.048 | 1 | 115 | 11063 | 1 |
| Zn | 66 | 2.397 | ug/L | 0.037 | 1 | 264 | 5064 | 2 |
| Zn | 67 | 3.166 | ug/L | 0.083 | 2 | 274 | 1321 | 3 |
| Zn | 68 | 2.561 | ug/L | 0.045 | 1 | 6792 | 10241 | 0 |
| As-1 | 75 | 5.146 | ug/L | 0.053 | 1 | 438 | 10409 | 0 |
| As | 75 | 4.852 | ug/L | 0.086 | 1 | 9846 | 18930 | 0 |
| Se | 82 | 0.297 | ug/L | 0.024 | 8 | 5 | 59 | 8 |
| Se | 78 | -1.035 | ug/L | 0.166 | 16 | 9976 | 9241 | 0 |
| [Mo | 98 | 3.555 | ug/L | 0.058 | 1 | 30 | 23493 | 0 |
| Y | 89 | | ug/L | | | 271537 | 354341 | 1 |
| Kr | 83 | | ug/L | | | 231 | 236 | 3 |
| > In | 115 | | ug/L | | | 392029 | 368353 | 0 |
| Ag | 107 | 0.027 | ug/L | 0.001 | 2 | 72 | 401 | 2 |
| Cd | 111 | 0.128 | ug/L | 0.026 | 20 | 177 | 542 | 14 |
| Cd | 114 | 0.025 | ug/L | 0.002 | 8 | 20 | 190 | 8 |
| Sb | 121 | 0.108 | ug/L | 0.005 | 4 | 153 | 1323 | 3 |
| Sb | 123 | 0.101 | ug/L | 0.004 | 3 | 120 | 941 | 2 |
| Ba | 135 | 9.096 | ug/L | 0.151 | 1 | 25 | 20709 | 1 |
| [Ba | 137 | 9.204 | ug/L | 0.079 | 0 | 43 | 35373 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 344856 | 0 |
| Tl | 205 | 0.006 | ug/L | 0.001 | 13 | 177 | 320 | 6 |
| Pb | 208 | 0.275 | ug/L | 0.005 | 1 | 562 | 9261 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 266036 | 0 |
| Th | 232 | 0.119 | ug/L | 0.004 | 3 | 265 | 4858 | 3 |
| [U | 238 | 0.029 | ug/L | 0.001 | 4 | 45 | 1254 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:10:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 267128 | 0 |
| [Be | 9 | 0.032 | ug/L | 0.011 | 35 | 7 | 22 | 18 |
| C | 13 | | mg/L | | | 5188 | 7623 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3322257 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 304198 | 0 |
| V-1 | 51 | 8.860 | ug/L | 0.039 | 0 | 1664 | 120889 | 0 |
| V | 51 | 8.214 | ug/L | 0.045 | 0 | 10593 | 125742 | 0 |
| Cr | 52 | 1.295 | ug/L | 0.012 | 0 | 6396 | 23645 | 1 |
| Cr | 53 | -0.286 | ug/L | 0.014 | 4 | 3578 | 4223 | 0 |
| Mn | 55 | 125.708 | ug/L | 1.212 | 0 | 524 | 2480000 | 0 |
| Co | 59 | 1.024 | ug/L | 0.006 | 0 | 35 | 15738 | 0 |
| > Ge | 72 | | ug/L | | | 356014 | 342470 | 0 |
| Ni | 60 | 0.877 | ug/L | 0.030 | 3 | 58 | 2393 | 3 |
| Ni | 62 | 1.442 | ug/L | 0.144 | 9 | 858 | 1406 | 3 |
| Cu | 63 | 4.506 | ug/L | 0.035 | 0 | 717 | 28605 | 1 |
| Cu | 65 | 4.329 | ug/L | 0.075 | 1 | 115 | 13007 | 1 |
| Zn | 66 | 3.805 | ug/L | 0.056 | 1 | 264 | 7799 | 1 |
| Zn | 67 | 3.651 | ug/L | 0.225 | 6 | 274 | 1466 | 5 |
| Zn | 68 | 3.618 | ug/L | 0.146 | 4 | 6792 | 11606 | 1 |
| As-1 | 75 | 3.551 | ug/L | 0.034 | 0 | 438 | 7232 | 1 |
| As | 75 | 3.146 | ug/L | 0.059 | 1 | 9846 | 15465 | 1 |
| Se | 82 | 0.203 | ug/L | 0.167 | 82 | 5 | 42 | 71 |
| Se | 78 | -1.615 | ug/L | 0.166 | 10 | 9976 | 8879 | 1 |
| Mo | 98 | 1.797 | ug/L | 0.017 | 0 | 30 | 11755 | 1 |
| Y | 89 | | ug/L | | | 271537 | 335521 | 0 |
| Kr | 83 | | ug/L | | | 231 | 224 | 6 |
| > In | 115 | | ug/L | | | 392029 | 368394 | 0 |
| Ag | 107 | 0.027 | ug/L | 0.000 | 0 | 72 | 401 | 0 |
| Cd | 111 | 0.110 | ug/L | 0.017 | 15 | 177 | 489 | 11 |
| Cd | 114 | 0.013 | ug/L | 0.003 | 21 | 20 | 107 | 18 |
| Sb | 121 | 0.102 | ug/L | 0.003 | 2 | 153 | 1259 | 2 |
| Sb | 123 | 0.104 | ug/L | 0.002 | 2 | 120 | 965 | 2 |
| Ba | 135 | 3.941 | ug/L | 0.055 | 1 | 25 | 8988 | 2 |
| Ba | 137 | 3.960 | ug/L | 0.065 | 1 | 43 | 15243 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 345113 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.000 | 2 | 177 | 309 | 0 |
| Pb | 208 | 0.424 | ug/L | 0.004 | 1 | 562 | 13998 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 273402 | 0 |
| Th | 232 | 0.172 | ug/L | 0.006 | 3 | 265 | 6922 | 2 |
| U | 238 | 0.040 | ug/L | 0.002 | 3 | 45 | 1717 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:17:30

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 273236 | 0 |
| [Be | 9 | 0.019 | ug/L | 0.026 | 136 | 7 | 17 | 52 |
| C | 13 | | mg/L | | | 5188 | 7282 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3601735 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 304548 | 1 |
| V-1 | 51 | 2.385 | ug/L | 0.029 | 1 | 1664 | 34163 | 2 |
| V | 51 | 2.016 | ug/L | 0.029 | 1 | 10593 | 41253 | 1 |
| Cr | 52 | 2.880 | ug/L | 0.048 | 1 | 6396 | 42515 | 1 |
| Cr | 53 | 1.718 | ug/L | 0.100 | 5 | 3578 | 7071 | 0 |
| Mn | 55 | 433.637 | ug/L | 5.492 | 1 | 524 | 8562474 | 0 |
| [Co | 59 | 0.311 | ug/L | 0.005 | 1 | 35 | 4820 | 0 |
| [> Ge | 72 | | ug/L | | | 356014 | 347729 | 1 |
| Ni | 60 | 2.794 | ug/L | 0.019 | 0 | 58 | 7614 | 0 |
| Ni | 62 | 2.794 | ug/L | 0.049 | 1 | 858 | 1980 | 1 |
| Cu | 63 | 0.756 | ug/L | 0.015 | 2 | 717 | 5458 | 2 |
| Cu | 65 | 0.500 | ug/L | 0.015 | 2 | 115 | 1625 | 1 |
| Zn | 66 | 15.643 | ug/L | 0.037 | 0 | 264 | 31751 | 0 |
| Zn | 67 | 13.974 | ug/L | 0.236 | 1 | 274 | 4941 | 2 |
| Zn | 68 | 15.543 | ug/L | 0.055 | 0 | 6792 | 28765 | 0 |
| As-1 | 75 | 0.826 | ug/L | 0.002 | 0 | 438 | 2037 | 1 |
| As | 75 | 0.436 | ug/L | 0.078 | 17 | 9846 | 10459 | 0 |
| Se | 82 | 0.090 | ug/L | 0.096 | 106 | 5 | 22 | 80 |
| Se | 78 | -1.537 | ug/L | 0.342 | 22 | 9976 | 9049 | 0 |
| [Mo | 98 | 2.085 | ug/L | 0.046 | 2 | 30 | 13844 | 1 |
| Y | 89 | | ug/L | | | 271537 | 300913 | 1 |
| Kr | 83 | | ug/L | | | 231 | 237 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 371868 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.000 | 6 | 72 | 106 | 2 |
| Cd | 111 | -0.009 | ug/L | 0.007 | 74 | 177 | 140 | 13 |
| Cd | 114 | 0.007 | ug/L | 0.003 | 45 | 20 | 65 | 31 |
| Sb | 121 | 0.048 | ug/L | 0.002 | 5 | 153 | 675 | 4 |
| Sb | 123 | 0.045 | ug/L | 0.002 | 5 | 120 | 487 | 4 |
| Ba | 135 | 7.607 | ug/L | 0.065 | 0 | 25 | 17488 | 0 |
| [Ba | 137 | 7.498 | ug/L | 0.093 | 1 | 43 | 29101 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 345169 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 27 | 177 | 143 | 6 |
| Pb | 208 | 0.047 | ug/L | 0.001 | 1 | 562 | 2053 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 268768 | 0 |
| Th | 232 | 0.011 | ug/L | 0.001 | 4 | 265 | 680 | 2 |
| [U | 238 | 0.005 | ug/L | 0.000 | 7 | 45 | 234 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:24:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 276258 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.011 | 131 | 7 | 14 | 28 |
| C | 13 | | mg/L | | | 5188 | 7769 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3445308 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 299593 | 1 |
| V-1 | 51 | 6.250 | ug/L | 0.045 | 0 | 1664 | 84612 | 0 |
| V | 51 | 5.709 | ug/L | 0.075 | 1 | 10593 | 90175 | 0 |
| Cr | 52 | 1.226 | ug/L | 0.049 | 3 | 6396 | 22479 | 0 |
| Cr | 53 | -0.171 | ug/L | 0.149 | 87 | 3578 | 4319 | 3 |
| Mn | 55 | 461.553 | ug/L | 4.139 | 0 | 524 | 8965669 | 1 |
| Co | 59 | 0.804 | ug/L | 0.015 | 1 | 35 | 12178 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 343959 | 1 |
| Ni | 60 | 3.059 | ug/L | 0.083 | 2 | 58 | 8240 | 2 |
| Ni | 62 | 3.115 | ug/L | 0.079 | 2 | 858 | 2089 | 1 |
| Cu | 63 | 1.042 | ug/L | 0.009 | 0 | 717 | 7176 | 1 |
| Cu | 65 | 0.521 | ug/L | 0.022 | 4 | 115 | 1670 | 3 |
| Zn | 66 | 11.087 | ug/L | 0.082 | 0 | 264 | 22335 | 1 |
| Zn | 67 | 10.377 | ug/L | 0.016 | 0 | 274 | 3697 | 1 |
| Zn | 68 | 11.082 | ug/L | 0.198 | 1 | 6792 | 22172 | 1 |
| As-1 | 75 | 12.282 | ug/L | 0.115 | 0 | 438 | 24080 | 0 |
| As | 75 | 12.048 | ug/L | 0.184 | 1 | 9846 | 32565 | 0 |
| Se | 82 | 0.182 | ug/L | 0.088 | 48 | 5 | 38 | 40 |
| Se | 78 | -1.094 | ug/L | 0.371 | 33 | 9976 | 9148 | 0 |
| Mo | 98 | 1.912 | ug/L | 0.046 | 2 | 30 | 12558 | 1 |
| Y | 89 | | ug/L | | | 271537 | 306635 | 0 |
| Kr | 83 | | ug/L | | | 231 | 235 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 373311 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.001 | 10 | 72 | 158 | 5 |
| Cd | 111 | 0.020 | ug/L | 0.006 | 32 | 177 | 227 | 8 |
| Cd | 114 | 0.008 | ug/L | 0.002 | 24 | 20 | 76 | 18 |
| Sb | 121 | 0.079 | ug/L | 0.005 | 5 | 153 | 1023 | 4 |
| Sb | 123 | 0.076 | ug/L | 0.005 | 6 | 120 | 746 | 6 |
| Ba | 135 | 15.155 | ug/L | 0.163 | 1 | 25 | 34952 | 0 |
| Ba | 137 | 15.236 | ug/L | 0.144 | 0 | 43 | 59316 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 345185 | 1 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 492 | 177 | 170 | 12 |
| Pb | 208 | 0.087 | ug/L | 0.002 | 2 | 562 | 3296 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 264720 | 0 |
| Th | 232 | 0.023 | ug/L | 0.001 | 5 | 265 | 1163 | 4 |
| U | 238 | 0.008 | ug/L | 0.000 | 5 | 45 | 382 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 D REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:31:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

AF
Dec
BW
4/1

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 270253 | 2 |
| [Be | 9 | 0.042 | ug/L | 0.018 | 42 | 7 | 25 | 26 |
| C | 13 | | mg/L | | | 5188 | 5337 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3526600 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 254361 | 3 |
| V-1 | 51 | 22.168 | ug/L | 0.337 | 1 | 1664 | 250131 | 1 |
| V | 51 | 21.525 | ug/L | 0.348 | 1 | 10593 | 256863 | 1 |
| Cr | 52 | 4.595 | ug/L | 0.063 | 1 | 6396 | 52522 | 2 |
| Cr | 53 | 3.560 | ug/L | 0.141 | 3 | 3578 | 8087 | 1 |
| Mn | 55 | 70.005 | ug/L | 0.982 | 1 | 524 | 1154737 | 1 |
| Co | 59 | 0.186 | ug/L | 0.004 | 2 | 35 | 2425 | 5 |
| > Ge | 72 | | ug/L | | | 356014 | 336107 | 3 |
| Ni | 60 | 0.381 | ug/L | 0.010 | 2 | 58 | 1051 | 3 |
| Ni | 62 | 1.199 | ug/L | 0.313 | 26 | 858 | 1282 | 7 |
| Cu | 63 | 0.868 | ug/L | 0.017 | 1 | 717 | 5957 | 4 |
| Cu | 65 | 0.253 | ug/L | 0.011 | 4 | 115 | 847 | 1 |
| Zn | 66 | 2.053 | ug/L | 0.026 | 1 | 264 | 4243 | 1 |
| Zn | 67 | 2.811 | ug/L | 0.102 | 3 | 274 | 1167 | 2 |
| Zn | 68 | 1.877 | ug/L | 0.165 | 8 | 6792 | 8991 | 1 |
| As-1 | 75 | 1.611 | ug/L | 0.037 | 2 | 438 | 3445 | 1 |
| As | 75 | 1.326 | ug/L | 0.138 | 10 | 9846 | 11770 | 0 |
| Se | 82 | 0.328 | ug/L | 0.080 | 24 | 5 | 62 | 19 |
| Se | 78 | -0.820 | ug/L | 0.531 | 64 | 9976 | 9055 | 0 |
| Mo | 98 | 0.297 | ug/L | 0.010 | 3 | 30 | 1928 | 0 |
| Y | 89 | | ug/L | | | 271537 | 320155 | 2 |
| Kr | 83 | | ug/L | | | 231 | 237 | 1 |
| > In | 115 | | ug/L | | | 392029 | 357346 | 2 |
| Ag | 107 | 0.009 | ug/L | 0.001 | 13 | 72 | 170 | 10 |
| Cd | 111 | 0.005 | ug/L | 0.020 | 398 | 177 | 176 | 32 |
| Cd | 114 | 0.004 | ug/L | 0.001 | 30 | 20 | 47 | 20 |
| Sb | 121 | 0.010 | ug/L | 0.002 | 23 | 153 | 242 | 10 |
| Sb | 123 | 0.009 | ug/L | 0.003 | 28 | 120 | 183 | 11 |
| Ba | 135 | 2.829 | ug/L | 0.052 | 1 | 25 | 6266 | 3 |
| Ba | 137 | 2.817 | ug/L | 0.073 | 2 | 43 | 10532 | 4 |
| > Tb | 159 | | ug/L | | | 350924 | 339786 | 2 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 225 | 177 | 174 | 1 |
| Pb | 208 | 0.033 | ug/L | 0.001 | 3 | 562 | 1578 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 260587 | 2 |
| Th | 232 | 0.030 | ug/L | 0.001 | 4 | 265 | 1408 | 4 |
| U | 238 | 0.008 | ug/L | 0.000 | 4 | 45 | 380 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:37:54

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

ET
DLL
BW
4.1

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 278251 | 0 |
| [Be | 9 | 0.035 | ug/L | 0.016 | 45 | 7 | 24 | 23 |
| C | 13 | | mg/L | | | 5188 | 5252 | 3 |
| Cl | 37 | | mg/L | | | 4051958 | 3561276 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 263436 | 1 |
| V-1 | 51 | 21.596 | ug/L | 0.283 | 1 | 1664 | 252469 | 0 |
| V | 51 | 20.944 | ug/L | 0.254 | 1 | 10593 | 259218 | 0 |
| Cr | 52 | 4.443 | ug/L | 0.095 | 2 | 6396 | 52834 | 0 |
| Cr | 53 | 3.356 | ug/L | 0.016 | 0 | 3578 | 8128 | 1 |
| Mn | 55 | 68.128 | ug/L | 0.336 | 0 | 524 | 1164254 | 1 |
| [Co | 59 | 0.181 | ug/L | 0.006 | 3 | 35 | 2438 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 348091 | 1 |
| Ni | 60 | 0.393 | ug/L | 0.008 | 2 | 58 | 1121 | 2 |
| Ni | 62 | 1.165 | ug/L | 0.243 | 20 | 858 | 1316 | 8 |
| Cu | 63 | 0.880 | ug/L | 0.019 | 2 | 717 | 6245 | 2 |
| Cu | 65 | 0.296 | ug/L | 0.003 | 1 | 115 | 1009 | 0 |
| Zn | 66 | 1.644 | ug/L | 0.021 | 1 | 264 | 3571 | 2 |
| Zn | 67 | 2.513 | ug/L | 0.035 | 1 | 274 | 1109 | 1 |
| Zn | 68 | 1.224 | ug/L | 0.073 | 5 | 6792 | 8385 | 0 |
| As-1 | 75 | 1.522 | ug/L | 0.017 | 1 | 438 | 3394 | 1 |
| As | 75 | 1.159 | ug/L | 0.069 | 5 | 9846 | 11870 | 0 |
| Se | 82 | 0.198 | ug/L | 0.056 | 28 | 5 | 41 | 25 |
| Se | 78 | -1.303 | ug/L | 0.204 | 15 | 9976 | 9164 | 0 |
| [Mo | 98 | 0.329 | ug/L | 0.005 | 1 | 30 | 2214 | 0 |
| Y | 89 | | ug/L | | | 271537 | 327978 | 1 |
| Kr | 83 | | ug/L | | | 231 | 241 | 2 |
| > In | 115 | | ug/L | | | 392029 | 365988 | 0 |
| Ag | 107 | 0.009 | ug/L | 0.002 | 17 | 72 | 173 | 10 |
| Cd | 111 | 0.014 | ug/L | 0.034 | 248 | 177 | 206 | 48 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 51 | 20 | 38 | 24 |
| Sb | 121 | 0.010 | ug/L | 0.001 | 10 | 153 | 253 | 5 |
| Sb | 123 | 0.010 | ug/L | 0.002 | 19 | 120 | 191 | 7 |
| Ba | 135 | 2.690 | ug/L | 0.045 | 1 | 25 | 6101 | 1 |
| Ba | 137 | 2.672 | ug/L | 0.080 | 2 | 43 | 10232 | 2 |
| > Tb | 159 | | ug/L | | | 350924 | 347168 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 19 | 177 | 155 | 3 |
| Pb | 208 | 0.029 | ug/L | 0.001 | 3 | 562 | 1486 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 266333 | 0 |
| Th | 232 | 0.030 | ug/L | 0.001 | 3 | 265 | 1446 | 3 |
| [U | 238 | 0.009 | ug/L | 0.000 | 4 | 45 | 414 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:44:43

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 249388 | 0 |
| [Be | 9 | 51.103 | ug/L | 0.662 | 1 | 7 | 16851 | 2 |
| C | 13 | | mg/L | | | 5188 | 4274 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3284765 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 223658 | 1 |
| V-1 | 51 | 49.695 | ug/L | 0.504 | 1 | 1664 | 491203 | 0 |
| V | 51 | 49.387 | ug/L | 0.457 | 0 | 10593 | 505306 | 0 |
| Cr | 52 | 49.701 | ug/L | 0.484 | 0 | 6396 | 439866 | 0 |
| Cr | 53 | 48.755 | ug/L | 0.218 | 0 | 3578 | 54214 | 0 |
| Mn | 55 | 51.073 | ug/L | 0.712 | 1 | 524 | 741077 | 1 |
| Co | 59 | 50.803 | ug/L | 1.083 | 2 | 35 | 572493 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 313127 | 1 |
| Ni | 60 | 50.039 | ug/L | 0.752 | 1 | 58 | 121956 | 1 |
| Ni | 62 | 50.258 | ug/L | 0.727 | 1 | 858 | 19258 | 0 |
| Cu | 63 | 51.050 | ug/L | 0.463 | 0 | 717 | 289762 | 0 |
| Cu | 65 | 51.311 | ug/L | 0.544 | 1 | 115 | 139866 | 1 |
| Zn | 66 | 50.533 | ug/L | 0.630 | 1 | 264 | 91845 | 1 |
| Zn | 67 | 49.547 | ug/L | 0.732 | 1 | 274 | 15158 | 1 |
| Zn | 68 | 50.093 | ug/L | 0.384 | 0 | 6792 | 70201 | 0 |
| As-1 | 75 | 49.235 | ug/L | 0.452 | 0 | 438 | 86720 | 0 |
| As | 75 | 49.371 | ug/L | 0.442 | 0 | 9846 | 94662 | 0 |
| Se | 82 | 49.644 | ug/L | 1.123 | 2 | 5 | 8160 | 1 |
| Se | 78 | 50.421 | ug/L | 1.108 | 2 | 9976 | 29250 | 0 |
| Mo | 98 | 50.783 | ug/L | 0.470 | 0 | 30 | 303010 | 1 |
| Y | 89 | | ug/L | | | 271537 | 254214 | 0 |
| Kr | 83 | | ug/L | | | 231 | 240 | 2 |
| > In | 115 | | ug/L | | | 392029 | 338211 | 1 |
| Ag | 107 | 50.024 | ug/L | 0.196 | 0 | 72 | 571236 | 0 |
| Cd | 111 | 49.762 | ug/L | 0.591 | 1 | 177 | 133828 | 0 |
| Cd | 114 | 49.579 | ug/L | 0.283 | 0 | 20 | 314897 | 0 |
| Sb | 121 | 49.176 | ug/L | 0.457 | 0 | 153 | 493297 | 0 |
| Sb | 123 | 49.234 | ug/L | 0.428 | 0 | 120 | 369627 | 0 |
| Ba | 135 | 48.793 | ug/L | 0.181 | 0 | 25 | 101906 | 1 |
| Ba | 137 | 49.231 | ug/L | 0.404 | 0 | 43 | 173565 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 312444 | 1 |
| Tl | 205 | 46.704 | ug/L | 0.458 | 0 | 177 | 1051329 | 1 |
| Pb | 208 | 50.318 | ug/L | 0.525 | 1 | 562 | 1443994 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 244731 | 0 |
| Th | 232 | 46.509 | ug/L | 0.751 | 1 | 265 | 1627250 | 1 |
| U | 238 | 46.815 | ug/L | 0.161 | 0 | 45 | 1758173 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:52:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 248352 | 0 |
| [Be | 9 | -0.005 | ug/L | 0.014 | 268 | 7 | 8 | 52 |
| C | 13 | | mg/L | | | 5188 | 5275 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3347533 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 223713 | 1 |
| V-1 | 51 | -0.018 | ug/L | 0.029 | 160 | 1664 | 1404 | 19 |
| V | 51 | 0.463 | ug/L | 0.028 | 6 | 10593 | 5436 | 3 |
| Cr | 52 | -0.102 | ug/L | 0.007 | 7 | 6396 | 5198 | 1 |
| Cr | 53 | 1.466 | ug/L | 0.016 | 1 | 3578 | 1877 | 1 |
| Mn | 55 | 0.004 | ug/L | 0.002 | 39 | 524 | 560 | 3 |
| Co | 59 | 0.002 | ug/L | 0.000 | 20 | 35 | 59 | 8 |
| > Ge | 72 | | ug/L | | | 356014 | 310170 | 1 |
| Ni | 60 | -0.000 | ug/L | 0.004 | 3157 | 58 | 50 | 20 |
| Ni | 62 | 0.869 | ug/L | 0.057 | 6 | 858 | 430 | 3 |
| Cu | 63 | -0.043 | ug/L | 0.003 | 6 | 717 | 382 | 5 |
| Cu | 65 | 0.009 | ug/L | 0.008 | 82 | 115 | 125 | 14 |
| Zn | 66 | 0.000 | ug/L | 0.012 | 21420 | 264 | 230 | 10 |
| Zn | 67 | -0.336 | ug/L | 0.028 | 8 | 274 | 139 | 6 |
| Zn | 68 | 0.100 | ug/L | 0.114 | 113 | 6792 | 6043 | 1 |
| As-1 | 75 | 0.024 | ug/L | 0.004 | 16 | 438 | 424 | 0 |
| As | 75 | 0.170 | ug/L | 0.105 | 61 | 9846 | 8870 | 0 |
| Se | 82 | -0.061 | ug/L | 0.071 | 115 | 5 | -5 | 224 |
| Se | 78 | 0.702 | ug/L | 0.456 | 64 | 9976 | 8972 | 0 |
| Mo | 98 | 0.010 | ug/L | 0.003 | 26 | 30 | 88 | 16 |
| Y | 89 | | ug/L | | | 271537 | 251876 | 1 |
| Kr | 83 | | ug/L | | | 231 | 224 | 3 |
| > In | 115 | | ug/L | | | 392029 | 334303 | 1 |
| Ag | 107 | 0.004 | ug/L | 0.002 | 39 | 72 | 110 | 16 |
| Cd | 111 | -0.004 | ug/L | 0.009 | 253 | 177 | 141 | 16 |
| Cd | 114 | 0.003 | ug/L | 0.000 | 7 | 20 | 33 | 4 |
| Sb | 121 | 0.038 | ug/L | 0.009 | 23 | 153 | 510 | 16 |
| Sb | 123 | 0.043 | ug/L | 0.009 | 21 | 120 | 419 | 14 |
| Ba | 135 | 0.006 | ug/L | 0.002 | 35 | 25 | 33 | 13 |
| Ba | 137 | 0.002 | ug/L | 0.001 | 69 | 43 | 42 | 7 |
| > Tb | 159 | | ug/L | | | 350924 | 314141 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 24 | 177 | 187 | 3 |
| Pb | 208 | 0.003 | ug/L | 0.001 | 21 | 562 | 587 | 3 |
| Bi | 209 | | ug/L | | | 268890 | 251376 | 1 |
| Th | 232 | 0.007 | ug/L | 0.001 | 8 | 265 | 496 | 3 |
| U | 238 | 0.002 | ug/L | 0.000 | 11 | 45 | 105 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B-L REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Wednesday, March 31, 2010 19:59:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 256714 | 0 |
| [Be | 9 | -0.011 | ug/L | 0.006 | 52 | 7 | 6 | 28 |
| C | 13 | | mg/L | | | 5188 | 4336 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3298486 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 229148 | 1 |
| V-1 | 51 | 0.551 | ug/L | 0.007 | 1 | 1664 | 7186 | 1 |
| V | 51 | 0.078 | ug/L | 0.014 | 17 | 10593 | 11123 | 0 |
| Cr | 52 | 0.034 | ug/L | 0.001 | 2 | 6396 | 6538 | 1 |
| Cr | 53 | -1.395 | ug/L | 0.059 | 4 | 3578 | 1997 | 2 |
| Mn | 55 | 23.148 | ug/L | 0.401 | 1 | 524 | 344391 | 0 |
| [Co | 59 | 0.076 | ug/L | 0.002 | 2 | 35 | 917 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 318230 | 0 |
| Ni | 60 | 0.095 | ug/L | 0.001 | 0 | 58 | 287 | 0 |
| Ni | 62 | -1.019 | ug/L | 0.056 | 5 | 858 | 385 | 5 |
| Cu | 63 | 0.176 | ug/L | 0.002 | 1 | 717 | 1651 | 0 |
| Cu | 65 | 0.183 | ug/L | 0.020 | 11 | 115 | 610 | 9 |
| Zn | 66 | 1.224 | ug/L | 0.020 | 1 | 264 | 2491 | 1 |
| Zn | 67 | 0.877 | ug/L | 0.016 | 1 | 274 | 513 | 0 |
| Zn | 68 | 1.053 | ug/L | 0.108 | 10 | 6792 | 7443 | 1 |
| As-1 | 75 | 0.094 | ug/L | 0.014 | 14 | 438 | 559 | 4 |
| As | 75 | 0.054 | ug/L | 0.017 | 31 | 9846 | 8897 | 0 |
| Se | 82 | -0.045 | ug/L | 0.024 | 52 | 5 | -2 | 153 |
| Se | 78 | -0.118 | ug/L | 0.053 | 45 | 9976 | 8868 | 0 |
| [Mo | 98 | 0.094 | ug/L | 0.003 | 3 | 30 | 599 | 3 |
| Y | 89 | | ug/L | | | 271537 | 257998 | 0 |
| Kr | 83 | | ug/L | | | 231 | 223 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 343063 | 0 |
| Ag | 107 | 0.000 | ug/L | 0.000 | 78 | 72 | 67 | 5 |
| Cd | 111 | -0.002 | ug/L | 0.005 | 283 | 177 | 151 | 8 |
| Cd | 114 | 0.006 | ug/L | 0.000 | 6 | 20 | 57 | 4 |
| Sb | 121 | 0.009 | ug/L | 0.002 | 19 | 153 | 227 | 8 |
| Sb | 123 | 0.008 | ug/L | 0.003 | 34 | 120 | 167 | 12 |
| Ba | 135 | 0.732 | ug/L | 0.028 | 3 | 25 | 1572 | 3 |
| [Ba | 137 | 0.700 | ug/L | 0.028 | 3 | 43 | 2542 | 3 |
| [> Tb | 159 | | ug/L | | | 350924 | 320876 | 1 |
| Tl | 205 | -0.000 | ug/L | 0.000 | 230 | 177 | 160 | 0 |
| Pb | 208 | 0.038 | ug/L | 0.000 | 0 | 562 | 1632 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 258221 | 0 |
| Th | 232 | 0.002 | ug/L | 0.001 | 40 | 265 | 312 | 9 |
| [U | 238 | 0.002 | ug/L | 0.000 | 15 | 45 | 121 | 9 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:06:28

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 256769 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.007 | 276 | 7 | 11 | 22 |
| C | 13 | | mg/L | | | 5188 | 4773 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3255657 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 234695 | 0 |
| V-1 | 51 | 2.709 | ug/L | 0.037 | 1 | 1664 | 29672 | 0 |
| V | 51 | 2.214 | ug/L | 0.032 | 1 | 10593 | 33870 | 0 |
| Cr | 52 | 0.635 | ug/L | 0.007 | 1 | 6396 | 12199 | 0 |
| Cr | 53 | -0.778 | ug/L | 0.023 | 2 | 3578 | 2721 | 1 |
| Mn | 55 | 110.010 | ug/L | 2.150 | 1 | 524 | 1674493 | 1 |
| [Co | 59 | 0.228 | ug/L | 0.006 | 2 | 35 | 2729 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 313962 | 0 |
| Ni | 60 | 0.324 | ug/L | 0.010 | 3 | 58 | 842 | 2 |
| Ni | 62 | -0.884 | ug/L | 0.027 | 3 | 858 | 430 | 2 |
| Cu | 63 | 0.392 | ug/L | 0.009 | 2 | 717 | 2856 | 1 |
| Cu | 65 | 0.279 | ug/L | 0.031 | 11 | 115 | 865 | 9 |
| Zn | 66 | 1.655 | ug/L | 0.032 | 1 | 264 | 3241 | 1 |
| Zn | 67 | 1.343 | ug/L | 0.131 | 9 | 274 | 647 | 6 |
| Zn | 68 | 1.776 | ug/L | 0.025 | 1 | 6792 | 8273 | 0 |
| As-1 | 75 | 0.442 | ug/L | 0.021 | 4 | 438 | 1163 | 3 |
| As | 75 | 0.480 | ug/L | 0.015 | 3 | 9846 | 9521 | 0 |
| Se | 82 | 0.076 | ug/L | 0.021 | 28 | 5 | 17 | 20 |
| Se | 78 | 0.366 | ug/L | 0.155 | 42 | 9976 | 8946 | 0 |
| [Mo | 98 | 0.460 | ug/L | 0.013 | 2 | 30 | 2779 | 2 |
| Y | 89 | | ug/L | | | 271537 | 265811 | 0 |
| Kr | 83 | | ug/L | | | 231 | 226 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 335702 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.000 | 19 | 72 | 84 | 4 |
| Cd | 111 | -0.011 | ug/L | 0.007 | 69 | 177 | 123 | 16 |
| Cd | 114 | 0.007 | ug/L | 0.003 | 36 | 20 | 61 | 25 |
| Sb | 121 | 0.009 | ug/L | 0.000 | 5 | 153 | 219 | 2 |
| Sb | 123 | 0.005 | ug/L | 0.001 | 27 | 120 | 139 | 7 |
| Ba | 135 | 3.014 | ug/L | 0.029 | 0 | 25 | 6268 | 0 |
| [Ba | 137 | 3.007 | ug/L | 0.045 | 1 | 43 | 10557 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 316606 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 154 | 177 | 163 | 3 |
| Pb | 208 | 0.046 | ug/L | 0.001 | 2 | 562 | 1834 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 249384 | 0 |
| Th | 232 | 0.012 | ug/L | 0.001 | 4 | 265 | 649 | 2 |
| [U | 238 | 0.006 | ug/L | 0.000 | 5 | 45 | 283 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BDUP REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:13:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 260788 | 1 |
| [Be | 9 | -0.009 | ug/L | 0.008 | 86 | 7 | 7 | 33 |
| C | 13 | | mg/L | | | 5188 | 4757 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3237138 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 234544 | 1 |
| V-1 | 51 | 2.592 | ug/L | 0.026 | 0 | 1664 | 28443 | 1 |
| V | 51 | 2.098 | ug/L | 0.011 | 0 | 10593 | 32631 | 1 |
| Cr | 52 | 0.555 | ug/L | 0.016 | 2 | 6396 | 11464 | 0 |
| Cr | 53 | -0.855 | ug/L | 0.066 | 7 | 3578 | 2634 | 1 |
| Mn | 55 | 104.354 | ug/L | 0.166 | 0 | 524 | 1587433 | 1 |
| Co | 59 | 0.198 | ug/L | 0.004 | 2 | 35 | 2380 | 2 |
| > Ge | 72 | | ug/L | | | 356014 | 315913 | 0 |
| Ni | 60 | 0.292 | ug/L | 0.020 | 6 | 58 | 768 | 6 |
| Ni | 62 | -0.868 | ug/L | 0.042 | 4 | 858 | 439 | 2 |
| Cu | 63 | 0.483 | ug/L | 0.016 | 3 | 717 | 3395 | 3 |
| Cu | 65 | 0.367 | ug/L | 0.005 | 1 | 115 | 1111 | 2 |
| Zn | 66 | 0.932 | ug/L | 0.035 | 3 | 264 | 1939 | 4 |
| Zn | 67 | 0.709 | ug/L | 0.121 | 17 | 274 | 459 | 8 |
| Zn | 68 | 0.981 | ug/L | 0.129 | 13 | 6792 | 7295 | 1 |
| As-1 | 75 | 0.410 | ug/L | 0.021 | 5 | 438 | 1114 | 2 |
| As | 75 | 0.420 | ug/L | 0.030 | 7 | 9846 | 9474 | 0 |
| Se | 82 | 0.030 | ug/L | 0.143 | 480 | 5 | 9 | 240 |
| Se | 78 | 0.154 | ug/L | 0.119 | 77 | 9976 | 8915 | 0 |
| [Mo | 98 | 0.433 | ug/L | 0.013 | 2 | 30 | 2632 | 2 |
| Y | 89 | | ug/L | | | 271537 | 265378 | 1 |
| Kr | 83 | | ug/L | | | 231 | 220 | 8 |
| > In | 115 | | ug/L | | | 392029 | 338262 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 95 | 72 | 79 | 20 |
| Cd | 111 | -0.006 | ug/L | 0.006 | 99 | 177 | 137 | 11 |
| Cd | 114 | 0.005 | ug/L | 0.001 | 13 | 20 | 50 | 9 |
| Sb | 121 | 0.002 | ug/L | 0.001 | 37 | 153 | 155 | 5 |
| Sb | 123 | 0.001 | ug/L | 0.001 | 61 | 120 | 114 | 5 |
| Ba | 135 | 2.943 | ug/L | 0.044 | 1 | 25 | 6168 | 1 |
| [Ba | 137 | 2.919 | ug/L | 0.035 | 1 | 43 | 10328 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 321576 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 85 | 177 | 173 | 5 |
| Pb | 208 | 0.033 | ug/L | 0.002 | 5 | 562 | 1477 | 4 |
| Bi | 209 | | ug/L | | | 268890 | 251503 | 1 |
| Th | 232 | 0.009 | ug/L | 0.000 | 4 | 265 | 561 | 1 |
| [U | 238 | 0.006 | ug/L | 0.000 | 5 | 45 | 271 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BSPK REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:20:08

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 262070 | 0 |
| [Be | 9 | 5.621 | ug/L | 0.019 | 0 | 7 | 1957 | 0 |
| C | 13 | | mg/L | | | 5188 | 4893 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3231837 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 236943 | 0 |
| V-1 | 51 | 8.112 | ug/L | 0.078 | 0 | 1664 | 86355 | 0 |
| V | 51 | 7.613 | ug/L | 0.048 | 0 | 10593 | 91552 | 0 |
| Cr | 52 | 6.048 | ug/L | 0.105 | 1 | 6396 | 62362 | 0 |
| Cr | 53 | 4.622 | ug/L | 0.076 | 1 | 3578 | 8708 | 1 |
| Mn | 55 | 114.627 | ug/L | 0.798 | 0 | 524 | 1761455 | 0 |
| [Co | 59 | 5.645 | ug/L | 0.053 | 0 | 35 | 67430 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 318042 | 1 |
| Ni | 60 | 5.885 | ug/L | 0.213 | 3 | 58 | 14611 | 2 |
| Ni | 62 | 4.719 | ug/L | 0.288 | 6 | 858 | 2531 | 4 |
| Cu | 63 | 6.033 | ug/L | 0.084 | 1 | 717 | 35344 | 0 |
| Cu | 65 | 5.954 | ug/L | 0.055 | 0 | 115 | 16577 | 1 |
| Zn | 66 | 20.160 | ug/L | 0.184 | 0 | 264 | 37357 | 0 |
| Zn | 67 | 18.533 | ug/L | 0.244 | 1 | 274 | 5912 | 0 |
| Zn | 68 | 19.783 | ug/L | 0.436 | 2 | 6792 | 31827 | 0 |
| As-1 | 75 | 6.020 | ug/L | 0.120 | 1 | 438 | 11112 | 1 |
| As | 75 | 5.933 | ug/L | 0.099 | 1 | 9846 | 19292 | 0 |
| Se | 82 | 17.495 | ug/L | 0.429 | 2 | 5 | 2924 | 1 |
| Se | 78 | 17.525 | ug/L | 0.325 | 1 | 9976 | 16141 | 0 |
| [Mo | 98 | 0.461 | ug/L | 0.017 | 3 | 30 | 2821 | 3 |
| Y | 89 | | ug/L | | | 271537 | 270682 | 1 |
| Kr | 83 | | ug/L | | | 231 | 222 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 341679 | 0 |
| Ag | 107 | 3.467 | ug/L | 0.042 | 1 | 72 | 40051 | 0 |
| Cd | 111 | 5.475 | ug/L | 0.077 | 1 | 177 | 15013 | 1 |
| Cd | 114 | 5.512 | ug/L | 0.089 | 1 | 20 | 35390 | 2 |
| Sb | 121 | 0.003 | ug/L | 0.001 | 17 | 153 | 167 | 3 |
| Sb | 123 | 0.002 | ug/L | 0.001 | 46 | 120 | 118 | 4 |
| Ba | 135 | 8.652 | ug/L | 0.098 | 1 | 25 | 18273 | 0 |
| Ba | 137 | 8.629 | ug/L | 0.082 | 0 | 43 | 30766 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 326119 | 0 |
| Tl | 205 | 5.129 | ug/L | 0.022 | 0 | 177 | 120673 | 0 |
| Pb | 208 | 5.557 | ug/L | 0.033 | 0 | 562 | 166940 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 255212 | 1 |
| Th | 232 | 5.182 | ug/L | 0.041 | 0 | 265 | 189486 | 0 |
| [U | 238 | 5.215 | ug/L | 0.056 | 1 | 45 | 204446 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 F REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:27:59

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 270776 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.007 | 347 | 7 | 11 | 22 |
| C | 13 | | mg/L | | | 5188 | 4219 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3231231 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 246097 | 0 |
| V-1 | 51 | 3.864 | ug/L | 0.026 | 0 | 1664 | 43638 | 0 |
| V | 51 | 3.316 | ug/L | 0.022 | 0 | 10593 | 47682 | 0 |
| Cr | 52 | 0.879 | ug/L | 0.021 | 2 | 6396 | 15137 | 1 |
| Cr | 53 | -0.647 | ug/L | 0.039 | 6 | 3578 | 3003 | 1 |
| Mn | 55 | 141.645 | ug/L | 0.229 | 0 | 524 | 2260674 | 0 |
| [Co | 59 | 0.213 | ug/L | 0.002 | 1 | 35 | 2683 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 329786 | 0 |
| Ni | 60 | 1.084 | ug/L | 0.021 | 1 | 58 | 2834 | 2 |
| Ni | 62 | -0.225 | ug/L | 0.053 | 23 | 858 | 708 | 2 |
| Cu | 63 | 0.219 | ug/L | 0.010 | 4 | 717 | 1970 | 3 |
| Cu | 65 | 0.117 | ug/L | 0.010 | 8 | 115 | 441 | 6 |
| Zn | 66 | 5.207 | ug/L | 0.016 | 0 | 264 | 10187 | 0 |
| Zn | 67 | 4.564 | ug/L | 0.085 | 1 | 274 | 1701 | 1 |
| Zn | 68 | 5.057 | ug/L | 0.179 | 3 | 6792 | 13120 | 1 |
| As-1 | 75 | 2.657 | ug/L | 0.010 | 0 | 438 | 5313 | 0 |
| As | 75 | 2.523 | ug/L | 0.052 | 2 | 9846 | 13750 | 0 |
| Se | 82 | 0.009 | ug/L | 0.129 | 1386 | 5 | 6 | 323 |
| Se | 78 | -0.548 | ug/L | 0.187 | 34 | 9976 | 9006 | 0 |
| [Mo | 98 | 0.372 | ug/L | 0.013 | 3 | 30 | 2364 | 2 |
| Y | 89 | | ug/L | | | 271537 | 282467 | 0 |
| Kr | 83 | | ug/L | | | 231 | 229 | 6 |
| > In | 115 | | ug/L | | | 392029 | 354948 | 0 |
| [Ag | 107 | 0.002 | ug/L | 0.001 | 43 | 72 | 85 | 9 |
| Cd | 111 | -0.011 | ug/L | 0.013 | 119 | 177 | 129 | 27 |
| Cd | 114 | 0.004 | ug/L | 0.001 | 20 | 20 | 44 | 11 |
| Sb | 121 | 0.001 | ug/L | 0.002 | 399 | 153 | 144 | 16 |
| Sb | 123 | 0.001 | ug/L | 0.002 | 315 | 120 | 114 | 15 |
| Ba | 135 | 3.813 | ug/L | 0.088 | 2 | 25 | 8380 | 2 |
| [Ba | 137 | 3.912 | ug/L | 0.085 | 2 | 43 | 14510 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 336869 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 30 | 177 | 150 | 3 |
| Pb | 208 | 0.015 | ug/L | 0.002 | 10 | 562 | 1003 | 4 |
| Bi | 209 | | ug/L | | | 268890 | 264039 | 0 |
| Th | 232 | 0.007 | ug/L | 0.001 | 18 | 265 | 503 | 8 |
| [U | 238 | 0.003 | ug/L | 0.000 | 11 | 45 | 183 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:35:50

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 255431 | 0 |
| [Be | 9 | 0.007 | ug/L | 0.013 | 203 | 7 | 12 | 36 |
| C | 13 | | mg/L | | | 5188 | 5953 | 4 |
| Cl | 37 | | mg/L | | | 4051958 | 7155933 | 3 |
| [> Sc | 45 | | ug/L | | | 235104 | 241421 | 3 |
| V-1 | 51 | 1.698 | ug/L | 0.070 | 4 | 1664 | 19755 | 3 |
| V | 51 | 4.372 | ug/L | 0.229 | 5 | 10593 | 58266 | 7 |
| Cr | 52 | 0.795 | ug/L | 0.020 | 2 | 6396 | 14057 | 3 |
| Cr | 53 | 9.074 | ug/L | 0.783 | 8 | 3578 | 13904 | 10 |
| Mn | 55 | 500.745 | ug/L | 3.098 | 0 | 524 | 7838762 | 3 |
| [Co | 59 | 0.713 | ug/L | 0.015 | 2 | 35 | 8716 | 5 |
| [> Ge | 72 | | ug/L | | | 356014 | 309140 | 2 |
| Ni | 60 | 3.250 | ug/L | 0.093 | 2 | 58 | 7871 | 5 |
| Ni | 62 | 4.483 | ug/L | 0.793 | 17 | 858 | 2379 | 14 |
| Cu | 63 | 2.607 | ug/L | 0.056 | 2 | 717 | 15200 | 3 |
| Cu | 65 | 0.177 | ug/L | 0.017 | 9 | 115 | 576 | 6 |
| Zn | 66 | 9.096 | ug/L | 0.199 | 2 | 264 | 16514 | 3 |
| Zn | 67 | 8.415 | ug/L | 0.100 | 1 | 274 | 2739 | 2 |
| Zn | 68 | 9.613 | ug/L | 0.180 | 1 | 6792 | 18070 | 3 |
| As-1 | 75 | 0.769 | ug/L | 0.008 | 1 | 438 | 1712 | 1 |
| As | 75 | 0.526 | ug/L | 0.100 | 19 | 9846 | 9451 | 0 |
| Se | 82 | 2.579 | ug/L | 0.112 | 4 | 5 | 423 | 5 |
| Se | 78 | 1.898 | ug/L | 0.311 | 16 | 9976 | 9421 | 0 |
| [Mo | 98 | 1.811 | ug/L | 0.011 | 0 | 30 | 10692 | 1 |
| Y | 89 | | ug/L | | | 271537 | 264873 | 0 |
| Kr | 83 | | ug/L | | | 231 | 250 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 327209 | 2 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 17 | 72 | 121 | 6 |
| Cd | 111 | -0.235 | ug/L | 0.063 | 26 | 177 | -460 | 33 |
| Cd | 114 | 0.017 | ug/L | 0.001 | 6 | 20 | 123 | 3 |
| Sb | 121 | 0.046 | ug/L | 0.007 | 14 | 153 | 570 | 9 |
| Sb | 123 | 0.045 | ug/L | 0.002 | 3 | 120 | 429 | 5 |
| Ba | 135 | 14.607 | ug/L | 0.023 | 0 | 25 | 29529 | 2 |
| [Ba | 137 | 14.845 | ug/L | 0.115 | 0 | 43 | 50665 | 3 |
| [> Tb | 159 | | ug/L | | | 350924 | 312792 | 1 |
| Tl | 205 | -0.002 | ug/L | 0.001 | 39 | 177 | 123 | 9 |
| Pb | 208 | 0.072 | ug/L | 0.003 | 4 | 562 | 2564 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 229787 | 1 |
| Th | 232 | 0.006 | ug/L | 0.001 | 12 | 265 | 441 | 5 |
| [U | 238 | 0.006 | ug/L | 0.001 | 16 | 45 | 272 | 13 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:42:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 186084 | 271893 | 0 |
| [| Be | 9 | -0.003 | ug/L | 0.013 | 471 | 7 | 10 | 45 |
| | C | 13 | | mg/L | | | 5188 | 5224 | 0 |
| | Cl | 37 | | mg/L | | | 4051958 | 3384375 | 0 |
| [> | Sc | 45 | | ug/L | | | 235104 | 260553 | 1 |
| | V-1 | 51 | 4.537 | ug/L | 0.036 | 0 | 1664 | 53924 | 1 |
| | V | 51 | 4.151 | ug/L | 0.010 | 0 | 10593 | 60234 | 0 |
| | Cr | 52 | 0.787 | ug/L | 0.034 | 4 | 6396 | 15087 | 1 |
| | Cr | 53 | -0.199 | ug/L | 0.150 | 75 | 3578 | 3722 | 3 |
| | Mn | 55 | 641.371 | ug/L | 3.439 | 0 | 524 | 10835446 | 1 |
| [| Co | 59 | 0.490 | ug/L | 0.009 | 1 | 35 | 6478 | 3 |
| [> | Ge | 72 | | ug/L | | | 356014 | 332468 | 0 |
| | Ni | 60 | 1.128 | ug/L | 0.027 | 2 | 58 | 2973 | 2 |
| | Ni | 62 | 1.223 | ug/L | 0.102 | 8 | 858 | 1279 | 3 |
| | Cu | 63 | 0.720 | ug/L | 0.018 | 2 | 717 | 4998 | 1 |
| | Cu | 65 | 0.440 | ug/L | 0.010 | 2 | 115 | 1382 | 2 |
| | Zn | 66 | 4.190 | ug/L | 0.100 | 2 | 264 | 8310 | 1 |
| | Zn | 67 | 3.798 | ug/L | 0.033 | 0 | 274 | 1470 | 1 |
| | Zn | 68 | 4.111 | ug/L | 0.113 | 2 | 6792 | 11939 | 0 |
| | As-1 | 75 | 3.547 | ug/L | 0.057 | 1 | 438 | 7012 | 0 |
| | As | 75 | 3.382 | ug/L | 0.072 | 2 | 9846 | 15450 | 0 |
| | Se | 82 | 0.240 | ug/L | 0.124 | 51 | 5 | 46 | 45 |
| | Se | 78 | -0.495 | ug/L | 0.131 | 26 | 9976 | 9102 | 0 |
| [| Mo | 98 | 1.247 | ug/L | 0.007 | 0 | 30 | 7929 | 0 |
| | Y | 89 | | ug/L | | | 271537 | 284261 | 0 |
| | Kr | 83 | | ug/L | | | 231 | 226 | 5 |
| [> | In | 115 | | ug/L | | | 392029 | 353974 | 1 |
| | Ag | 107 | 0.000 | ug/L | 0.001 | 331 | 72 | 67 | 14 |
| | Cd | 111 | -0.018 | ug/L | 0.020 | 109 | 177 | 109 | 52 |
| | Cd | 114 | 0.008 | ug/L | 0.002 | 23 | 20 | 73 | 16 |
| | Sb | 121 | 0.021 | ug/L | 0.003 | 12 | 153 | 360 | 8 |
| | Sb | 123 | 0.020 | ug/L | 0.003 | 16 | 120 | 266 | 8 |
| | Ba | 135 | 6.255 | ug/L | 0.048 | 0 | 25 | 13692 | 1 |
| [| Ba | 137 | 6.315 | ug/L | 0.094 | 1 | 43 | 23332 | 0 |
| [> | Tb | 159 | | ug/L | | | 350924 | 335826 | 0 |
| | Tl | 205 | -0.000 | ug/L | 0.000 | 71 | 177 | 159 | 4 |
| | Pb | 208 | 0.055 | ug/L | 0.003 | 6 | 562 | 2225 | 5 |
| | Bi | 209 | | ug/L | | | 268890 | 262272 | 0 |
| | Th | 232 | 0.010 | ug/L | 0.002 | 18 | 265 | 648 | 11 |
| [| U | 238 | 0.007 | ug/L | 0.000 | 6 | 45 | 336 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 E REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:49:34

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

CS

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 274942 | 0 |
| [Be | 9 | 0.000 | ug/L | 0.006 | 1276 | 7 | 11 | 19 |
| C | 13 | | mg/L | | | 5188 | 6017 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 5252392 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 252434 | 0 |
| V-1 | 51 | 2.544 | ug/L | 0.046 | 1 | 1664 | 30077 | 0 |
| V | 51 | 3.249 | ug/L | 0.017 | 0 | 10593 | 48151 | 1 |
| Cr | 52 | 0.788 | ug/L | 0.007 | 0 | 6396 | 14631 | 1 |
| Cr | 53 | 3.052 | ug/L | 0.178 | 5 | 3578 | 7433 | 3 |
| Mn | 55 | 340.506 | ug/L | 3.876 | 1 | 524 | 5573428 | 0 |
| [Co | 59 | 0.679 | ug/L | 0.023 | 3 | 35 | 8670 | 2 |
| > Ge | 72 | | ug/L | | | 356014 | 327195 | 1 |
| Ni | 60 | 8.554 | ug/L | 0.200 | 2 | 58 | 21826 | 1 |
| Ni | 62 | 10.604 | ug/L | 1.065 | 10 | 858 | 4872 | 9 |
| Cu | 63 | 1.934 | ug/L | 0.027 | 1 | 717 | 12107 | 2 |
| Cu | 65 | 0.341 | ug/L | 0.002 | 0 | 115 | 1078 | 1 |
| Zn | 66 | 21.024 | ug/L | 0.127 | 0 | 264 | 40071 | 1 |
| Zn | 67 | 19.016 | ug/L | 0.052 | 0 | 274 | 6234 | 1 |
| Zn | 68 | 21.056 | ug/L | 0.328 | 1 | 6792 | 34456 | 2 |
| As-1 | 75 | 0.623 | ug/L | 0.031 | 5 | 438 | 1544 | 4 |
| As | 75 | 0.275 | ug/L | 0.004 | 1 | 9846 | 9550 | 1 |
| Se | 82 | 1.399 | ug/L | 0.102 | 7 | 5 | 245 | 6 |
| Se | 78 | 0.147 | ug/L | 0.131 | 88 | 9976 | 9230 | 0 |
| [Mo | 98 | 2.507 | ug/L | 0.060 | 2 | 30 | 15658 | 1 |
| Y | 89 | | ug/L | | | 271537 | 280477 | 1 |
| Kr | 83 | | ug/L | | | 231 | 248 | 1 |
| > In | 115 | | ug/L | | | 392029 | 343613 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.001 | 45 | 72 | 95 | 15 |
| Cd | 111 | -0.098 | ug/L | 0.019 | 18 | 177 | -113 | 45 |
| Cd | 114 | 0.008 | ug/L | 0.001 | 13 | 20 | 69 | 9 |
| Sb | 121 | 0.083 | ug/L | 0.005 | 6 | 153 | 975 | 4 |
| Sb | 123 | 0.083 | ug/L | 0.003 | 3 | 120 | 738 | 2 |
| Ba | 135 | 7.306 | ug/L | 0.037 | 0 | 25 | 15523 | 1 |
| [Ba | 137 | 7.287 | ug/L | 0.093 | 1 | 43 | 26130 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 327762 | 1 |
| Tl | 205 | -0.002 | ug/L | 0.000 | 23 | 177 | 116 | 10 |
| Pb | 208 | 0.062 | ug/L | 0.005 | 7 | 562 | 2397 | 5 |
| Bi | 209 | | ug/L | | | 268890 | 247090 | 0 |
| Th | 232 | 0.005 | ug/L | 0.000 | 6 | 265 | 418 | 3 |
| [U | 238 | 0.007 | ug/L | 0.000 | 2 | 45 | 315 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 20:56:22

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

DE

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 272975 | 1 |
| [Be | 9 | -0.006 | ug/L | 0.007 | 104 | 7 | 8 | 28 |
| C | 13 | | mg/L | | | 5188 | 6326 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3275102 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 261480 | 0 |
| V-1 | 51 | 4.829 | ug/L | 0.049 | 1 | 1664 | 57474 | 0 |
| V | 51 | 4.355 | ug/L | 0.046 | 1 | 10593 | 62838 | 0 |
| Cr | 52 | 0.653 | ug/L | 0.016 | 2 | 6396 | 13780 | 1 |
| Cr | 53 | -0.580 | ug/L | 0.048 | 8 | 3578 | 3272 | 1 |
| Mn | 55 | 236.433 | ug/L | 5.225 | 2 | 524 | 4008768 | 1 |
| [Co | 59 | 1.291 | ug/L | 0.015 | 1 | 35 | 17053 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 341343 | 1 |
| Ni | 60 | 0.806 | ug/L | 0.019 | 2 | 58 | 2196 | 2 |
| Ni | 62 | 1.234 | ug/L | 0.297 | 24 | 858 | 1317 | 8 |
| Cu | 63 | 0.652 | ug/L | 0.023 | 3 | 717 | 4715 | 2 |
| Cu | 65 | 0.464 | ug/L | 0.008 | 1 | 115 | 1489 | 1 |
| Zn | 66 | 1.603 | ug/L | 0.010 | 0 | 264 | 3421 | 1 |
| Zn | 67 | 1.647 | ug/L | 0.058 | 3 | 274 | 803 | 1 |
| Zn | 68 | 1.592 | ug/L | 0.077 | 4 | 6792 | 8736 | 1 |
| As-1 | 75 | 7.383 | ug/L | 0.046 | 0 | 438 | 14534 | 0 |
| As | 75 | 7.239 | ug/L | 0.092 | 1 | 9846 | 23185 | 0 |
| Se | 82 | 0.102 | ug/L | 0.090 | 88 | 5 | 23 | 69 |
| Se | 78 | -0.668 | ug/L | 0.115 | 17 | 9976 | 9268 | 0 |
| [Mo | 98 | 1.572 | ug/L | 0.007 | 0 | 30 | 10252 | 0 |
| Y | 89 | | ug/L | | | 271537 | 292931 | 0 |
| Kr | 83 | | ug/L | | | 231 | 231 | 0 |
| > In | 115 | | ug/L | | | 392029 | 366551 | 0 |
| [Ag | 107 | 0.006 | ug/L | 0.002 | 24 | 72 | 145 | 12 |
| Cd | 111 | 0.061 | ug/L | 0.015 | 24 | 177 | 344 | 12 |
| Cd | 114 | 0.043 | ug/L | 0.001 | 3 | 20 | 316 | 2 |
| Sb | 121 | 0.042 | ug/L | 0.003 | 6 | 153 | 601 | 4 |
| Sb | 123 | 0.034 | ug/L | 0.004 | 12 | 120 | 390 | 8 |
| Ba | 135 | 6.947 | ug/L | 0.084 | 1 | 25 | 15746 | 1 |
| [Ba | 137 | 6.960 | ug/L | 0.020 | 0 | 43 | 26628 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 344214 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 36 | 177 | 242 | 11 |
| Pb | 208 | 0.074 | ug/L | 0.006 | 8 | 562 | 2885 | 7 |
| Bi | 209 | | ug/L | | | 268890 | 272509 | 0 |
| Th | 232 | 0.022 | ug/L | 0.002 | 9 | 265 | 1094 | 6 |
| [U | 238 | 0.008 | ug/L | 0.001 | 10 | 45 | 393 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:03:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

CS

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 246320 | 0 |
| [Be | 9 | 0.004 | ug/L | 0.004 | 95 | 7 | 11 | 11 |
| C | 13 | | mg/L | | | 5188 | 6225 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 15179289 | 2 |
| [> Sc | 45 | | ug/L | | | 235104 | 259238 | 2 |
| V-1 | 51 | 0.579 | ug/L | 0.115 | 19 | 1664 | 8460 | 17 |
| V | 51 | 6.178 | ug/L | 0.029 | 0 | 10593 | 83483 | 1 |
| Cr | 52 | 0.590 | ug/L | 0.054 | 9 | 6396 | 13011 | 1 |
| Cr | 53 | 17.818 | ug/L | 0.456 | 2 | 3578 | 25462 | 1 |
| Mn | 55 | 641.841 | ug/L | 7.175 | 1 | 524 | 10787060 | 1 |
| [Co | 59 | 0.555 | ug/L | 0.008 | 1 | 35 | 7281 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 327278 | 1 |
| Ni | 60 | 2.193 | ug/L | 0.091 | 4 | 58 | 5638 | 5 |
| Ni | 62 | 19.661 | ug/L | 8.644 | 43 | 858 | 8385 | 41 |
| Cu | 63 | 6.717 | ug/L | 0.699 | 10 | 717 | 40461 | 11 |
| Cu | 65 | 0.437 | ug/L | 0.016 | 3 | 115 | 1351 | 4 |
| Zn | 66 | 3.888 | ug/L | 0.050 | 1 | 264 | 7608 | 0 |
| Zn | 67 | 4.991 | ug/L | 0.145 | 2 | 274 | 1822 | 2 |
| Zn | 68 | 5.189 | ug/L | 0.102 | 1 | 6792 | 13196 | 0 |
| As-1 | 75 | 1.140 | ug/L | 0.087 | 7 | 438 | 2492 | 7 |
| As | 75 | 0.477 | ug/L | 0.063 | 13 | 9846 | 9921 | 2 |
| Se | 82 | 3.999 | ug/L | 0.170 | 4 | 5 | 692 | 5 |
| Se | 78 | 1.887 | ug/L | 0.036 | 1 | 9976 | 9971 | 1 |
| [Mo | 98 | 1.656 | ug/L | 0.018 | 1 | 30 | 10352 | 0 |
| Y | 89 | | ug/L | | | 271537 | 279811 | 1 |
| Kr | 83 | | ug/L | | | 231 | 320 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 352261 | 1 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 10 | 72 | 128 | 5 |
| Cd | 111 | -0.423 | ug/L | 0.134 | 31 | 177 | -1025 | 38 |
| Cd | 114 | 0.014 | ug/L | 0.002 | 12 | 20 | 109 | 11 |
| Sb | 121 | 0.033 | ug/L | 0.002 | 4 | 153 | 486 | 4 |
| Sb | 123 | 0.033 | ug/L | 0.005 | 13 | 120 | 368 | 10 |
| Ba | 135 | 51.285 | ug/L | 0.735 | 1 | 25 | 111563 | 2 |
| [Ba | 137 | 51.620 | ug/L | 0.141 | 0 | 43 | 189554 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 323796 | 2 |
| Tl | 205 | -0.002 | ug/L | 0.002 | 82 | 177 | 115 | 32 |
| Pb | 208 | 0.097 | ug/L | 0.007 | 7 | 562 | 3390 | 4 |
| Bi | 209 | | ug/L | | | 268890 | 227272 | 1 |
| Th | 232 | 0.001 | ug/L | 0.001 | 53 | 265 | 288 | 10 |
| [U | 238 | 0.004 | ug/L | 0.000 | 10 | 45 | 187 | 10 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:09:54

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 241694 | 2 |
| [Be | 9 | 51.988 | ug/L | 0.519 | 0 | 7 | 16611 | 2 |
| C | 13 | | mg/L | | | 5188 | 4333 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3728889 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 237650 | 0 |
| V-1 | 51 | 50.323 | ug/L | 0.517 | 1 | 1664 | 528523 | 0 |
| V | 51 | 50.560 | ug/L | 0.547 | 1 | 10593 | 549423 | 0 |
| Cr | 52 | 50.377 | ug/L | 0.619 | 1 | 6396 | 473656 | 1 |
| Cr | 53 | 51.103 | ug/L | 1.034 | 2 | 3578 | 60206 | 1 |
| Mn | 55 | 50.774 | ug/L | 0.321 | 0 | 524 | 782873 | 0 |
| Co | 59 | 51.254 | ug/L | 0.457 | 0 | 35 | 613766 | 0 |
| > Ge | 72 | | ug/L | | | 356014 | 340278 | 0 |
| Ni | 60 | 49.798 | ug/L | 0.422 | 0 | 58 | 131899 | 1 |
| Ni | 62 | 63.993 | ug/L | 1.525 | 2 | 858 | 26423 | 1 |
| Cu | 63 | 51.728 | ug/L | 0.713 | 1 | 717 | 319087 | 1 |
| Cu | 65 | 50.956 | ug/L | 0.125 | 0 | 115 | 150945 | 0 |
| Zn | 66 | 49.929 | ug/L | 0.228 | 0 | 264 | 98621 | 0 |
| Zn | 67 | 50.354 | ug/L | 0.987 | 1 | 274 | 16738 | 2 |
| Zn | 68 | 50.219 | ug/L | 0.795 | 1 | 6792 | 76467 | 1 |
| As-1 | 75 | 49.432 | ug/L | 0.773 | 1 | 438 | 94624 | 1 |
| As | 75 | 49.758 | ug/L | 0.716 | 1 | 9846 | 103611 | 1 |
| Se | 82 | 48.846 | ug/L | 0.387 | 0 | 5 | 8727 | 1 |
| Se | 78 | 50.318 | ug/L | 0.088 | 0 | 9976 | 31744 | 0 |
| Mo | 98 | 50.324 | ug/L | 1.053 | 2 | 30 | 326333 | 2 |
| Y | 89 | | ug/L | | | 271537 | 269008 | 1 |
| Kr | 83 | | ug/L | | | 231 | 246 | 3 |
| > In | 115 | | ug/L | | | 392029 | 364853 | 1 |
| Ag | 107 | 50.375 | ug/L | 0.337 | 0 | 72 | 620529 | 1 |
| Cd | 111 | 49.707 | ug/L | 0.386 | 0 | 177 | 144227 | 2 |
| Cd | 114 | 49.354 | ug/L | 0.544 | 1 | 20 | 338213 | 2 |
| Sb | 121 | 49.233 | ug/L | 0.451 | 0 | 153 | 532745 | 1 |
| Sb | 123 | 49.118 | ug/L | 0.398 | 0 | 120 | 397783 | 1 |
| Ba | 135 | 49.356 | ug/L | 0.603 | 1 | 25 | 111188 | 0 |
| Ba | 137 | 49.899 | ug/L | 0.426 | 0 | 43 | 189764 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 332242 | 0 |
| Tl | 205 | 45.724 | ug/L | 0.357 | 0 | 177 | 1094614 | 1 |
| Pb | 208 | 49.342 | ug/L | 0.080 | 0 | 562 | 1505916 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 256251 | 2 |
| Th | 232 | 45.201 | ug/L | 0.235 | 0 | 265 | 1681947 | 1 |
| U | 238 | 44.728 | ug/L | 0.128 | 0 | 45 | 1786286 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:17:21

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 224299 | 1 |
| [Be | 9 | 0.021 | ug/L | 0.030 | 143 | 7 | 15 | 59 |
| C | 13 | | mg/L | | | 5188 | 5084 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3608627 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 232122 | 0 |
| V-1 | 51 | -0.000 | ug/L | 0.028 | 6182 | 1664 | 1638 | 17 |
| V | 51 | 0.032 | ug/L | 0.056 | 175 | 10593 | 10790 | 5 |
| Cr | 52 | -0.043 | ug/L | 0.005 | 10 | 6396 | 5923 | 0 |
| Cr | 53 | 0.058 | ug/L | 0.239 | 408 | 3578 | 3596 | 7 |
| Mn | 55 | 0.083 | ug/L | 0.038 | 45 | 524 | 1759 | 32 |
| Co | 59 | 0.027 | ug/L | 0.023 | 83 | 35 | 352 | 74 |
| [> Ge | 72 | | ug/L | | | 356014 | 335074 | 0 |
| Ni | 60 | 0.030 | ug/L | 0.018 | 58 | 58 | 132 | 33 |
| Ni | 62 | 6.546 | ug/L | 1.038 | 15 | 858 | 3384 | 11 |
| Cu | 63 | 0.424 | ug/L | 0.072 | 16 | 717 | 3245 | 12 |
| Cu | 65 | 0.034 | ug/L | 0.020 | 59 | 115 | 207 | 27 |
| Zn | 66 | 0.041 | ug/L | 0.029 | 70 | 264 | 328 | 16 |
| Zn | 67 | -0.075 | ug/L | 0.037 | 49 | 274 | 234 | 4 |
| Zn | 68 | 0.371 | ug/L | 0.090 | 24 | 6792 | 6902 | 1 |
| As-1 | 75 | 0.058 | ug/L | 0.025 | 43 | 438 | 520 | 8 |
| As | 75 | 0.317 | ug/L | 0.058 | 18 | 9846 | 9858 | 0 |
| Se | 82 | 0.059 | ug/L | 0.078 | 130 | 5 | 15 | 86 |
| Se | 78 | 1.289 | ug/L | 0.204 | 15 | 9976 | 9949 | 0 |
| [Mo | 98 | 0.059 | ug/L | 0.037 | 61 | 30 | 407 | 56 |
| Y | 89 | | ug/L | | | 271537 | 264186 | 0 |
| Kr | 83 | | ug/L | | | 231 | 238 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 364163 | 0 |
| Ag | 107 | 0.026 | ug/L | 0.018 | 68 | 72 | 391 | 56 |
| Cd | 111 | 0.024 | ug/L | 0.024 | 100 | 177 | 235 | 30 |
| Cd | 114 | 0.028 | ug/L | 0.022 | 78 | 20 | 212 | 71 |
| Sb | 121 | 0.169 | ug/L | 0.085 | 50 | 153 | 1975 | 47 |
| Sb | 123 | 0.166 | ug/L | 0.076 | 45 | 120 | 1452 | 42 |
| Ba | 135 | 0.027 | ug/L | 0.019 | 70 | 25 | 85 | 51 |
| Ba | 137 | 0.030 | ug/L | 0.018 | 59 | 43 | 152 | 44 |
| [> Tb | 159 | | ug/L | | | 350924 | 329408 | 0 |
| Tl | 205 | 0.028 | ug/L | 0.021 | 74 | 177 | 843 | 60 |
| Pb | 208 | 0.040 | ug/L | 0.026 | 64 | 562 | 1741 | 45 |
| Bi | 209 | | ug/L | | | 268890 | 254525 | 0 |
| Th | 232 | 0.039 | ug/L | 0.022 | 55 | 265 | 1684 | 48 |
| [U | 238 | 0.026 | ug/L | 0.017 | 65 | 45 | 1066 | 62 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:24:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 226735 | 0 |
| [Be | 9 | 0.010 | ug/L | 0.017 | 171 | 7 | 12 | 41 |
| C | 13 | | mg/L | | | 5188 | 4484 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3582869 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 249212 | 1 |
| V-1 | 51 | 0.842 | ug/L | 0.009 | 1 | 1664 | 11011 | 0 |
| V | 51 | 0.755 | ug/L | 0.047 | 6 | 10593 | 19659 | 1 |
| Cr | 52 | 0.107 | ug/L | 0.006 | 5 | 6396 | 7820 | 0 |
| Cr | 53 | -0.123 | ug/L | 0.128 | 104 | 3578 | 3649 | 3 |
| Mn | 55 | 98.110 | ug/L | 0.659 | 0 | 524 | 1585767 | 0 |
| Co | 59 | 0.070 | ug/L | 0.002 | 2 | 35 | 917 | 3 |
| > Ge | 72 | | ug/L | | | 356014 | 341910 | 0 |
| Ni | 60 | 0.302 | ug/L | 0.006 | 1 | 58 | 858 | 1 |
| Ni | 62 | 3.309 | ug/L | 0.535 | 16 | 858 | 2155 | 10 |
| Cu | 63 | 0.506 | ug/L | 0.041 | 8 | 717 | 3817 | 6 |
| Cu | 65 | 0.146 | ug/L | 0.006 | 4 | 115 | 545 | 2 |
| Zn | 66 | 1.048 | ug/L | 0.018 | 1 | 264 | 2328 | 1 |
| Zn | 67 | 1.032 | ug/L | 0.069 | 6 | 274 | 602 | 3 |
| Zn | 68 | 1.558 | ug/L | 0.031 | 1 | 6792 | 8704 | 1 |
| As-1 | 75 | 3.298 | ug/L | 0.054 | 1 | 438 | 6735 | 1 |
| As | 75 | 3.544 | ug/L | 0.055 | 1 | 9846 | 16196 | 0 |
| Se | 82 | 0.039 | ug/L | 0.042 | 109 | 5 | 12 | 61 |
| Se | 78 | 1.138 | ug/L | 0.231 | 20 | 9976 | 10085 | 0 |
| [Mo | 98 | 0.282 | ug/L | 0.006 | 2 | 30 | 1869 | 2 |
| Y | 89 | | ug/L | | | 271537 | 272023 | 0 |
| Kr | 83 | | ug/L | | | 231 | 247 | 1 |
| > In | 115 | | ug/L | | | 392029 | 371950 | 0 |
| Ag | 107 | 0.011 | ug/L | 0.001 | 8 | 72 | 206 | 5 |
| Cd | 111 | 0.032 | ug/L | 0.005 | 14 | 177 | 263 | 5 |
| Cd | 114 | 0.034 | ug/L | 0.001 | 3 | 20 | 256 | 3 |
| Sb | 121 | 0.154 | ug/L | 0.012 | 8 | 153 | 1843 | 7 |
| Sb | 123 | 0.156 | ug/L | 0.010 | 6 | 120 | 1400 | 5 |
| Ba | 135 | 3.798 | ug/L | 0.082 | 2 | 25 | 8746 | 2 |
| Ba | 137 | 3.816 | ug/L | 0.077 | 2 | 43 | 14832 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 336586 | 0 |
| Tl | 205 | 0.011 | ug/L | 0.001 | 10 | 177 | 425 | 6 |
| Pb | 208 | 0.038 | ug/L | 0.007 | 17 | 562 | 1726 | 12 |
| Bi | 209 | | ug/L | | | 268890 | 257348 | 1 |
| Th | 232 | 0.017 | ug/L | 0.001 | 5 | 265 | 882 | 4 |
| [U | 238 | 0.010 | ug/L | 0.000 | 2 | 45 | 442 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:31:33

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

AG

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 231091 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.020 | 267 | 7 | 11 | 53 |
| C | 13 | | mg/L | | | 5188 | 6822 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3724310 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 295976 | 1 |
| V-1 | 51 | 3.526 | ug/L | 0.058 | 1 | 1664 | 48070 | 0 |
| V | 51 | 3.360 | ug/L | 0.092 | 2 | 10593 | 57910 | 0 |
| Cr | 52 | 0.721 | ug/L | 0.015 | 2 | 6396 | 16373 | 0 |
| Cr | 53 | 0.358 | ug/L | 0.119 | 33 | 3578 | 4996 | 1 |
| Mn | 55 | 435.620 | ug/L | 5.570 | 1 | 524 | 8359479 | 1 |
| [Co | 59 | 0.310 | ug/L | 0.007 | 2 | 35 | 4663 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 348642 | 0 |
| Ni | 60 | 1.331 | ug/L | 0.011 | 0 | 58 | 3666 | 1 |
| Ni | 62 | 3.088 | ug/L | 0.286 | 9 | 858 | 2106 | 5 |
| Cu | 63 | 3.065 | ug/L | 0.060 | 1 | 717 | 20035 | 2 |
| Cu | 65 | 2.380 | ug/L | 0.102 | 4 | 115 | 7332 | 4 |
| Zn | 66 | 2.467 | ug/L | 0.074 | 2 | 264 | 5238 | 3 |
| Zn | 67 | 2.855 | ug/L | 0.052 | 1 | 274 | 1226 | 2 |
| Zn | 68 | 3.450 | ug/L | 0.117 | 3 | 6792 | 11578 | 2 |
| As-1 | 75 | 15.759 | ug/L | 0.210 | 1 | 438 | 31198 | 0 |
| As | 75 | 16.000 | ug/L | 0.243 | 1 | 9846 | 40675 | 0 |
| Se | 82 | 0.297 | ug/L | 0.106 | 35 | 5 | 59 | 31 |
| Se | 78 | 0.993 | ug/L | 0.209 | 21 | 9976 | 10218 | 0 |
| [Mo | 98 | 1.318 | ug/L | 0.014 | 1 | 30 | 8786 | 1 |
| Y | 89 | | ug/L | | | 271537 | 285216 | 1 |
| Kr | 83 | | ug/L | | | 231 | 245 | 5 |
| [> In | 115 | | ug/L | | | 392029 | 377589 | 1 |
| Ag | 107 | 0.016 | ug/L | 0.002 | 10 | 72 | 271 | 9 |
| Cd | 111 | 0.018 | ug/L | 0.011 | 58 | 177 | 226 | 14 |
| Cd | 114 | 0.020 | ug/L | 0.003 | 12 | 20 | 163 | 10 |
| Sb | 121 | 0.582 | ug/L | 0.004 | 0 | 153 | 6661 | 2 |
| Sb | 123 | 0.589 | ug/L | 0.007 | 1 | 120 | 5052 | 0 |
| Ba | 135 | 18.221 | ug/L | 0.204 | 1 | 25 | 42497 | 0 |
| [Ba | 137 | 18.303 | ug/L | 0.068 | 0 | 43 | 72070 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 344844 | 0 |
| Tl | 205 | 0.008 | ug/L | 0.001 | 6 | 177 | 372 | 3 |
| Pb | 208 | 0.095 | ug/L | 0.006 | 6 | 562 | 3554 | 4 |
| Bi | 209 | | ug/L | | | 268890 | 253905 | 0 |
| Th | 232 | 0.032 | ug/L | 0.001 | 3 | 265 | 1505 | 3 |
| [U | 238 | 0.020 | ug/L | 0.001 | 4 | 45 | 856 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 BPOST REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:38:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

AG

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 230016 | 0 |
| [Be | 9 | 26.856 | ug/L | 0.810 | 3 | 7 | 8170 | 2 |
| C | 13 | | mg/L | | | 5188 | 7176 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3727833 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 297814 | 0 |
| V-1 | 51 | 24.940 | ug/L | 0.263 | 1 | 1664 | 329308 | 0 |
| V | 51 | 24.810 | ug/L | 0.243 | 0 | 10593 | 344691 | 0 |
| Cr | 52 | 22.042 | ug/L | 0.190 | 0 | 6396 | 264264 | 0 |
| Cr | 53 | 21.798 | ug/L | 0.123 | 0 | 3578 | 34781 | 0 |
| Mn | 55 | 457.074 | ug/L | 5.380 | 1 | 524 | 8826001 | 0 |
| [Co | 59 | 22.205 | ug/L | 0.091 | 0 | 35 | 333258 | 0 |
| > Ge | 72 | | ug/L | | | 356014 | 350495 | 0 |
| Ni | 60 | 26.721 | ug/L | 0.294 | 1 | 58 | 72924 | 1 |
| Ni | 62 | 28.682 | ug/L | 0.417 | 1 | 858 | 12665 | 0 |
| Cu | 63 | 27.145 | ug/L | 0.380 | 1 | 717 | 172795 | 1 |
| Cu | 65 | 26.551 | ug/L | 0.481 | 1 | 115 | 81061 | 1 |
| Zn | 66 | 80.191 | ug/L | 0.808 | 1 | 264 | 162992 | 0 |
| Zn | 67 | 75.180 | ug/L | 0.525 | 0 | 274 | 25606 | 0 |
| Zn | 68 | 80.502 | ug/L | 0.400 | 0 | 6792 | 122225 | 0 |
| As-1 | 75 | 41.109 | ug/L | 0.236 | 0 | 438 | 81123 | 0 |
| As | 75 | 41.612 | ug/L | 0.213 | 0 | 9846 | 90833 | 0 |
| Se | 82 | 74.606 | ug/L | 0.584 | 0 | 5 | 13726 | 0 |
| Se | 78 | 77.798 | ug/L | 0.335 | 0 | 9976 | 45191 | 0 |
| [Mo | 98 | 1.334 | ug/L | 0.013 | 1 | 30 | 8937 | 1 |
| Y | 89 | | ug/L | | | 271537 | 288985 | 0 |
| Kr | 83 | | ug/L | | | 231 | 257 | 4 |
| > In | 115 | | ug/L | | | 392029 | 379145 | 0 |
| Ag | 107 | 23.706 | ug/L | 0.262 | 1 | 72 | 303522 | 1 |
| Cd | 111 | 24.926 | ug/L | 0.111 | 0 | 177 | 75243 | 1 |
| Cd | 114 | 25.030 | ug/L | 0.102 | 0 | 20 | 178234 | 0 |
| Sb | 121 | 0.559 | ug/L | 0.007 | 1 | 153 | 6430 | 0 |
| Sb | 123 | 0.556 | ug/L | 0.023 | 4 | 120 | 4796 | 3 |
| Ba | 135 | 44.102 | ug/L | 0.149 | 0 | 25 | 103262 | 0 |
| [Ba | 137 | 44.425 | ug/L | 0.301 | 0 | 43 | 175583 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 346788 | 0 |
| Tl | 205 | 22.588 | ug/L | 0.132 | 0 | 177 | 564491 | 0 |
| Pb | 208 | 24.496 | ug/L | 0.094 | 0 | 562 | 780603 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 254878 | 0 |
| Th | 232 | 23.120 | ug/L | 0.264 | 1 | 265 | 898065 | 1 |
| [U | 238 | 22.752 | ug/L | 0.307 | 1 | 45 | 948483 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B-L REN

Sample Dil Factor: 25

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:46:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

NC

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 237294 | 0 |
| [Be | 9 | 0.011 | ug/L | 0.005 | 45 | 7 | 12 | 11 |
| C | 13 | | mg/L | | | 5188 | 4298 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3668923 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 255666 | 0 |
| V-1 | 51 | 0.321 | ug/L | 0.019 | 5 | 1664 | 5422 | 3 |
| V | 51 | 0.078 | ug/L | 0.039 | 50 | 10593 | 12416 | 2 |
| Cr | 52 | -0.013 | ug/L | 0.011 | 88 | 6396 | 6826 | 1 |
| Cr | 53 | -0.741 | ug/L | 0.086 | 11 | 3578 | 3008 | 2 |
| Mn | 55 | 41.387 | ug/L | 0.162 | 0 | 524 | 686646 | 1 |
| Co | 59 | 0.089 | ug/L | 0.004 | 4 | 35 | 1180 | 4 |
| [> Ge | 72 | | ug/L | | | 356014 | 363604 | 0 |
| Ni | 60 | 0.148 | ug/L | 0.019 | 13 | 58 | 477 | 10 |
| Ni | 62 | 0.513 | ug/L | 0.103 | 20 | 858 | 1096 | 3 |
| Cu | 63 | 0.431 | ug/L | 0.007 | 1 | 717 | 3568 | 1 |
| Cu | 65 | 0.367 | ug/L | 0.004 | 1 | 115 | 1277 | 1 |
| Zn | 66 | 2.353 | ug/L | 0.061 | 2 | 264 | 5224 | 3 |
| Zn | 67 | 1.992 | ug/L | 0.028 | 1 | 274 | 976 | 1 |
| Zn | 68 | 2.489 | ug/L | 0.027 | 1 | 6792 | 10642 | 0 |
| As-1 | 75 | 1.350 | ug/L | 0.027 | 1 | 438 | 3196 | 1 |
| As | 75 | 1.378 | ug/L | 0.071 | 5 | 9846 | 12843 | 0 |
| Se | 82 | 0.077 | ug/L | 0.045 | 59 | 5 | 20 | 42 |
| Se | 78 | 0.194 | ug/L | 0.288 | 148 | 9976 | 10279 | 0 |
| Mo | 98 | 0.112 | ug/L | 0.006 | 5 | 30 | 805 | 5 |
| Y | 89 | | ug/L | | | 271537 | 289038 | 0 |
| Kr | 83 | | ug/L | | | 231 | 242 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 392672 | 0 |
| Ag | 107 | 0.014 | ug/L | 0.003 | 21 | 72 | 252 | 15 |
| Cd | 111 | 0.021 | ug/L | 0.007 | 34 | 177 | 243 | 8 |
| Cd | 114 | 0.024 | ug/L | 0.010 | 38 | 20 | 201 | 34 |
| Sb | 121 | 0.048 | ug/L | 0.003 | 5 | 153 | 708 | 4 |
| Sb | 123 | 0.048 | ug/L | 0.001 | 1 | 120 | 536 | 0 |
| Ba | 135 | 1.603 | ug/L | 0.011 | 0 | 25 | 3912 | 1 |
| Ba | 137 | 1.603 | ug/L | 0.039 | 2 | 43 | 6602 | 3 |
| [> Tb | 159 | | ug/L | | | 350924 | 355233 | 0 |
| Tl | 205 | 0.017 | ug/L | 0.005 | 31 | 177 | 612 | 21 |
| Pb | 208 | 0.060 | ug/L | 0.009 | 14 | 562 | 2514 | 11 |
| Bi | 209 | | ug/L | | | 268890 | 273908 | 0 |
| Th | 232 | 0.018 | ug/L | 0.005 | 28 | 265 | 993 | 20 |
| U | 238 | 0.017 | ug/L | 0.005 | 30 | 45 | 780 | 28 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 21:53:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

CR

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 240786 | 0 |
| [Be | 9 | -0.003 | ug/L | 0.004 | 139 | 7 | 8 | 14 |
| C | 13 | | mg/L | | | 5188 | 5535 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3749542 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 273216 | 1 |
| [V-1 | 51 | 1.631 | ug/L | 0.052 | 3 | 1664 | 21573 | 3 |
| [V | 51 | 1.329 | ug/L | 0.011 | 0 | 10593 | 28588 | 2 |
| [Cr | 52 | 0.274 | ug/L | 0.009 | 3 | 6396 | 10358 | 0 |
| [Cr | 53 | -0.584 | ug/L | 0.129 | 22 | 3578 | 3413 | 4 |
| [Mn | 55 | 202.800 | ug/L | 1.019 | 0 | 524 | 3593237 | 2 |
| [Co | 59 | 0.127 | ug/L | 0.005 | 3 | 35 | 1794 | 5 |
| [> Ge | 72 | | ug/L | | | 356014 | 360215 | 1 |
| [Ni | 60 | 0.561 | ug/L | 0.008 | 1 | 58 | 1630 | 2 |
| [Ni | 62 | 0.343 | ug/L | 0.094 | 27 | 858 | 1013 | 2 |
| [Cu | 63 | 0.439 | ug/L | 0.006 | 1 | 717 | 3583 | 1 |
| [Cu | 65 | 0.201 | ug/L | 0.005 | 2 | 115 | 746 | 3 |
| [Zn | 66 | 1.389 | ug/L | 0.045 | 3 | 264 | 3163 | 1 |
| [Zn | 67 | 1.393 | ug/L | 0.068 | 4 | 274 | 760 | 4 |
| [Zn | 68 | 1.813 | ug/L | 0.100 | 5 | 6792 | 9546 | 1 |
| [As-1 | 75 | 6.567 | ug/L | 0.057 | 0 | 438 | 13690 | 0 |
| [As | 75 | 6.618 | ug/L | 0.110 | 1 | 9846 | 23223 | 0 |
| [Se | 82 | 0.134 | ug/L | 0.144 | 107 | 5 | 31 | 88 |
| [Se | 78 | 0.216 | ug/L | 0.205 | 95 | 9976 | 10193 | 0 |
| [Mo | 98 | 0.540 | ug/L | 0.011 | 2 | 30 | 3735 | 3 |
| [Y | 89 | | ug/L | | | 271537 | 287978 | 1 |
| [Kr | 83 | | ug/L | | | 231 | 242 | 7 |
| [> In | 115 | | ug/L | | | 392029 | 385991 | 1 |
| [Ag | 107 | 0.008 | ug/L | 0.001 | 18 | 72 | 169 | 9 |
| [Cd | 111 | -0.000 | ug/L | 0.007 | 1980 | 177 | 174 | 12 |
| [Cd | 114 | 0.007 | ug/L | 0.001 | 7 | 20 | 71 | 6 |
| [Sb | 121 | 0.225 | ug/L | 0.006 | 2 | 153 | 2722 | 3 |
| [Sb | 123 | 0.227 | ug/L | 0.002 | 0 | 120 | 2065 | 1 |
| [Ba | 135 | 7.644 | ug/L | 0.023 | 0 | 25 | 18242 | 1 |
| [Ba | 137 | 7.574 | ug/L | 0.102 | 1 | 43 | 30506 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 350319 | 0 |
| [Tl | 205 | 0.005 | ug/L | 0.001 | 11 | 177 | 298 | 4 |
| [Pb | 208 | 0.045 | ug/L | 0.002 | 4 | 562 | 2007 | 3 |
| [Bi | 209 | | ug/L | | | 268890 | 264972 | 0 |
| [Th | 232 | 0.011 | ug/L | 0.002 | 16 | 265 | 700 | 10 |
| [U | 238 | 0.010 | ug/L | 0.000 | 4 | 45 | 465 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 BDUP REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:00:41

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal



| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 244914 | 0 |
| [Be | 9 | -0.004 | ug/L | 0.014 | 386 | 7 | 8 | 51 |
| C | 13 | | mg/L | | | 5188 | 5324 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3685134 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 270385 | 0 |
| V-1 | 51 | 1.591 | ug/L | 0.004 | 0 | 1664 | 20863 | 0 |
| V | 51 | 1.271 | ug/L | 0.023 | 1 | 10593 | 27591 | 0 |
| Cr | 52 | 0.275 | ug/L | 0.006 | 2 | 6396 | 10255 | 1 |
| Cr | 53 | -0.638 | ug/L | 0.082 | 12 | 3578 | 3310 | 2 |
| Mn | 55 | 200.965 | ug/L | 1.653 | 0 | 524 | 3523609 | 0 |
| Co | 59 | 0.148 | ug/L | 0.003 | 2 | 35 | 2052 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 353922 | 0 |
| Ni | 60 | 0.556 | ug/L | 0.027 | 4 | 58 | 1587 | 4 |
| Ni | 62 | 0.137 | ug/L | 0.032 | 23 | 858 | 910 | 1 |
| Cu | 63 | 0.423 | ug/L | 0.012 | 2 | 717 | 3418 | 2 |
| Cu | 65 | 0.191 | ug/L | 0.011 | 5 | 115 | 703 | 4 |
| Zn | 66 | 1.106 | ug/L | 0.022 | 2 | 264 | 2528 | 2 |
| Zn | 67 | 1.022 | ug/L | 0.033 | 3 | 274 | 620 | 1 |
| Zn | 68 | 1.535 | ug/L | 0.042 | 2 | 6792 | 8977 | 0 |
| As-1 | 75 | 6.599 | ug/L | 0.028 | 0 | 438 | 13516 | 0 |
| As | 75 | 6.694 | ug/L | 0.042 | 0 | 9846 | 22968 | 0 |
| Se | 82 | 0.145 | ug/L | 0.075 | 51 | 5 | 32 | 42 |
| Se | 78 | 0.440 | ug/L | 0.146 | 33 | 9976 | 10119 | 0 |
| Mo | 98 | 0.544 | ug/L | 0.009 | 1 | 30 | 3700 | 1 |
| Y | 89 | | ug/L | | | 271537 | 285996 | 0 |
| Kr | 83 | | ug/L | | | 231 | 243 | 2 |
| > In | 115 | | ug/L | | | 392029 | 377003 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.002 | 32 | 72 | 136 | 16 |
| Cd | 111 | -0.004 | ug/L | 0.008 | 202 | 177 | 158 | 14 |
| Cd | 114 | 0.011 | ug/L | 0.002 | 13 | 20 | 99 | 10 |
| Sb | 121 | 0.224 | ug/L | 0.001 | 0 | 153 | 2655 | 0 |
| Sb | 123 | 0.222 | ug/L | 0.005 | 2 | 120 | 1973 | 3 |
| Ba | 135 | 7.546 | ug/L | 0.125 | 1 | 25 | 17587 | 0 |
| Ba | 137 | 7.595 | ug/L | 0.141 | 1 | 43 | 29881 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 346359 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 78 | 177 | 221 | 16 |
| Pb | 208 | 0.037 | ug/L | 0.004 | 10 | 562 | 1735 | 6 |
| Bi | 209 | | ug/L | | | 268890 | 261694 | 1 |
| Th | 232 | 0.008 | ug/L | 0.001 | 12 | 265 | 565 | 6 |
| U | 238 | 0.008 | ug/L | 0.001 | 6 | 45 | 379 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 BSPK REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:07:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

C6

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 253508 | 0 |
| [Be | 9 | 11.100 | ug/L | 0.205 | 1 | 7 | 3728 | 1 |
| C | 13 | | mg/L | | | 5188 | 5312 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3655175 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 269371 | 1 |
| V-1 | 51 | 11.697 | ug/L | 0.161 | 1 | 1664 | 140703 | 0 |
| V | 51 | 11.384 | ug/L | 0.174 | 1 | 10593 | 149613 | 0 |
| Cr | 52 | 10.363 | ug/L | 0.045 | 0 | 6396 | 116265 | 1 |
| Cr | 53 | 9.471 | ug/L | 0.092 | 0 | 3578 | 15987 | 0 |
| Mn | 55 | 211.707 | ug/L | 1.380 | 0 | 524 | 3697907 | 0 |
| [Co | 59 | 10.589 | ug/L | 0.156 | 1 | 35 | 143746 | 0 |
| [> Ge | 72 | | ug/L | | | 356014 | 355719 | 0 |
| Ni | 60 | 11.243 | ug/L | 0.088 | 0 | 58 | 31173 | 0 |
| Ni | 62 | 10.731 | ug/L | 0.362 | 3 | 858 | 5345 | 1 |
| Cu | 63 | 11.440 | ug/L | 0.266 | 2 | 717 | 74316 | 1 |
| Cu | 65 | 11.383 | ug/L | 0.321 | 2 | 115 | 35336 | 2 |
| Zn | 66 | 35.051 | ug/L | 0.277 | 0 | 264 | 72452 | 0 |
| Zn | 67 | 32.404 | ug/L | 0.312 | 0 | 274 | 11356 | 0 |
| Zn | 68 | 34.785 | ug/L | 0.383 | 1 | 6792 | 57451 | 0 |
| As-1 | 75 | 17.367 | ug/L | 0.211 | 1 | 438 | 35034 | 0 |
| As | 75 | 17.385 | ug/L | 0.222 | 1 | 9846 | 44241 | 0 |
| Se | 82 | 33.171 | ug/L | 0.667 | 2 | 5 | 6196 | 1 |
| Se | 78 | 33.752 | ug/L | 0.699 | 2 | 9976 | 25539 | 0 |
| [Mo | 98 | 0.531 | ug/L | 0.006 | 1 | 30 | 3631 | 0 |
| Y | 89 | | ug/L | | | 271537 | 287160 | 0 |
| Kr | 83 | | ug/L | | | 231 | 247 | 4 |
| [> In | 115 | | ug/L | | | 392029 | 377653 | 1 |
| Ag | 107 | 6.252 | ug/L | 0.052 | 0 | 72 | 79779 | 0 |
| Cd | 111 | 10.672 | ug/L | 0.169 | 1 | 177 | 32185 | 1 |
| Cd | 114 | 10.638 | ug/L | 0.110 | 1 | 20 | 75460 | 0 |
| Sb | 121 | 0.225 | ug/L | 0.004 | 1 | 153 | 2666 | 0 |
| Sb | 123 | 0.226 | ug/L | 0.002 | 0 | 120 | 2007 | 1 |
| Ba | 135 | 18.228 | ug/L | 0.067 | 0 | 25 | 42525 | 1 |
| [Ba | 137 | 18.315 | ug/L | 0.288 | 1 | 43 | 72117 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 343704 | 0 |
| Tl | 205 | 9.803 | ug/L | 0.017 | 0 | 177 | 242902 | 0 |
| Pb | 208 | 10.657 | ug/L | 0.026 | 0 | 562 | 336913 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 260293 | 0 |
| Th | 232 | 9.789 | ug/L | 0.045 | 0 | 265 | 377010 | 0 |
| [U | 238 | 9.861 | ug/L | 0.074 | 0 | 45 | 407447 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:14:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

CS

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 258853 | 1 |
| [Be | 9 | 0.015 | ug/L | 0.001 | 9 | 7 | 15 | 4 |
| C | 13 | | mg/L | | | 5188 | 7040 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 4683524 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 249189 | 3 |
| V-1 | 51 | 4.587 | ug/L | 0.078 | 1 | 1664 | 52106 | 1 |
| V | 51 | 5.149 | ug/L | 0.107 | 2 | 10593 | 68732 | 1 |
| Cr | 52 | 1.098 | ug/L | 0.034 | 3 | 6396 | 17451 | 1 |
| Cr | 53 | 3.014 | ug/L | 0.119 | 3 | 3578 | 7289 | 1 |
| Mn | 55 | 211.690 | ug/L | 3.720 | 1 | 524 | 3419393 | 1 |
| Co | 59 | 0.883 | ug/L | 0.022 | 2 | 35 | 11123 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 325446 | 2 |
| Ni | 60 | 0.958 | ug/L | 0.013 | 1 | 58 | 2479 | 3 |
| Ni | 62 | 2.827 | ug/L | 0.245 | 8 | 858 | 1867 | 6 |
| Cu | 63 | 1.507 | ug/L | 0.026 | 1 | 717 | 9528 | 3 |
| Cu | 65 | 0.565 | ug/L | 0.013 | 2 | 115 | 1706 | 3 |
| Zn | 66 | 2.765 | ug/L | 0.034 | 1 | 264 | 5452 | 3 |
| Zn | 67 | 2.999 | ug/L | 0.205 | 6 | 274 | 1188 | 4 |
| Zn | 68 | 3.452 | ug/L | 0.145 | 4 | 6792 | 10806 | 1 |
| As-1 | 75 | 4.945 | ug/L | 0.063 | 1 | 438 | 9412 | 2 |
| As | 75 | 5.253 | ug/L | 0.096 | 1 | 9846 | 18509 | 1 |
| Se | 82 | 0.399 | ug/L | 0.064 | 16 | 5 | 73 | 17 |
| Se | 78 | 1.766 | ug/L | 0.275 | 15 | 9976 | 9863 | 1 |
| Mo | 98 | 2.480 | ug/L | 0.031 | 1 | 30 | 15402 | 1 |
| Y | 89 | | ug/L | | | 271537 | 276046 | 2 |
| Kr | 83 | | ug/L | | | 231 | 241 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 345625 | 3 |
| Ag | 107 | 0.012 | ug/L | 0.003 | 27 | 72 | 201 | 21 |
| Cd | 111 | -0.135 | ug/L | 0.019 | 14 | 177 | -216 | 27 |
| Cd | 114 | 0.017 | ug/L | 0.001 | 5 | 20 | 125 | 2 |
| Sb | 121 | 0.090 | ug/L | 0.004 | 4 | 153 | 1061 | 1 |
| Sb | 123 | 0.088 | ug/L | 0.006 | 6 | 120 | 779 | 3 |
| Ba | 135 | 12.378 | ug/L | 0.108 | 0 | 25 | 26436 | 3 |
| Ba | 137 | 12.391 | ug/L | 0.156 | 1 | 43 | 44663 | 2 |
| [> Tb | 159 | | ug/L | | | 350924 | 318744 | 2 |
| Tl | 205 | 0.007 | ug/L | 0.001 | 11 | 177 | 330 | 8 |
| Pb | 208 | 0.116 | ug/L | 0.010 | 8 | 562 | 3911 | 9 |
| Bi | 209 | | ug/L | | | 268890 | 241552 | 2 |
| Th | 232 | 0.032 | ug/L | 0.003 | 7 | 265 | 1374 | 8 |
| U | 238 | 0.024 | ug/L | 0.003 | 12 | 45 | 965 | 15 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 E REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:21:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 276990 | 1 |
| [Be | 9 | 0.020 | ug/L | 0.011 | 54 | 7 | 18 | 21 |
| C | 13 | | mg/L | | | 5188 | 6479 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 4457673 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 264531 | 1 |
| [V-1 | 51 | 5.703 | ug/L | 0.014 | 0 | 1664 | 68331 | 1 |
| [V | 51 | 6.000 | ug/L | 0.041 | 0 | 10593 | 83081 | 1 |
| [Cr | 52 | 1.681 | ug/L | 0.033 | 1 | 6396 | 24545 | 1 |
| [Cr | 53 | 2.812 | ug/L | 0.103 | 3 | 3578 | 7490 | 0 |
| [Mn | 55 | 177.011 | ug/L | 2.543 | 1 | 524 | 3036507 | 2 |
| [Co | 59 | 0.599 | ug/L | 0.018 | 2 | 35 | 8021 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 343171 | 0 |
| [Ni | 60 | 2.476 | ug/L | 0.029 | 1 | 58 | 6666 | 1 |
| [Ni | 62 | 3.930 | ug/L | 0.289 | 7 | 858 | 2413 | 4 |
| [Cu | 63 | 1.417 | ug/L | 0.033 | 2 | 717 | 9488 | 2 |
| [Cu | 65 | 0.317 | ug/L | 0.013 | 4 | 115 | 1056 | 3 |
| [Zn | 66 | 12.823 | ug/L | 0.091 | 0 | 264 | 25732 | 0 |
| [Zn | 67 | 12.000 | ug/L | 0.327 | 2 | 274 | 4224 | 2 |
| [Zn | 68 | 12.833 | ug/L | 0.234 | 1 | 6792 | 24581 | 1 |
| [As-1 | 75 | 0.431 | ug/L | 0.027 | 6 | 438 | 1250 | 4 |
| [As | 75 | 0.179 | ug/L | 0.011 | 6 | 9846 | 9832 | 0 |
| [Se | 82 | 0.830 | ug/L | 0.067 | 8 | 5 | 154 | 8 |
| [Se | 78 | -0.138 | ug/L | 0.028 | 20 | 9976 | 9554 | 0 |
| [Mo | 98 | 1.201 | ug/L | 0.015 | 1 | 30 | 7880 | 1 |
| [Y | 89 | | ug/L | | | 271537 | 303498 | 0 |
| [Kr | 83 | | ug/L | | | 231 | 240 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 358190 | 0 |
| [Ag | 107 | 0.017 | ug/L | 0.001 | 5 | 72 | 265 | 4 |
| [Cd | 111 | -0.082 | ug/L | 0.047 | 57 | 177 | -71 | 190 |
| [Cd | 114 | 0.019 | ug/L | 0.003 | 14 | 20 | 148 | 12 |
| [Sb | 121 | 0.044 | ug/L | 0.003 | 5 | 153 | 611 | 5 |
| [Sb | 123 | 0.043 | ug/L | 0.002 | 5 | 120 | 453 | 4 |
| [Ba | 135 | 4.277 | ug/L | 0.080 | 1 | 25 | 9483 | 2 |
| [Ba | 137 | 4.285 | ug/L | 0.053 | 1 | 43 | 16034 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 341056 | 0 |
| [Tl | 205 | 0.020 | ug/L | 0.001 | 5 | 177 | 668 | 4 |
| [Pb | 208 | 0.120 | ug/L | 0.006 | 5 | 562 | 4290 | 4 |
| [Bi | 209 | | ug/L | | | 268890 | 254406 | 0 |
| [Th | 232 | 0.036 | ug/L | 0.000 | 0 | 265 | 1625 | 0 |
| [U | 238 | 0.016 | ug/L | 0.001 | 4 | 45 | 703 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:27:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

CG

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 276612 | 3 |
| [Be | 9 | -0.014 | ug/L | 0.008 | 52 | 7 | 5 | 44 |
| C | 13 | | mg/L | | | 5188 | 5466 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3374917 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 268886 | 2 |
| V-1 | 51 | 1.469 | ug/L | 0.037 | 2 | 1664 | 19306 | 2 |
| V | 51 | 1.047 | ug/L | 0.021 | 1 | 10593 | 24731 | 2 |
| Cr | 52 | 0.392 | ug/L | 0.020 | 5 | 6396 | 11422 | 1 |
| Cr | 53 | -0.852 | ug/L | 0.048 | 5 | 3578 | 3025 | 3 |
| Mn | 55 | 152.528 | ug/L | 1.879 | 1 | 524 | 2659214 | 1 |
| Co | 59 | 0.907 | ug/L | 0.018 | 1 | 35 | 12332 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 352633 | 2 |
| Ni | 60 | 1.777 | ug/L | 0.035 | 1 | 58 | 4931 | 0 |
| Ni | 62 | 1.551 | ug/L | 0.083 | 5 | 858 | 1494 | 4 |
| Cu | 63 | 1.256 | ug/L | 0.024 | 1 | 717 | 8721 | 0 |
| Cu | 65 | 1.184 | ug/L | 0.038 | 3 | 115 | 3744 | 1 |
| Zn | 66 | 4.612 | ug/L | 0.050 | 1 | 264 | 9676 | 1 |
| Zn | 67 | 4.161 | ug/L | 0.087 | 2 | 274 | 1682 | 3 |
| Zn | 68 | 4.659 | ug/L | 0.174 | 3 | 6792 | 13451 | 0 |
| As-1 | 75 | 2.446 | ug/L | 0.011 | 0 | 438 | 5264 | 2 |
| As | 75 | 2.310 | ug/L | 0.095 | 4 | 9846 | 14281 | 1 |
| Se | 82 | 0.127 | ug/L | 0.015 | 12 | 5 | 28 | 8 |
| Se | 78 | -0.527 | ug/L | 0.444 | 84 | 9976 | 9637 | 0 |
| Mo | 98 | 1.658 | ug/L | 0.026 | 1 | 30 | 11172 | 3 |
| Y | 89 | | ug/L | | | 271537 | 294867 | 3 |
| Kr | 83 | | ug/L | | | 231 | 228 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 378541 | 2 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 43 | 72 | 89 | 11 |
| Cd | 111 | 0.022 | ug/L | 0.004 | 16 | 177 | 236 | 6 |
| Cd | 114 | 0.019 | ug/L | 0.003 | 17 | 20 | 155 | 16 |
| Sb | 121 | 0.039 | ug/L | 0.002 | 4 | 153 | 587 | 5 |
| Sb | 123 | 0.038 | ug/L | 0.001 | 1 | 120 | 435 | 3 |
| Ba | 135 | 5.042 | ug/L | 0.056 | 1 | 25 | 11805 | 1 |
| Ba | 137 | 5.049 | ug/L | 0.027 | 0 | 43 | 19960 | 2 |
| [> Tb | 159 | | ug/L | | | 350924 | 351273 | 2 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 44 | 177 | 224 | 7 |
| Pb | 208 | 0.072 | ug/L | 0.005 | 6 | 562 | 2902 | 8 |
| Bi | 209 | | ug/L | | | 268890 | 273834 | 2 |
| Th | 232 | 0.010 | ug/L | 0.001 | 5 | 265 | 665 | 2 |
| U | 238 | 0.017 | ug/L | 0.001 | 3 | 45 | 748 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV10

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:34:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 263632 | 0 |
| [Be | 9 | 51.227 | ug/L | 0.306 | 0 | 7 | 17855 | 0 |
| C | 13 | | mg/L | | | 5188 | 4451 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3480051 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 241955 | 1 |
| V-1 | 51 | 50.950 | ug/L | 0.552 | 1 | 1664 | 544770 | 0 |
| V | 51 | 50.698 | ug/L | 0.545 | 1 | 10593 | 560849 | 0 |
| Cr | 52 | 51.139 | ug/L | 0.481 | 0 | 6396 | 489414 | 0 |
| Cr | 53 | 50.352 | ug/L | 0.860 | 1 | 3578 | 60445 | 1 |
| Mn | 55 | 51.818 | ug/L | 0.323 | 0 | 524 | 813405 | 0 |
| Co | 59 | 52.127 | ug/L | 0.101 | 0 | 35 | 635546 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 348785 | 0 |
| Ni | 60 | 50.434 | ug/L | 0.471 | 0 | 58 | 136920 | 1 |
| Ni | 62 | 49.880 | ug/L | 0.335 | 0 | 858 | 21297 | 0 |
| Cu | 63 | 51.207 | ug/L | 1.172 | 2 | 717 | 323735 | 1 |
| Cu | 65 | 51.083 | ug/L | 0.581 | 1 | 115 | 155100 | 0 |
| Zn | 66 | 50.320 | ug/L | 0.649 | 1 | 264 | 101875 | 1 |
| Zn | 67 | 49.914 | ug/L | 1.065 | 2 | 274 | 17007 | 1 |
| Zn | 68 | 50.418 | ug/L | 0.504 | 0 | 6792 | 78661 | 1 |
| As-1 | 75 | 49.755 | ug/L | 0.366 | 0 | 438 | 97616 | 0 |
| As | 75 | 49.869 | ug/L | 0.420 | 0 | 9846 | 106409 | 0 |
| Se | 82 | 49.434 | ug/L | 0.890 | 1 | 5 | 9052 | 1 |
| Se | 78 | 49.999 | ug/L | 1.072 | 2 | 9976 | 32392 | 1 |
| Mo | 98 | 51.105 | ug/L | 0.333 | 0 | 30 | 339667 | 1 |
| Y | 89 | | ug/L | | | 271537 | 285178 | 1 |
| Kr | 83 | | ug/L | | | 231 | 252 | 1 |
| > In | 115 | | ug/L | | | 392029 | 378552 | 0 |
| Ag | 107 | 50.096 | ug/L | 0.580 | 1 | 72 | 640293 | 0 |
| Cd | 111 | 49.224 | ug/L | 0.386 | 0 | 177 | 148188 | 0 |
| Cd | 114 | 49.325 | ug/L | 0.408 | 0 | 20 | 350678 | 1 |
| Sb | 121 | 48.823 | ug/L | 0.423 | 0 | 153 | 548220 | 1 |
| Sb | 123 | 49.101 | ug/L | 0.300 | 0 | 120 | 412622 | 0 |
| Ba | 135 | 48.489 | ug/L | 0.392 | 0 | 25 | 113354 | 1 |
| Ba | 137 | 48.893 | ug/L | 0.381 | 0 | 43 | 192940 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 344447 | 0 |
| Tl | 205 | 46.420 | ug/L | 0.666 | 1 | 177 | 1151991 | 0 |
| Pb | 208 | 49.316 | ug/L | 0.350 | 0 | 562 | 1560343 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 267468 | 0 |
| Th | 232 | 45.639 | ug/L | 0.870 | 1 | 265 | 1760482 | 1 |
| U | 238 | 45.635 | ug/L | 0.327 | 0 | 45 | 1889394 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB10

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:42:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 262170 | 1 |
| [Be | 9 | -0.003 | ug/L | 0.009 | 305 | 7 | 9 | 32 |
| C | 13 | | mg/L | | | 5188 | 5045 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3538810 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 244304 | 0 |
| V-1 | 51 | -0.001 | ug/L | 0.011 | 820 | 1664 | 1715 | 7 |
| V | 51 | -0.433 | ug/L | 0.018 | 4 | 10593 | 6261 | 3 |
| Cr | 52 | -0.085 | ug/L | 0.019 | 21 | 6396 | 5837 | 3 |
| Cr | 53 | -1.410 | ug/L | 0.055 | 3 | 3578 | 2113 | 3 |
| Mn | 55 | 0.024 | ug/L | 0.012 | 52 | 524 | 922 | 22 |
| [Co | 59 | 0.016 | ug/L | 0.010 | 60 | 35 | 232 | 51 |
| > Ge | 72 | | ug/L | | | 356014 | 348690 | 0 |
| Ni | 60 | 0.016 | ug/L | 0.015 | 92 | 58 | 101 | 40 |
| Ni | 62 | -1.061 | ug/L | 0.025 | 2 | 858 | 405 | 2 |
| Cu | 63 | -0.034 | ug/L | 0.012 | 33 | 717 | 485 | 15 |
| Cu | 65 | 0.013 | ug/L | 0.016 | 124 | 115 | 153 | 32 |
| Zn | 66 | 0.016 | ug/L | 0.006 | 34 | 264 | 291 | 3 |
| Zn | 67 | -0.279 | ug/L | 0.044 | 15 | 274 | 175 | 8 |
| Zn | 68 | -0.082 | ug/L | 0.065 | 79 | 6792 | 6535 | 1 |
| As-1 | 75 | 0.021 | ug/L | 0.024 | 116 | 438 | 469 | 10 |
| As | 75 | 0.014 | ug/L | 0.040 | 276 | 9846 | 9671 | 0 |
| Se | 82 | -0.031 | ug/L | 0.066 | 216 | 5 | 0 | 20143 |
| Se | 78 | -0.015 | ug/L | 0.181 | 1206 | 9976 | 9763 | 0 |
| [Mo | 98 | 0.052 | ug/L | 0.024 | 47 | 30 | 374 | 43 |
| Y | 89 | | ug/L | | | 271537 | 284135 | 0 |
| Kr | 83 | | ug/L | | | 231 | 234 | 0 |
| > In | 115 | | ug/L | | | 392029 | 376151 | 0 |
| Ag | 107 | 0.020 | ug/L | 0.006 | 31 | 72 | 324 | 24 |
| Cd | 111 | 0.007 | ug/L | 0.014 | 197 | 177 | 191 | 21 |
| Cd | 114 | 0.017 | ug/L | 0.011 | 62 | 20 | 140 | 53 |
| Sb | 121 | 0.165 | ug/L | 0.070 | 42 | 153 | 1990 | 39 |
| Sb | 123 | 0.159 | ug/L | 0.075 | 47 | 120 | 1445 | 43 |
| Ba | 135 | 0.016 | ug/L | 0.007 | 43 | 25 | 62 | 26 |
| [Ba | 137 | 0.017 | ug/L | 0.010 | 55 | 43 | 109 | 34 |
| > Tb | 159 | | ug/L | | | 350924 | 343659 | 0 |
| Tl | 205 | 0.017 | ug/L | 0.010 | 57 | 177 | 604 | 41 |
| Pb | 208 | 0.023 | ug/L | 0.014 | 60 | 562 | 1289 | 34 |
| Bi | 209 | | ug/L | | | 268890 | 272128 | 0 |
| Th | 232 | 0.037 | ug/L | 0.014 | 37 | 265 | 1677 | 31 |
| [U | 238 | 0.016 | ug/L | 0.009 | 58 | 45 | 698 | 54 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:49:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 287591 | 1 |
| [Be | 9 | -0.015 | ug/L | 0.013 | 83 | 7 | 5 | 81 |
| C | 13 | | mg/L | | | 5188 | 5372 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3415278 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 278863 | 1 |
| V-1 | 51 | 6.750 | ug/L | 0.067 | 0 | 1664 | 84898 | 1 |
| V | 51 | 6.154 | ug/L | 0.055 | 0 | 10593 | 89508 | 1 |
| Cr | 52 | 0.750 | ug/L | 0.035 | 4 | 6396 | 15752 | 3 |
| Cr | 53 | -0.762 | ug/L | 0.058 | 7 | 3578 | 3254 | 2 |
| Mn | 55 | 66.773 | ug/L | 0.463 | 0 | 524 | 1207932 | 1 |
| [Co | 59 | 0.794 | ug/L | 0.007 | 0 | 35 | 11205 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 365917 | 0 |
| Ni | 60 | 0.761 | ug/L | 0.023 | 2 | 58 | 2226 | 3 |
| Ni | 62 | 1.454 | ug/L | 0.596 | 41 | 858 | 1506 | 16 |
| Cu | 63 | 1.908 | ug/L | 0.010 | 0 | 717 | 13364 | 0 |
| Cu | 65 | 1.742 | ug/L | 0.016 | 0 | 115 | 5665 | 1 |
| Zn | 66 | 2.932 | ug/L | 0.019 | 0 | 264 | 6482 | 0 |
| Zn | 67 | 2.813 | ug/L | 0.144 | 5 | 274 | 1271 | 3 |
| Zn | 68 | 2.751 | ug/L | 0.113 | 4 | 6792 | 11103 | 1 |
| As-1 | 75 | 1.555 | ug/L | 0.013 | 0 | 438 | 3636 | 0 |
| As | 75 | 1.289 | ug/L | 0.051 | 3 | 9846 | 12743 | 0 |
| Se | 82 | 0.075 | ug/L | 0.052 | 68 | 5 | 20 | 49 |
| Se | 78 | -1.127 | ug/L | 0.189 | 16 | 9976 | 9718 | 0 |
| [Mo | 98 | 3.041 | ug/L | 0.015 | 0 | 30 | 21231 | 0 |
| Y | 89 | | ug/L | | | 271537 | 316371 | 0 |
| Kr | 83 | | ug/L | | | 231 | 233 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 391324 | 1 |
| Ag | 107 | 0.010 | ug/L | 0.000 | 3 | 72 | 205 | 2 |
| Cd | 111 | 0.025 | ug/L | 0.004 | 15 | 177 | 255 | 5 |
| Cd | 114 | 0.017 | ug/L | 0.002 | 14 | 20 | 146 | 13 |
| Sb | 121 | 0.134 | ug/L | 0.012 | 9 | 153 | 1705 | 8 |
| Sb | 123 | 0.133 | ug/L | 0.013 | 9 | 120 | 1276 | 8 |
| Ba | 135 | 2.849 | ug/L | 0.017 | 0 | 25 | 6909 | 1 |
| [Ba | 137 | 2.811 | ug/L | 0.016 | 0 | 43 | 11507 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 363876 | 0 |
| Tl | 205 | 0.005 | ug/L | 0.002 | 41 | 177 | 309 | 17 |
| Pb | 208 | 0.212 | ug/L | 0.007 | 3 | 562 | 7667 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 284156 | 0 |
| Th | 232 | 0.068 | ug/L | 0.001 | 1 | 265 | 3028 | 1 |
| [U | 238 | 0.015 | ug/L | 0.000 | 0 | 45 | 683 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 22:56:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 282792 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.026 | 904 | 7 | 12 | 79 |
| C | 13 | | mg/L | | | 5188 | 5232 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3369505 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 270961 | 0 |
| [V-1 | 51 | 7.930 | ug/L | 0.105 | 1 | 1664 | 96579 | 1 |
| [V | 51 | 7.321 | ug/L | 0.075 | 1 | 10593 | 101148 | 1 |
| [Cr | 52 | 1.335 | ug/L | 0.022 | 1 | 6396 | 21489 | 1 |
| [Cr | 53 | -0.186 | ug/L | 0.086 | 46 | 3578 | 3889 | 3 |
| [Mn | 55 | 271.051 | ug/L | 3.181 | 1 | 524 | 4762739 | 1 |
| [Co | 59 | 1.109 | ug/L | 0.017 | 1 | 35 | 15184 | 0 |
| [> Ge | 72 | | ug/L | | | 356014 | 353640 | 0 |
| [Ni | 60 | 0.764 | ug/L | 0.026 | 3 | 58 | 2160 | 2 |
| [Ni | 62 | -0.227 | ug/L | 0.105 | 46 | 858 | 758 | 6 |
| [Cu | 63 | 0.613 | ug/L | 0.018 | 2 | 717 | 4637 | 2 |
| [Cu | 65 | 0.395 | ug/L | 0.001 | 0 | 115 | 1331 | 1 |
| [Zn | 66 | 2.635 | ug/L | 0.060 | 2 | 264 | 5657 | 2 |
| [Zn | 67 | 2.620 | ug/L | 0.125 | 4 | 274 | 1163 | 3 |
| [Zn | 68 | 2.497 | ug/L | 0.050 | 1 | 6792 | 10362 | 1 |
| [As-1 | 75 | 2.160 | ug/L | 0.017 | 0 | 438 | 4713 | 1 |
| [As | 75 | 1.965 | ug/L | 0.039 | 2 | 9846 | 13647 | 0 |
| [Se | 82 | 0.066 | ug/L | 0.081 | 122 | 5 | 17 | 84 |
| [Se | 78 | -0.784 | ug/L | 0.057 | 7 | 9976 | 9549 | 0 |
| [Mo | 98 | 0.860 | ug/L | 0.013 | 1 | 30 | 5823 | 2 |
| [Y | 89 | | ug/L | | | 271537 | 303174 | 1 |
| [Kr | 83 | | ug/L | | | 231 | 237 | 1 |
| [> In | 115 | | ug/L | | | 392029 | 378909 | 1 |
| [Ag | 107 | 0.008 | ug/L | 0.001 | 6 | 72 | 171 | 5 |
| [Cd | 111 | 0.028 | ug/L | 0.018 | 65 | 177 | 254 | 20 |
| [Cd | 114 | 0.013 | ug/L | 0.004 | 26 | 20 | 113 | 20 |
| [Sb | 121 | 0.114 | ug/L | 0.001 | 1 | 153 | 1428 | 1 |
| [Sb | 123 | 0.107 | ug/L | 0.001 | 1 | 120 | 1014 | 0 |
| [Ba | 135 | 4.025 | ug/L | 0.045 | 1 | 25 | 9439 | 0 |
| [Ba | 137 | 4.018 | ug/L | 0.085 | 2 | 43 | 15907 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 354716 | 1 |
| [Tl | 205 | 0.001 | ug/L | 0.001 | 122 | 177 | 202 | 13 |
| [Pb | 208 | 0.081 | ug/L | 0.005 | 6 | 562 | 3190 | 4 |
| [Bi | 209 | | ug/L | | | 268890 | 272671 | 1 |
| [Th | 232 | 0.032 | ug/L | 0.002 | 4 | 265 | 1531 | 4 |
| [U | 238 | 0.009 | ug/L | 0.001 | 9 | 45 | 417 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 E REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:03:28

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 291074 | 0 |
| [Be | 9 | -0.008 | ug/L | 0.006 | 71 | 7 | 8 | 24 |
| C | 13 | | mg/L | | | 5188 | 5356 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3348447 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 278721 | 1 |
| V-1 | 51 | 0.738 | ug/L | 0.050 | 6 | 1664 | 11036 | 5 |
| V | 51 | 0.197 | ug/L | 0.012 | 6 | 10593 | 15015 | 1 |
| Cr | 52 | 0.030 | ug/L | 0.011 | 35 | 6396 | 7912 | 1 |
| Cr | 53 | -1.598 | ug/L | 0.103 | 6 | 3578 | 2166 | 6 |
| Mn | 55 | 140.657 | ug/L | 1.482 | 1 | 524 | 2542312 | 0 |
| [Co | 59 | 0.296 | ug/L | 0.006 | 1 | 35 | 4196 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 367385 | 0 |
| Ni | 60 | 1.831 | ug/L | 0.061 | 3 | 58 | 5293 | 2 |
| Ni | 62 | 0.621 | ug/L | 0.099 | 15 | 858 | 1153 | 3 |
| Cu | 63 | 1.040 | ug/L | 0.021 | 2 | 717 | 7651 | 2 |
| Cu | 65 | 0.915 | ug/L | 0.012 | 1 | 115 | 3044 | 1 |
| Zn | 66 | 2.074 | ug/L | 0.039 | 1 | 264 | 4684 | 1 |
| Zn | 67 | 1.600 | ug/L | 0.034 | 2 | 274 | 848 | 1 |
| Zn | 68 | 1.865 | ug/L | 0.044 | 2 | 6792 | 9815 | 1 |
| As-1 | 75 | 2.283 | ug/L | 0.017 | 0 | 438 | 5149 | 0 |
| As | 75 | 1.910 | ug/L | 0.048 | 2 | 9846 | 14065 | 0 |
| Se | 82 | 0.047 | ug/L | 0.099 | 209 | 5 | 14 | 128 |
| Se | 78 | -1.619 | ug/L | 0.211 | 13 | 9976 | 9522 | 0 |
| [Mo | 98 | 0.652 | ug/L | 0.001 | 0 | 30 | 4598 | 0 |
| Y | 89 | | ug/L | | | 271537 | 306247 | 0 |
| Kr | 83 | | ug/L | | | 231 | 237 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 395377 | 1 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 83 | 72 | 91 | 16 |
| Cd | 111 | -0.003 | ug/L | 0.009 | 364 | 177 | 171 | 17 |
| Cd | 114 | 0.013 | ug/L | 0.002 | 16 | 20 | 118 | 12 |
| Sb | 121 | 0.026 | ug/L | 0.003 | 11 | 153 | 457 | 7 |
| Sb | 123 | 0.023 | ug/L | 0.001 | 3 | 120 | 319 | 2 |
| Ba | 135 | 4.379 | ug/L | 0.060 | 1 | 25 | 10715 | 1 |
| [Ba | 137 | 4.391 | ug/L | 0.066 | 1 | 43 | 18135 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 364297 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 160 | 177 | 199 | 12 |
| Pb | 208 | 0.041 | ug/L | 0.004 | 10 | 562 | 1949 | 7 |
| Bi | 209 | | ug/L | | | 268890 | 285473 | 0 |
| Th | 232 | 0.004 | ug/L | 0.001 | 32 | 265 | 447 | 12 |
| [U | 238 | 0.005 | ug/L | 0.000 | 7 | 45 | 276 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 F REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:11:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\033110D.cal

NG

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 293040 | 0 |
| [Be | 9 | -0.012 | ug/L | 0.007 | 54 | 7 | 7 | 36 |
| C | 13 | | mg/L | | | 5188 | 5387 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3373723 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 278416 | 1 |
| V-1 | 51 | 1.107 | ug/L | 0.027 | 2 | 1664 | 15547 | 1 |
| V | 51 | 0.596 | ug/L | 0.039 | 6 | 10593 | 19978 | 1 |
| Cr | 52 | -0.032 | ug/L | 0.001 | 4 | 6396 | 7229 | 1 |
| Cr | 53 | -1.544 | ug/L | 0.045 | 2 | 3578 | 2233 | 1 |
| Mn | 55 | 136.266 | ug/L | 2.975 | 2 | 524 | 2460393 | 2 |
| Co | 59 | 0.441 | ug/L | 0.009 | 1 | 35 | 6234 | 0 |
| [> Ge | 72 | | ug/L | | | 356014 | 357043 | 2 |
| Ni | 60 | 1.172 | ug/L | 0.019 | 1 | 58 | 3312 | 0 |
| Ni | 62 | -0.086 | ug/L | 0.138 | 160 | 858 | 825 | 7 |
| Cu | 63 | 0.593 | ug/L | 0.004 | 0 | 717 | 4552 | 2 |
| Cu | 65 | 0.399 | ug/L | 0.007 | 1 | 115 | 1354 | 0 |
| Zn | 66 | 1.348 | ug/L | 0.030 | 2 | 264 | 3051 | 0 |
| Zn | 67 | 0.871 | ug/L | 0.094 | 10 | 274 | 574 | 5 |
| Zn | 68 | 1.332 | ug/L | 0.038 | 2 | 6792 | 8758 | 1 |
| As-1 | 75 | 4.108 | ug/L | 0.044 | 1 | 438 | 8651 | 1 |
| As | 75 | 3.840 | ug/L | 0.152 | 3 | 9846 | 17497 | 0 |
| Se | 82 | 0.074 | ug/L | 0.078 | 105 | 5 | 19 | 74 |
| Se | 78 | -1.191 | ug/L | 0.432 | 36 | 9976 | 9450 | 0 |
| Mo | 98 | 0.748 | ug/L | 0.007 | 0 | 30 | 5118 | 1 |
| Y | 89 | | ug/L | | | 271537 | 301344 | 2 |
| Kr | 83 | | ug/L | | | 231 | 231 | 7 |
| [> In | 115 | | ug/L | | | 392029 | 387951 | 0 |
| Ag | 107 | 0.000 | ug/L | 0.000 | 169 | 72 | 72 | 4 |
| Cd | 111 | -0.024 | ug/L | 0.003 | 10 | 177 | 101 | 7 |
| Cd | 114 | 0.007 | ug/L | 0.002 | 30 | 20 | 70 | 22 |
| Sb | 121 | 0.030 | ug/L | 0.001 | 3 | 153 | 493 | 2 |
| Sb | 123 | 0.033 | ug/L | 0.002 | 5 | 120 | 401 | 3 |
| Ba | 135 | 2.668 | ug/L | 0.063 | 2 | 25 | 6416 | 2 |
| Ba | 137 | 2.647 | ug/L | 0.022 | 0 | 43 | 10744 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 362765 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.001 | 13 | 177 | 313 | 5 |
| Pb | 208 | 0.047 | ug/L | 0.006 | 11 | 562 | 2147 | 7 |
| Bi | 209 | | ug/L | | | 268890 | 281117 | 0 |
| Th | 232 | 0.002 | ug/L | 0.001 | 21 | 265 | 369 | 6 |
| U | 238 | 0.013 | ug/L | 0.001 | 4 | 45 | 594 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 G REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:18:59

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

DL
aw 4.1

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 300249 | 0 |
| [Be | 9 | -0.021 | ug/L | 0.006 | 29 | 7 | 3 | 66 |
| C | 13 | | mg/L | | | 5188 | 5435 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3417902 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 285864 | 0 |
| V-1 | 51 | 1.110 | ug/L | 0.016 | 1 | 1664 | 15998 | 1 |
| V | 51 | 0.564 | ug/L | 0.006 | 1 | 10593 | 20107 | 1 |
| Cr | 52 | -0.026 | ug/L | 0.005 | 21 | 6396 | 7491 | 1 |
| Cr | 53 | -1.644 | ug/L | 0.032 | 1 | 3578 | 2160 | 2 |
| Mn | 55 | 140.435 | ug/L | 1.532 | 1 | 524 | 2603605 | 1 |
| [Co | 59 | 0.437 | ug/L | 0.016 | 3 | 35 | 6329 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 370545 | 0 |
| Ni | 60 | 1.103 | ug/L | 0.048 | 4 | 58 | 3240 | 4 |
| Ni | 62 | -0.097 | ug/L | 0.102 | 105 | 858 | 850 | 4 |
| Cu | 63 | 0.581 | ug/L | 0.026 | 4 | 717 | 4644 | 3 |
| Cu | 65 | 0.404 | ug/L | 0.008 | 2 | 115 | 1422 | 2 |
| Zn | 66 | 1.479 | ug/L | 0.035 | 2 | 264 | 3448 | 2 |
| Zn | 67 | 1.052 | ug/L | 0.083 | 7 | 274 | 660 | 4 |
| Zn | 68 | 1.246 | ug/L | 0.178 | 14 | 6792 | 8959 | 2 |
| As-1 | 75 | 4.166 | ug/L | 0.092 | 2 | 438 | 9100 | 1 |
| As | 75 | 3.750 | ug/L | 0.134 | 3 | 9846 | 17977 | 1 |
| Se | 82 | 0.085 | ug/L | 0.055 | 65 | 5 | 22 | 48 |
| Se | 78 | -1.851 | ug/L | 0.256 | 13 | 9976 | 9492 | 0 |
| [Mo | 98 | 0.748 | ug/L | 0.013 | 1 | 30 | 5314 | 0 |
| Y | 89 | | ug/L | | | 271537 | 312663 | 0 |
| Kr | 83 | | ug/L | | | 231 | 232 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 397897 | 0 |
| Ag | 107 | 0.000 | ug/L | 0.001 | 160 | 72 | 79 | 12 |
| Cd | 111 | -0.015 | ug/L | 0.001 | 4 | 177 | 134 | 1 |
| Cd | 114 | 0.014 | ug/L | 0.003 | 23 | 20 | 129 | 18 |
| Sb | 121 | 0.023 | ug/L | 0.001 | 4 | 153 | 422 | 2 |
| Sb | 123 | 0.024 | ug/L | 0.001 | 5 | 120 | 333 | 4 |
| Ba | 135 | 2.676 | ug/L | 0.057 | 2 | 25 | 6599 | 2 |
| [Ba | 137 | 2.688 | ug/L | 0.049 | 1 | 43 | 11190 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 370541 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.000 | 6 | 177 | 323 | 3 |
| Pb | 208 | 0.032 | ug/L | 0.001 | 2 | 562 | 1678 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 289529 | 1 |
| Th | 232 | 0.001 | ug/L | 0.001 | 64 | 265 | 331 | 10 |
| [U | 238 | 0.013 | ug/L | 0.000 | 2 | 45 | 631 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 H REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:25:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 293800 | 1 |
| [Be | 9 | -0.008 | ug/L | 0.006 | 71 | 7 | 8 | 24 |
| C | 13 | | mg/L | | | 5188 | 5557 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3379100 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 279263 | 1 |
| [V-1 | 51 | 9.455 | ug/L | 0.092 | 0 | 1664 | 118299 | 1 |
| [V | 51 | 8.756 | ug/L | 0.057 | 0 | 10593 | 122221 | 1 |
| [Cr | 52 | 1.005 | ug/L | 0.033 | 3 | 6396 | 18557 | 3 |
| [Cr | 53 | -0.691 | ug/L | 0.098 | 14 | 3578 | 3350 | 4 |
| [Mn | 55 | 76.761 | ug/L | 0.330 | 0 | 524 | 1390455 | 0 |
| [Co | 59 | 0.578 | ug/L | 0.002 | 0 | 35 | 8168 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 361544 | 0 |
| [Ni | 60 | 1.070 | ug/L | 0.004 | 0 | 58 | 3070 | 0 |
| [Ni | 62 | 0.008 | ug/L | 0.116 | 1535 | 858 | 875 | 6 |
| [Cu | 63 | 1.473 | ug/L | 0.037 | 2 | 717 | 10361 | 2 |
| [Cu | 65 | 1.167 | ug/L | 0.006 | 0 | 115 | 3786 | 0 |
| [Zn | 66 | 2.839 | ug/L | 0.022 | 0 | 264 | 6210 | 0 |
| [Zn | 67 | 2.838 | ug/L | 0.057 | 2 | 274 | 1265 | 1 |
| [Zn | 68 | 2.458 | ug/L | 0.170 | 6 | 6792 | 10536 | 2 |
| [As-1 | 75 | 0.942 | ug/L | 0.022 | 2 | 438 | 2352 | 1 |
| [As | 75 | 0.538 | ug/L | 0.040 | 7 | 9846 | 11081 | 0 |
| [Se | 82 | 0.296 | ug/L | 0.028 | 9 | 5 | 61 | 8 |
| [Se | 78 | -1.518 | ug/L | 0.118 | 7 | 9976 | 9418 | 0 |
| [Mo | 98 | 1.330 | ug/L | 0.015 | 1 | 30 | 9192 | 1 |
| [Y | 89 | | ug/L | | | 271537 | 315086 | 0 |
| [Kr | 83 | | ug/L | | | 231 | 222 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 383113 | 1 |
| [Ag | 107 | 0.004 | ug/L | 0.000 | 5 | 72 | 125 | 1 |
| [Cd | 111 | 0.070 | ug/L | 0.002 | 2 | 177 | 385 | 2 |
| [Cd | 114 | 0.063 | ug/L | 0.002 | 3 | 20 | 477 | 2 |
| [Sb | 121 | 0.047 | ug/L | 0.005 | 11 | 153 | 685 | 9 |
| [Sb | 123 | 0.046 | ug/L | 0.001 | 2 | 120 | 511 | 0 |
| [Ba | 135 | 4.117 | ug/L | 0.055 | 1 | 25 | 9762 | 0 |
| [Ba | 137 | 4.189 | ug/L | 0.091 | 2 | 43 | 16765 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 361926 | 0 |
| [Tl | 205 | 0.002 | ug/L | 0.001 | 49 | 177 | 222 | 8 |
| [Pb | 208 | 0.104 | ug/L | 0.003 | 3 | 562 | 4050 | 2 |
| [Bi | 209 | | ug/L | | | 268890 | 281837 | 0 |
| [Th | 232 | 0.021 | ug/L | 0.001 | 4 | 265 | 1133 | 3 |
| [U | 238 | 0.029 | ug/L | 0.000 | 0 | 45 | 1315 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 I REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:32:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 281890 | 3 |
| [Be | 9 | 0.023 | ug/L | 0.009 | 38 | 7 | 20 | 18 |
| C | 13 | | mg/L | | | 5188 | 6411 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3524662 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 258844 | 3 |
| V-1 | 51 | 12.021 | ug/L | 0.041 | 0 | 1664 | 138924 | 4 |
| V | 51 | 11.523 | ug/L | 0.064 | 0 | 10593 | 145411 | 4 |
| Cr | 52 | 2.950 | ug/L | 0.032 | 1 | 6396 | 36831 | 2 |
| Cr | 53 | 1.903 | ug/L | 0.147 | 7 | 3578 | 6236 | 5 |
| Mn | 55 | 52.873 | ug/L | 0.457 | 0 | 524 | 888114 | 4 |
| [Co | 59 | 0.978 | ug/L | 0.009 | 0 | 35 | 12795 | 3 |
| > Ge | 72 | | ug/L | | | 356014 | 333435 | 3 |
| Ni | 60 | 1.625 | ug/L | 0.035 | 2 | 58 | 4267 | 2 |
| Ni | 62 | 16.979 | ug/L | 2.623 | 15 | 858 | 7449 | 12 |
| Cu | 63 | 5.204 | ug/L | 0.030 | 0 | 717 | 32057 | 3 |
| Cu | 65 | 3.829 | ug/L | 0.032 | 0 | 115 | 11214 | 3 |
| Zn | 66 | 2.774 | ug/L | 0.032 | 1 | 264 | 5603 | 4 |
| Zn | 67 | 2.997 | ug/L | 0.044 | 1 | 274 | 1217 | 2 |
| Zn | 68 | 2.653 | ug/L | 0.166 | 6 | 6792 | 9978 | 1 |
| As-1 | 75 | 0.953 | ug/L | 0.020 | 2 | 438 | 2189 | 2 |
| As | 75 | 0.846 | ug/L | 0.123 | 14 | 9846 | 10785 | 1 |
| Se | 82 | 0.698 | ug/L | 0.050 | 7 | 5 | 127 | 3 |
| Se | 78 | 0.282 | ug/L | 0.541 | 191 | 9976 | 9459 | 1 |
| [Mo | 98 | 10.699 | ug/L | 0.068 | 0 | 30 | 68001 | 3 |
| Y | 89 | | ug/L | | | 271537 | 327852 | 3 |
| Kr | 83 | | ug/L | | | 231 | 225 | 3 |
| > In | 115 | | ug/L | | | 392029 | 350773 | 4 |
| Ag | 107 | 0.018 | ug/L | 0.002 | 10 | 72 | 271 | 5 |
| Cd | 111 | 0.064 | ug/L | 0.022 | 34 | 177 | 339 | 21 |
| Cd | 114 | 0.029 | ug/L | 0.001 | 2 | 20 | 208 | 5 |
| Sb | 121 | 0.101 | ug/L | 0.005 | 4 | 153 | 1187 | 3 |
| Sb | 123 | 0.103 | ug/L | 0.008 | 7 | 120 | 907 | 8 |
| Ba | 135 | 10.328 | ug/L | 0.167 | 1 | 25 | 22391 | 4 |
| Ba | 137 | 10.414 | ug/L | 0.117 | 1 | 43 | 38103 | 3 |
| > Tb | 159 | | ug/L | | | 350924 | 336205 | 3 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 19 | 177 | 203 | 1 |
| Pb | 208 | 0.450 | ug/L | 0.011 | 2 | 562 | 14446 | 6 |
| Bi | 209 | | ug/L | | | 268890 | 254119 | 3 |
| Th | 232 | 0.189 | ug/L | 0.004 | 1 | 265 | 7353 | 2 |
| [U | 238 | 0.175 | ug/L | 0.002 | 1 | 45 | 7131 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:39:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 299781 | 3 |
| [Be | 9 | -0.003 | ug/L | 0.006 | 184 | 7 | 10 | 24 |
| C | 13 | | mg/L | | | 5188 | 6979 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3284373 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 254957 | 3 |
| V-1 | 51 | 1.082 | ug/L | 0.004 | 0 | 1664 | 13960 | 3 |
| V | 51 | 0.634 | ug/L | 0.010 | 1 | 10593 | 18737 | 2 |
| Cr | 52 | 1.365 | ug/L | 0.033 | 2 | 6396 | 20511 | 1 |
| Cr | 53 | -0.028 | ug/L | 0.053 | 188 | 3578 | 3845 | 1 |
| Mn | 55 | 77.067 | ug/L | 0.549 | 0 | 524 | 1274466 | 3 |
| [Co | 59 | 0.368 | ug/L | 0.008 | 2 | 35 | 4766 | 3 |
| [> Ge | 72 | | ug/L | | | 356014 | 343385 | 2 |
| Ni | 60 | 2.758 | ug/L | 0.093 | 3 | 58 | 7426 | 4 |
| Ni | 62 | 2.377 | ug/L | 0.111 | 4 | 858 | 1788 | 4 |
| Cu | 63 | 10.464 | ug/L | 0.141 | 1 | 717 | 65698 | 3 |
| Cu | 65 | 10.461 | ug/L | 0.051 | 0 | 115 | 31358 | 1 |
| Zn | 66 | 122.581 | ug/L | 1.363 | 1 | 264 | 244005 | 3 |
| Zn | 67 | 110.767 | ug/L | 1.546 | 1 | 274 | 36834 | 2 |
| Zn | 68 | 121.596 | ug/L | 0.401 | 0 | 6792 | 177530 | 2 |
| As-1 | 75 | 0.707 | ug/L | 0.010 | 1 | 438 | 1782 | 3 |
| As | 75 | 0.489 | ug/L | 0.077 | 15 | 9846 | 10428 | 0 |
| Se | 82 | 0.117 | ug/L | 0.070 | 60 | 5 | 26 | 49 |
| Se | 78 | -0.836 | ug/L | 0.347 | 41 | 9976 | 9247 | 0 |
| [Mo | 98 | 1.495 | ug/L | 0.023 | 1 | 30 | 9809 | 1 |
| Y | 89 | | ug/L | | | 271537 | 290654 | 3 |
| Kr | 83 | | ug/L | | | 231 | 222 | 4 |
| [> In | 115 | | ug/L | | | 392029 | 372087 | 3 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 26 | 72 | 134 | 13 |
| Cd | 111 | 0.113 | ug/L | 0.003 | 2 | 177 | 503 | 5 |
| Cd | 114 | 0.116 | ug/L | 0.007 | 6 | 20 | 827 | 7 |
| Sb | 121 | 1.462 | ug/L | 0.009 | 0 | 153 | 16276 | 3 |
| Sb | 123 | 1.460 | ug/L | 0.030 | 2 | 120 | 12175 | 5 |
| Ba | 135 | 31.932 | ug/L | 0.695 | 2 | 25 | 73351 | 3 |
| [Ba | 137 | 31.970 | ug/L | 0.492 | 1 | 43 | 124000 | 3 |
| [> Tb | 159 | | ug/L | | | 350924 | 349755 | 3 |
| Tl | 205 | 0.007 | ug/L | 0.000 | 2 | 177 | 359 | 2 |
| Pb | 208 | 2.252 | ug/L | 0.028 | 1 | 562 | 72857 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 277611 | 2 |
| Th | 232 | 0.015 | ug/L | 0.001 | 8 | 265 | 843 | 3 |
| [U | 238 | 0.010 | ug/L | 0.000 | 0 | 45 | 482 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:46:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 331735 | 0 |
| [Be | 9 | -0.006 | ug/L | 0.005 | 78 | 7 | 10 | 17 |
| C | 13 | | mg/L | | | 5188 | 7757 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3459973 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 286017 | 0 |
| V-1 | 51 | 0.362 | ug/L | 0.005 | 1 | 1664 | 6580 | 0 |
| V | 51 | -0.153 | ug/L | 0.004 | 2 | 10593 | 10925 | 0 |
| Cr | 52 | 0.658 | ug/L | 0.010 | 1 | 6396 | 15128 | 0 |
| Cr | 53 | -0.941 | ug/L | 0.014 | 1 | 3578 | 3099 | 0 |
| Mn | 55 | 71.250 | ug/L | 0.868 | 1 | 524 | 1321973 | 1 |
| Co | 59 | 0.282 | ug/L | 0.004 | 1 | 35 | 4106 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 382840 | 1 |
| Ni | 60 | 2.477 | ug/L | 0.060 | 2 | 58 | 7442 | 3 |
| Ni | 62 | 1.254 | ug/L | 0.170 | 13 | 858 | 1487 | 5 |
| Cu | 63 | 6.819 | ug/L | 0.152 | 2 | 717 | 47985 | 1 |
| Cu | 65 | 6.901 | ug/L | 0.093 | 1 | 115 | 23105 | 0 |
| Zn | 66 | 99.234 | ug/L | 0.867 | 0 | 264 | 220236 | 1 |
| Zn | 67 | 90.366 | ug/L | 0.512 | 0 | 274 | 33558 | 0 |
| Zn | 68 | 96.847 | ug/L | 1.049 | 1 | 6792 | 159115 | 0 |
| As-1 | 75 | 0.428 | ug/L | 0.008 | 1 | 438 | 1388 | 2 |
| As | 75 | -0.083 | ug/L | 0.031 | 37 | 9846 | 10411 | 1 |
| Se | 82 | 0.091 | ug/L | 0.029 | 31 | 5 | 24 | 23 |
| Se | 78 | -2.229 | ug/L | 0.156 | 7 | 9976 | 9620 | 1 |
| Mo | 98 | 1.457 | ug/L | 0.018 | 1 | 30 | 10660 | 0 |
| Y | 89 | | ug/L | | | 271537 | 324978 | 1 |
| Kr | 83 | | ug/L | | | 231 | 223 | 2 |
| > In | 115 | | ug/L | | | 392029 | 416463 | 0 |
| Ag | 107 | -0.000 | ug/L | 0.001 | 271 | 72 | 72 | 17 |
| Cd | 111 | 0.082 | ug/L | 0.006 | 7 | 177 | 460 | 4 |
| Cd | 114 | 0.088 | ug/L | 0.001 | 1 | 20 | 709 | 1 |
| Sb | 121 | 1.178 | ug/L | 0.020 | 1 | 153 | 14713 | 1 |
| Sb | 123 | 1.192 | ug/L | 0.008 | 0 | 120 | 11148 | 0 |
| Ba | 135 | 28.282 | ug/L | 0.294 | 1 | 25 | 72744 | 0 |
| Ba | 137 | 28.445 | ug/L | 0.275 | 0 | 43 | 123503 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 389287 | 0 |
| Tl | 205 | 0.002 | ug/L | 0.000 | 20 | 177 | 256 | 5 |
| Pb | 208 | 0.437 | ug/L | 0.009 | 1 | 562 | 16252 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 307573 | 1 |
| Th | 232 | 0.006 | ug/L | 0.001 | 14 | 265 | 574 | 7 |
| U | 238 | 0.003 | ug/L | 0.000 | 10 | 45 | 201 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:52:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 331240 | 0 |
| [Be | 9 | 0.031 | ug/L | 0.008 | 26 | 7 | 27 | 14 |
| C | 13 | | mg/L | | | 5188 | 7809 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3452734 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 279028 | 1 |
| V-1 | 51 | 0.224 | ug/L | 0.025 | 11 | 1664 | 4727 | 6 |
| V | 51 | -0.356 | ug/L | 0.019 | 5 | 10593 | 8121 | 2 |
| Cr | 52 | 0.583 | ug/L | 0.024 | 4 | 6396 | 13934 | 2 |
| Cr | 53 | -1.220 | ug/L | 0.064 | 5 | 3578 | 2660 | 1 |
| Mn | 55 | 24.159 | ug/L | 0.417 | 1 | 524 | 437629 | 0 |
| [Co | 59 | 0.134 | ug/L | 0.004 | 2 | 35 | 1922 | 2 |
| > Ge | 72 | | ug/L | | | 356014 | 379732 | 0 |
| Ni | 60 | 1.075 | ug/L | 0.017 | 1 | 58 | 3237 | 1 |
| Ni | 62 | -0.296 | ug/L | 0.099 | 33 | 858 | 783 | 5 |
| Cu | 63 | 4.365 | ug/L | 0.006 | 0 | 717 | 30749 | 0 |
| Cu | 65 | 4.408 | ug/L | 0.036 | 0 | 115 | 14682 | 0 |
| Zn | 66 | 24.531 | ug/L | 0.149 | 0 | 264 | 54215 | 0 |
| Zn | 67 | 22.387 | ug/L | 0.136 | 0 | 274 | 8466 | 0 |
| Zn | 68 | 23.803 | ug/L | 0.057 | 0 | 6792 | 44257 | 0 |
| As-1 | 75 | 0.813 | ug/L | 0.005 | 0 | 438 | 2196 | 0 |
| As | 75 | 0.372 | ug/L | 0.047 | 12 | 9846 | 11288 | 0 |
| Se | 82 | -0.027 | ug/L | 0.010 | 38 | 5 | 0 | 357 |
| Se | 78 | -2.004 | ug/L | 0.176 | 8 | 9976 | 9653 | 0 |
| [Mo | 98 | 0.380 | ug/L | 0.007 | 1 | 30 | 2785 | 1 |
| Y | 89 | | ug/L | | | 271537 | 328743 | 0 |
| Kr | 83 | | ug/L | | | 231 | 233 | 2 |
| > In | 115 | | ug/L | | | 392029 | 418138 | 0 |
| Ag | 107 | -0.000 | ug/L | 0.000 | 2586 | 72 | 76 | 7 |
| Cd | 111 | 0.043 | ug/L | 0.010 | 23 | 177 | 333 | 9 |
| Cd | 114 | 0.044 | ug/L | 0.000 | 0 | 20 | 370 | 0 |
| Sb | 121 | 0.481 | ug/L | 0.003 | 0 | 153 | 6128 | 1 |
| Sb | 123 | 0.477 | ug/L | 0.010 | 2 | 120 | 4552 | 1 |
| Ba | 135 | 5.224 | ug/L | 0.045 | 0 | 25 | 13514 | 1 |
| [Ba | 137 | 5.308 | ug/L | 0.039 | 0 | 43 | 23176 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 393400 | 1 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 33 | 177 | 160 | 8 |
| Pb | 208 | 0.099 | ug/L | 0.005 | 4 | 562 | 4206 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 313410 | 0 |
| Th | 232 | 0.003 | ug/L | 0.001 | 30 | 265 | 432 | 8 |
| [U | 238 | 0.003 | ug/L | 0.001 | 19 | 45 | 202 | 13 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV11

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, March 31, 2010 23:59:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 316173 | 1 |
| [Be | 9 | 49.493 | ug/L | 0.555 | 1 | 7 | 20588 | 0 |
| C | 13 | | mg/L | | | 5188 | 4646 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3442452 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 258416 | 1 |
| V-1 | 51 | 51.294 | ug/L | 0.349 | 0 | 1664 | 585757 | 0 |
| V | 51 | 50.763 | ug/L | 0.397 | 0 | 10593 | 599780 | 1 |
| Cr | 52 | 51.643 | ug/L | 0.727 | 1 | 6396 | 527789 | 1 |
| Cr | 53 | 49.990 | ug/L | 0.491 | 0 | 3578 | 64124 | 0 |
| Mn | 55 | 52.336 | ug/L | 0.563 | 1 | 524 | 877409 | 1 |
| Co | 59 | 52.425 | ug/L | 0.614 | 1 | 35 | 682656 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 367296 | 0 |
| Ni | 60 | 50.956 | ug/L | 0.881 | 1 | 58 | 145675 | 1 |
| Ni | 62 | 50.026 | ug/L | 0.381 | 0 | 858 | 22491 | 0 |
| Cu | 63 | 51.027 | ug/L | 0.582 | 1 | 717 | 339737 | 0 |
| Cu | 65 | 50.339 | ug/L | 0.713 | 1 | 115 | 160949 | 0 |
| Zn | 66 | 50.399 | ug/L | 0.499 | 0 | 264 | 107453 | 1 |
| Zn | 67 | 49.518 | ug/L | 0.765 | 1 | 274 | 17770 | 0 |
| Zn | 68 | 50.113 | ug/L | 0.813 | 1 | 6792 | 82381 | 1 |
| As-1 | 75 | 49.643 | ug/L | 0.145 | 0 | 438 | 102567 | 0 |
| As | 75 | 49.315 | ug/L | 0.137 | 0 | 9846 | 110929 | 0 |
| Se | 82 | 50.759 | ug/L | 0.516 | 1 | 5 | 9788 | 0 |
| Se | 78 | 49.275 | ug/L | 0.200 | 0 | 9976 | 33767 | 0 |
| Mo | 98 | 51.600 | ug/L | 0.426 | 0 | 30 | 361143 | 0 |
| Y | 89 | | ug/L | | | 271537 | 306327 | 0 |
| Kr | 83 | | ug/L | | | 231 | 227 | 3 |
| > In | 115 | | ug/L | | | 392029 | 398271 | 1 |
| Ag | 107 | 50.334 | ug/L | 0.634 | 1 | 72 | 676799 | 0 |
| Cd | 111 | 50.169 | ug/L | 1.138 | 2 | 177 | 158870 | 1 |
| Cd | 114 | 50.128 | ug/L | 0.127 | 0 | 20 | 374937 | 1 |
| Sb | 121 | 48.239 | ug/L | 0.447 | 0 | 153 | 569839 | 0 |
| Sb | 123 | 48.447 | ug/L | 0.656 | 1 | 120 | 428299 | 0 |
| Ba | 135 | 48.060 | ug/L | 0.779 | 1 | 25 | 118187 | 0 |
| Ba | 137 | 48.696 | ug/L | 0.995 | 2 | 43 | 202150 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 370264 | 0 |
| Tl | 205 | 46.925 | ug/L | 0.445 | 0 | 177 | 1251900 | 1 |
| Pb | 208 | 50.326 | ug/L | 0.123 | 0 | 562 | 1711670 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 291317 | 1 |
| Th | 232 | 47.108 | ug/L | 0.250 | 0 | 265 | 1953509 | 1 |
| U | 238 | 52.357 | ug/L | 0.533 | 1 | 45 | 2330134 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB11

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:07:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 303006 | 3 |
| [Be | 9 | -0.009 | ug/L | 0.011 | 125 | 7 | 8 | 51 |
| C | 13 | | mg/L | | | 5188 | 5105 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3399659 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 247617 | 3 |
| V-1 | 51 | 0.011 | ug/L | 0.015 | 140 | 1664 | 1872 | 9 |
| V | 51 | -0.580 | ug/L | 0.008 | 1 | 10593 | 4720 | 4 |
| Cr | 52 | -0.099 | ug/L | 0.028 | 28 | 6396 | 5776 | 3 |
| Cr | 53 | -1.911 | ug/L | 0.015 | 0 | 3578 | 1563 | 2 |
| Mn | 55 | 0.017 | ug/L | 0.003 | 17 | 524 | 829 | 9 |
| [Co | 59 | 0.019 | ug/L | 0.009 | 46 | 35 | 276 | 44 |
| > Ge | 72 | | ug/L | | | 356014 | 348660 | 3 |
| Ni | 60 | 0.021 | ug/L | 0.010 | 49 | 58 | 114 | 28 |
| Ni | 62 | -1.519 | ug/L | 0.024 | 1 | 858 | 217 | 6 |
| Cu | 63 | -0.044 | ug/L | 0.013 | 29 | 717 | 425 | 23 |
| Cu | 65 | 0.021 | ug/L | 0.006 | 30 | 115 | 176 | 14 |
| Zn | 66 | 0.039 | ug/L | 0.006 | 16 | 264 | 337 | 1 |
| Zn | 67 | -0.353 | ug/L | 0.053 | 14 | 274 | 150 | 15 |
| Zn | 68 | -0.292 | ug/L | 0.052 | 17 | 6792 | 6232 | 2 |
| As-1 | 75 | 0.007 | ug/L | 0.014 | 209 | 438 | 441 | 3 |
| As | 75 | -0.210 | ug/L | 0.128 | 61 | 9846 | 9229 | 1 |
| Se | 82 | -0.005 | ug/L | 0.026 | 494 | 5 | 4 | 108 |
| Se | 78 | -0.934 | ug/L | 0.566 | 60 | 9976 | 9341 | 1 |
| [Mo | 98 | 0.048 | ug/L | 0.017 | 35 | 30 | 349 | 36 |
| Y | 89 | | ug/L | | | 271537 | 292620 | 4 |
| Kr | 83 | | ug/L | | | 231 | 226 | 1 |
| > In | 115 | | ug/L | | | 392029 | 378495 | 2 |
| [Ag | 107 | 0.023 | ug/L | 0.010 | 42 | 72 | 368 | 37 |
| Cd | 111 | 0.016 | ug/L | 0.008 | 51 | 177 | 220 | 14 |
| Cd | 114 | 0.020 | ug/L | 0.009 | 45 | 20 | 163 | 42 |
| Sb | 121 | 0.165 | ug/L | 0.072 | 43 | 153 | 2011 | 43 |
| Sb | 123 | 0.162 | ug/L | 0.064 | 39 | 120 | 1485 | 39 |
| Ba | 135 | 0.018 | ug/L | 0.004 | 24 | 25 | 67 | 17 |
| [Ba | 137 | 0.017 | ug/L | 0.007 | 39 | 43 | 111 | 27 |
| > Tb | 159 | | ug/L | | | 350924 | 351742 | 2 |
| Tl | 205 | 0.019 | ug/L | 0.008 | 40 | 177 | 673 | 33 |
| Pb | 208 | 0.023 | ug/L | 0.010 | 44 | 562 | 1324 | 28 |
| Bi | 209 | | ug/L | | | 268890 | 282233 | 3 |
| Th | 232 | 0.044 | ug/L | 0.015 | 32 | 265 | 2027 | 31 |
| [U | 238 | 0.018 | ug/L | 0.006 | 35 | 45 | 829 | 36 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN39 MB REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:14:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 302820 | 0 |
| [Be | 9 | -0.009 | ug/L | 0.003 | 36 | 7 | 8 | 14 |
| C | 13 | | mg/L | | | 5188 | 5754 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3304936 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 247666 | 0 |
| [V-1 | 51 | 0.030 | ug/L | 0.007 | 21 | 1664 | 2081 | 4 |
| [V | 51 | -0.565 | ug/L | 0.013 | 2 | 10593 | 4885 | 2 |
| [Cr | 52 | -0.030 | ug/L | 0.012 | 41 | 6396 | 6451 | 1 |
| [Cr | 53 | -1.857 | ug/L | 0.045 | 2 | 3578 | 1625 | 2 |
| [Mn | 55 | 0.051 | ug/L | 0.003 | 5 | 524 | 1363 | 2 |
| [Co | 59 | 0.054 | ug/L | 0.001 | 2 | 35 | 716 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 346631 | 0 |
| [Ni | 60 | 0.023 | ug/L | 0.003 | 11 | 58 | 117 | 5 |
| [Ni | 62 | -1.594 | ug/L | 0.065 | 4 | 858 | 185 | 13 |
| [Cu | 63 | 0.117 | ug/L | 0.008 | 6 | 717 | 1432 | 2 |
| [Cu | 65 | 0.179 | ug/L | 0.014 | 8 | 115 | 653 | 5 |
| [Zn | 66 | 1.674 | ug/L | 0.057 | 3 | 264 | 3617 | 3 |
| [Zn | 67 | 1.086 | ug/L | 0.059 | 5 | 274 | 629 | 2 |
| [Zn | 68 | 1.225 | ug/L | 0.027 | 2 | 6792 | 8351 | 0 |
| [As-1 | 75 | -0.003 | ug/L | 0.012 | 472 | 438 | 421 | 4 |
| [As | 75 | -0.220 | ug/L | 0.031 | 14 | 9846 | 9163 | 0 |
| [Se | 82 | 0.000 | ug/L | 0.073 | 208129 | 5 | 5 | 248 |
| [Se | 78 | -0.951 | ug/L | 0.132 | 13 | 9976 | 9285 | 0 |
| [Mo | 98 | 0.038 | ug/L | 0.003 | 8 | 30 | 282 | 7 |
| [Y | 89 | | ug/L | | | 271537 | 291600 | 0 |
| [Kr | 83 | | ug/L | | | 231 | 221 | 3 |
| [> In | 115 | | ug/L | | | 392029 | 375056 | 1 |
| [Ag | 107 | 0.007 | ug/L | 0.002 | 22 | 72 | 154 | 13 |
| [Cd | 111 | -0.002 | ug/L | 0.006 | 269 | 177 | 163 | 13 |
| [Cd | 114 | 0.012 | ug/L | 0.002 | 14 | 20 | 101 | 11 |
| [Sb | 121 | 0.037 | ug/L | 0.009 | 23 | 153 | 557 | 18 |
| [Sb | 123 | 0.037 | ug/L | 0.013 | 36 | 120 | 420 | 27 |
| [Ba | 135 | 0.033 | ug/L | 0.001 | 3 | 25 | 101 | 1 |
| [Ba | 137 | 0.035 | ug/L | 0.007 | 18 | 43 | 179 | 13 |
| [> Tb | 159 | | ug/L | | | 350924 | 349269 | 0 |
| [Tl | 205 | 0.004 | ug/L | 0.002 | 44 | 177 | 287 | 16 |
| [Pb | 208 | 0.032 | ug/L | 0.004 | 11 | 562 | 1579 | 6 |
| [Bi | 209 | | ug/L | | | 268890 | 280816 | 0 |
| [Th | 232 | 0.013 | ug/L | 0.002 | 12 | 265 | 771 | 8 |
| [U | 238 | 0.005 | ug/L | 0.002 | 28 | 45 | 274 | 23 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN39 MBSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:21:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 277779 | 1 |
| [Be | 9 | 24.567 | ug/L | 0.398 | 1 | 7 | 9027 | 0 |
| C | 13 | | mg/L | | | 5188 | 5556 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3165554 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 218791 | 1 |
| V-1 | 51 | 25.588 | ug/L | 0.209 | 0 | 1664 | 248174 | 0 |
| V | 51 | 25.147 | ug/L | 0.225 | 0 | 10593 | 256531 | 0 |
| Cr | 52 | 26.137 | ug/L | 0.311 | 1 | 6396 | 229112 | 1 |
| Cr | 53 | 24.751 | ug/L | 0.203 | 0 | 3578 | 28562 | 0 |
| Mn | 55 | 26.482 | ug/L | 0.121 | 0 | 524 | 376147 | 1 |
| Co | 59 | 26.612 | ug/L | 0.605 | 2 | 35 | 293370 | 1 |
| > Ge | 72 | | ug/L | | | 356014 | 307620 | 1 |
| Ni | 60 | 26.176 | ug/L | 0.414 | 1 | 58 | 62694 | 0 |
| Ni | 62 | 24.293 | ug/L | 0.216 | 0 | 858 | 9528 | 0 |
| Cu | 63 | 27.021 | ug/L | 0.287 | 1 | 717 | 150966 | 0 |
| Cu | 65 | 26.949 | ug/L | 0.303 | 1 | 115 | 72212 | 0 |
| Zn | 66 | 81.494 | ug/L | 0.667 | 0 | 264 | 145369 | 0 |
| Zn | 67 | 74.751 | ug/L | 0.896 | 1 | 274 | 22346 | 0 |
| Zn | 68 | 80.381 | ug/L | 0.733 | 0 | 6792 | 107115 | 0 |
| As-1 | 75 | 25.562 | ug/L | 0.587 | 2 | 438 | 44412 | 1 |
| As | 75 | 25.455 | ug/L | 0.664 | 2 | 9846 | 52067 | 1 |
| Se | 82 | 79.041 | ug/L | 0.928 | 1 | 5 | 12762 | 0 |
| Se | 78 | 80.157 | ug/L | 1.201 | 1 | 9976 | 40602 | 0 |
| [Mo | 98 | 0.029 | ug/L | 0.003 | 8 | 30 | 199 | 7 |
| Y | 89 | | ug/L | | | 271537 | 258701 | 1 |
| Kr | 83 | | ug/L | | | 231 | 220 | 3 |
| > In | 115 | | ug/L | | | 392029 | 333886 | 1 |
| Ag | 107 | 24.856 | ug/L | 0.426 | 1 | 72 | 280202 | 0 |
| Cd | 111 | 25.372 | ug/L | 0.559 | 2 | 177 | 67428 | 0 |
| Cd | 114 | 24.871 | ug/L | 0.288 | 1 | 20 | 155944 | 0 |
| Sb | 121 | 0.028 | ug/L | 0.004 | 13 | 153 | 405 | 8 |
| Sb | 123 | 0.026 | ug/L | 0.007 | 25 | 120 | 294 | 15 |
| Ba | 135 | 25.162 | ug/L | 0.621 | 2 | 25 | 51879 | 1 |
| Ba | 137 | 25.257 | ug/L | 0.396 | 1 | 43 | 87910 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 317924 | 1 |
| Tl | 205 | 24.018 | ug/L | 0.070 | 0 | 177 | 550248 | 0 |
| Pb | 208 | 26.149 | ug/L | 0.167 | 0 | 562 | 763880 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 257200 | 1 |
| Th | 232 | 23.985 | ug/L | 0.255 | 1 | 265 | 854093 | 1 |
| [U | 238 | 24.221 | ug/L | 0.219 | 0 | 45 | 925579 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 EDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:28:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 280525 | 0 |
| [Be | 9 | 0.007 | ug/L | 0.016 | 234 | 7 | 13 | 41 |
| C | 13 | | mg/L | | | 5188 | 6862 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3238671 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 226419 | 0 |
| V-1 | 51 | 0.319 | ug/L | 0.023 | 7 | 1664 | 4785 | 5 |
| V | 51 | -0.131 | ug/L | 0.009 | 6 | 10593 | 8872 | 1 |
| Cr | 52 | 0.506 | ug/L | 0.016 | 3 | 6396 | 10633 | 1 |
| Cr | 53 | -0.888 | ug/L | 0.086 | 9 | 3578 | 2508 | 2 |
| Mn | 55 | 48.781 | ug/L | 0.333 | 0 | 524 | 716604 | 0 |
| [Co | 59 | 0.318 | ug/L | 0.005 | 1 | 35 | 3661 | 2 |
| > Ge | 72 | | ug/L | | | 356014 | 313327 | 1 |
| Ni | 60 | 2.084 | ug/L | 0.023 | 1 | 58 | 5131 | 1 |
| Ni | 62 | 0.285 | ug/L | 0.086 | 29 | 858 | 860 | 2 |
| Cu | 63 | 8.707 | ug/L | 0.145 | 1 | 717 | 49974 | 0 |
| Cu | 65 | 8.886 | ug/L | 0.037 | 0 | 115 | 24322 | 1 |
| Zn | 66 | 94.689 | ug/L | 1.160 | 1 | 264 | 171997 | 0 |
| Zn | 67 | 85.516 | ug/L | 1.922 | 2 | 274 | 26002 | 1 |
| Zn | 68 | 93.947 | ug/L | 1.638 | 1 | 6792 | 126501 | 0 |
| As-1 | 75 | 0.512 | ug/L | 0.018 | 3 | 438 | 1284 | 1 |
| As | 75 | 0.715 | ug/L | 0.094 | 13 | 9846 | 9911 | 0 |
| Se | 82 | 0.139 | ug/L | 0.052 | 37 | 5 | 27 | 30 |
| Se | 78 | 1.085 | ug/L | 0.336 | 31 | 9976 | 9219 | 0 |
| [Mo | 98 | 1.974 | ug/L | 0.022 | 1 | 30 | 11811 | 0 |
| Y | 89 | | ug/L | | | 271537 | 262280 | 0 |
| Kr | 83 | | ug/L | | | 231 | 218 | 3 |
| > In | 115 | | ug/L | | | 392029 | 337880 | 0 |
| Ag | 107 | 0.030 | ug/L | 0.007 | 23 | 72 | 405 | 19 |
| Cd | 111 | 0.107 | ug/L | 0.006 | 5 | 177 | 441 | 3 |
| Cd | 114 | 0.117 | ug/L | 0.006 | 4 | 20 | 759 | 4 |
| Sb | 121 | 1.759 | ug/L | 0.019 | 1 | 153 | 17754 | 0 |
| Sb | 123 | 1.752 | ug/L | 0.027 | 1 | 120 | 13244 | 1 |
| Ba | 135 | 28.691 | ug/L | 0.192 | 0 | 25 | 59872 | 0 |
| [Ba | 137 | 28.855 | ug/L | 0.194 | 0 | 43 | 101648 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 321334 | 0 |
| Tl | 205 | 0.028 | ug/L | 0.008 | 29 | 177 | 812 | 24 |
| Pb | 208 | 0.585 | ug/L | 0.012 | 2 | 562 | 17771 | 2 |
| Bi | 209 | | ug/L | | | 268890 | 254509 | 0 |
| Th | 232 | 0.066 | ug/L | 0.012 | 17 | 265 | 2609 | 16 |
| [U | 238 | 0.025 | ug/L | 0.006 | 25 | 45 | 1004 | 25 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:35:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

ren

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|-----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 186084 | 280931 | 0 |
| [| Be | 9 | -0.007 | ug/L | 0.009 | 131 | 7 | 8 | 37 |
| | C | 13 | | mg/L | | | 5188 | 6952 | 2 |
| | Cl | 37 | | mg/L | | | 4051958 | 3240212 | 1 |
| [> | Sc | 45 | | ug/L | | | 235104 | 223386 | 0 |
| [| V-1 | 51 | 0.292 | ug/L | 0.016 | 5 | 1664 | 4458 | 3 |
| | V | 51 | -0.139 | ug/L | 0.019 | 13 | 10593 | 8669 | 1 |
| | Cr | 52 | 0.502 | ug/L | 0.020 | 3 | 6396 | 10453 | 2 |
| | Cr | 53 | -0.838 | ug/L | 0.081 | 9 | 3578 | 2527 | 2 |
| | Mn | 55 | 49.809 | ug/L | 0.356 | 0 | 524 | 721932 | 1 |
| [| Co | 59 | 0.283 | ug/L | 0.004 | 1 | 35 | 3216 | 1 |
| [> | Ge | 72 | | ug/L | | | 356014 | 312801 | 0 |
| [| Ni | 60 | 2.085 | ug/L | 0.033 | 1 | 58 | 5125 | 0 |
| | Ni | 62 | 0.294 | ug/L | 0.054 | 18 | 858 | 862 | 1 |
| | Cu | 63 | 9.123 | ug/L | 0.106 | 1 | 717 | 52245 | 0 |
| | Cu | 65 | 9.165 | ug/L | 0.065 | 0 | 115 | 25038 | 0 |
| | Zn | 66 | 93.182 | ug/L | 0.989 | 1 | 264 | 168981 | 0 |
| | Zn | 67 | 84.159 | ug/L | 0.917 | 1 | 274 | 25554 | 1 |
| | Zn | 68 | 92.904 | ug/L | 0.634 | 0 | 6792 | 124960 | 0 |
| | As-1 | 75 | 0.495 | ug/L | 0.034 | 6 | 438 | 1252 | 3 |
| | As | 75 | 0.723 | ug/L | 0.099 | 13 | 9846 | 9908 | 0 |
| | Se | 82 | 0.074 | ug/L | 0.083 | 112 | 5 | 17 | 79 |
| | Se | 78 | 1.146 | ug/L | 0.290 | 25 | 9976 | 9229 | 0 |
| [| Mo | 98 | 2.050 | ug/L | 0.035 | 1 | 30 | 12247 | 1 |
| | Y | 89 | | ug/L | | | 271537 | 261983 | 0 |
| | Kr | 83 | | ug/L | | | 231 | 221 | 2 |
| [> | In | 115 | | ug/L | | | 392029 | 333639 | 1 |
| [| Ag | 107 | 0.009 | ug/L | 0.001 | 5 | 72 | 166 | 4 |
| | Cd | 111 | 0.084 | ug/L | 0.010 | 12 | 177 | 374 | 6 |
| | Cd | 114 | 0.100 | ug/L | 0.005 | 4 | 20 | 645 | 5 |
| | Sb | 121 | 1.758 | ug/L | 0.017 | 0 | 153 | 17525 | 0 |
| | Sb | 123 | 1.761 | ug/L | 0.047 | 2 | 120 | 13141 | 1 |
| | Ba | 135 | 29.016 | ug/L | 0.441 | 1 | 25 | 59783 | 0 |
| [| Ba | 137 | 29.399 | ug/L | 0.546 | 1 | 43 | 102250 | 0 |
| [> | Tb | 159 | | ug/L | | | 350924 | 322313 | 0 |
| [| Tl | 205 | 0.007 | ug/L | 0.001 | 17 | 177 | 319 | 8 |
| | Pb | 208 | 0.575 | ug/L | 0.006 | 1 | 562 | 17530 | 1 |
| | Bi | 209 | | ug/L | | | 268890 | 253555 | 0 |
| | Th | 232 | 0.027 | ug/L | 0.003 | 12 | 265 | 1222 | 9 |
| [| U | 238 | 0.007 | ug/L | 0.001 | 18 | 45 | 295 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 ESPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:43:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 284551 | 0 |
| [Be | 9 | 29.849 | ug/L | 0.236 | 0 | 7 | 11234 | 0 |
| C | 13 | | mg/L | | | 5188 | 6778 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3223337 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 224042 | 0 |
| V-1 | 51 | 31.858 | ug/L | 0.239 | 0 | 1664 | 316017 | 0 |
| V | 51 | 31.370 | ug/L | 0.214 | 0 | 10593 | 325206 | 0 |
| Cr | 52 | 32.750 | ug/L | 0.322 | 0 | 6396 | 292416 | 0 |
| Cr | 53 | 31.202 | ug/L | 0.361 | 1 | 3578 | 35981 | 0 |
| Mn | 55 | 80.671 | ug/L | 0.599 | 0 | 524 | 1172284 | 0 |
| Co | 59 | 32.591 | ug/L | 0.182 | 0 | 35 | 367943 | 0 |
| [> Ge | 72 | | ug/L | | | 356014 | 310342 | 0 |
| Ni | 60 | 33.911 | ug/L | 0.484 | 1 | 58 | 81929 | 1 |
| Ni | 62 | 32.019 | ug/L | 0.631 | 1 | 858 | 12433 | 2 |
| Cu | 63 | 41.812 | ug/L | 0.256 | 0 | 717 | 235331 | 0 |
| Cu | 65 | 41.517 | ug/L | 0.241 | 0 | 115 | 112183 | 0 |
| Zn | 66 | 188.453 | ug/L | 0.907 | 0 | 264 | 338846 | 0 |
| Zn | 67 | 172.521 | ug/L | 1.737 | 1 | 274 | 51722 | 1 |
| Zn | 68 | 185.172 | ug/L | 0.492 | 0 | 6792 | 241242 | 0 |
| As-1 | 75 | 31.984 | ug/L | 0.259 | 0 | 438 | 55971 | 0 |
| As | 75 | 32.011 | ug/L | 0.174 | 0 | 9846 | 63852 | 0 |
| Se | 82 | 93.667 | ug/L | 0.472 | 0 | 5 | 15258 | 0 |
| Se | 78 | 95.601 | ug/L | 0.312 | 0 | 9976 | 47180 | 0 |
| [Mo | 98 | 2.000 | ug/L | 0.058 | 2 | 30 | 11857 | 3 |
| Y | 89 | | ug/L | | | 271537 | 261014 | 1 |
| Kr | 83 | | ug/L | | | 231 | 227 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 335774 | 0 |
| Ag | 107 | 30.068 | ug/L | 0.375 | 1 | 72 | 340915 | 1 |
| Cd | 111 | 30.933 | ug/L | 0.086 | 0 | 177 | 82654 | 0 |
| Cd | 114 | 30.465 | ug/L | 0.154 | 0 | 20 | 192114 | 0 |
| Sb | 121 | 1.849 | ug/L | 0.011 | 0 | 153 | 18540 | 0 |
| Sb | 123 | 1.865 | ug/L | 0.022 | 1 | 120 | 13999 | 0 |
| Ba | 135 | 59.346 | ug/L | 0.812 | 1 | 25 | 123045 | 0 |
| [Ba | 137 | 59.938 | ug/L | 1.145 | 1 | 43 | 209781 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 321437 | 0 |
| Tl | 205 | 29.604 | ug/L | 0.259 | 0 | 177 | 685662 | 0 |
| Pb | 208 | 32.660 | ug/L | 0.317 | 0 | 562 | 964470 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 255014 | 0 |
| Th | 232 | 29.618 | ug/L | 0.235 | 0 | 265 | 1066266 | 0 |
| [U | 238 | 30.386 | ug/L | 0.479 | 1 | 45 | 1173956 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:50:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 287835 | 0 |
| [Be | 9 | 0.016 | ug/L | 0.003 | 22 | 7 | 17 | 7 |
| C | 13 | | mg/L | | | 5188 | 7079 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3226447 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 230871 | 0 |
| V-1 | 51 | 0.388 | ug/L | 0.029 | 7 | 1664 | 5579 | 4 |
| V | 51 | -0.072 | ug/L | 0.018 | 25 | 10593 | 9651 | 1 |
| Cr | 52 | 0.595 | ug/L | 0.014 | 2 | 6396 | 11638 | 0 |
| Cr | 53 | -0.833 | ug/L | 0.034 | 4 | 3578 | 2617 | 1 |
| Mn | 55 | 70.655 | ug/L | 0.297 | 0 | 524 | 1058138 | 0 |
| [Co | 59 | 0.295 | ug/L | 0.008 | 2 | 35 | 3466 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 315244 | 0 |
| Ni | 60 | 2.513 | ug/L | 0.045 | 1 | 58 | 6215 | 1 |
| Ni | 62 | 0.696 | ug/L | 0.033 | 4 | 858 | 1018 | 0 |
| Cu | 63 | 6.963 | ug/L | 0.025 | 0 | 717 | 40339 | 0 |
| Cu | 65 | 7.010 | ug/L | 0.143 | 2 | 115 | 19325 | 1 |
| Zn | 66 | 98.403 | ug/L | 0.892 | 0 | 264 | 179835 | 0 |
| Zn | 67 | 88.840 | ug/L | 0.790 | 0 | 274 | 27171 | 0 |
| Zn | 68 | 98.403 | ug/L | 1.246 | 1 | 6792 | 133033 | 0 |
| As-1 | 75 | 0.496 | ug/L | 0.032 | 6 | 438 | 1262 | 4 |
| As | 75 | 0.677 | ug/L | 0.021 | 3 | 9846 | 9906 | 1 |
| Se | 82 | 0.129 | ug/L | 0.075 | 57 | 5 | 26 | 46 |
| Se | 78 | 0.971 | ug/L | 0.094 | 9 | 9976 | 9230 | 0 |
| [Mo | 98 | 1.407 | ug/L | 0.028 | 1 | 30 | 8479 | 1 |
| Y | 89 | | ug/L | | | 271537 | 261444 | 0 |
| Kr | 83 | | ug/L | | | 231 | 217 | 4 |
| [> In | 115 | | ug/L | | | 392029 | 338002 | 0 |
| Ag | 107 | 0.030 | ug/L | 0.005 | 15 | 72 | 405 | 13 |
| Cd | 111 | 0.102 | ug/L | 0.006 | 5 | 177 | 426 | 3 |
| Cd | 114 | 0.122 | ug/L | 0.004 | 3 | 20 | 790 | 3 |
| Sb | 121 | 1.180 | ug/L | 0.007 | 0 | 153 | 11963 | 0 |
| Sb | 123 | 1.178 | ug/L | 0.006 | 0 | 120 | 8938 | 0 |
| Ba | 135 | 29.097 | ug/L | 0.298 | 1 | 25 | 60741 | 0 |
| [Ba | 137 | 29.144 | ug/L | 0.502 | 1 | 43 | 102702 | 1 |
| [> Tb | 159 | | ug/L | | | 350924 | 325298 | 0 |
| Tl | 205 | 0.029 | ug/L | 0.003 | 11 | 177 | 853 | 9 |
| Pb | 208 | 0.554 | ug/L | 0.005 | 0 | 562 | 17084 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 256642 | 0 |
| Th | 232 | 0.057 | ug/L | 0.006 | 10 | 265 | 2315 | 9 |
| [U | 238 | 0.034 | ug/L | 0.007 | 19 | 45 | 1362 | 19 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN39 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 00:57:22

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 290670 | 0 |
| [Be | 9 | -0.004 | ug/L | 0.010 | 225 | 7 | 10 | 37 |
| C | 13 | | mg/L | | | 5188 | 6363 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3888056 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 221911 | 0 |
| V-1 | 51 | 2.037 | ug/L | 0.004 | 0 | 1664 | 21482 | 0 |
| V | 51 | 2.246 | ug/L | 0.016 | 0 | 10593 | 32348 | 0 |
| Cr | 52 | 1.007 | ug/L | 0.013 | 1 | 6396 | 14761 | 0 |
| Cr | 53 | 1.707 | ug/L | 0.059 | 3 | 3578 | 5142 | 1 |
| Mn | 55 | 18.358 | ug/L | 0.083 | 0 | 524 | 264622 | 0 |
| Co | 59 | 0.248 | ug/L | 0.006 | 2 | 35 | 2808 | 3 |
| > Ge | 72 | | ug/L | | | 356014 | 314312 | 0 |
| Ni | 60 | 1.350 | ug/L | 0.028 | 2 | 58 | 3353 | 2 |
| Ni | 62 | -0.099 | ug/L | 0.095 | 96 | 858 | 721 | 4 |
| Cu | 63 | 7.984 | ug/L | 0.095 | 1 | 717 | 46027 | 1 |
| Cu | 65 | 7.704 | ug/L | 0.104 | 1 | 115 | 21166 | 1 |
| Zn | 66 | 180.806 | ug/L | 0.728 | 0 | 264 | 329267 | 0 |
| Zn | 67 | 161.918 | ug/L | 0.544 | 0 | 274 | 49177 | 0 |
| Zn | 68 | 178.391 | ug/L | 0.987 | 0 | 6792 | 235593 | 0 |
| As-1 | 75 | 0.376 | ug/L | 0.026 | 6 | 438 | 1049 | 4 |
| As | 75 | 0.430 | ug/L | 0.060 | 13 | 9846 | 9445 | 0 |
| Se | 82 | 0.412 | ug/L | 0.059 | 14 | 5 | 72 | 13 |
| Se | 78 | 0.702 | ug/L | 0.194 | 27 | 9976 | 9093 | 0 |
| Mo | 98 | 0.816 | ug/L | 0.025 | 3 | 30 | 4911 | 2 |
| Y | 89 | | ug/L | | | 271537 | 264857 | 1 |
| Kr | 83 | | ug/L | | | 231 | 213 | 3 |
| > In | 115 | | ug/L | | | 392029 | 333548 | 1 |
| Ag | 107 | 0.013 | ug/L | 0.003 | 22 | 72 | 205 | 15 |
| Cd | 111 | 0.123 | ug/L | 0.015 | 11 | 177 | 477 | 7 |
| Cd | 114 | 0.157 | ug/L | 0.007 | 4 | 20 | 1001 | 3 |
| Sb | 121 | 0.454 | ug/L | 0.007 | 1 | 153 | 4617 | 2 |
| Sb | 123 | 0.453 | ug/L | 0.006 | 1 | 120 | 3459 | 2 |
| Ba | 135 | 15.437 | ug/L | 0.143 | 0 | 25 | 31810 | 0 |
| Ba | 137 | 15.474 | ug/L | 0.410 | 2 | 43 | 53819 | 1 |
| > Tb | 159 | | ug/L | | | 350924 | 323145 | 0 |
| Tl | 205 | 0.017 | ug/L | 0.002 | 11 | 177 | 554 | 8 |
| Pb | 208 | 2.736 | ug/L | 0.019 | 0 | 562 | 81687 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 248443 | 0 |
| Th | 232 | 0.024 | ug/L | 0.001 | 2 | 265 | 1113 | 1 |
| U | 238 | 0.024 | ug/L | 0.002 | 8 | 45 | 985 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN29 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 01:04:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 293199 | 0 |
| [Be | 9 | -0.022 | ug/L | 0.005 | 22 | 7 | 3 | 57 |
| C | 13 | | mg/L | | | 5188 | 6206 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3209171 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 223911 | 0 |
| V-1 | 51 | 2.270 | ug/L | 0.021 | 0 | 1664 | 23975 | 0 |
| V | 51 | 1.736 | ug/L | 0.033 | 1 | 10593 | 27516 | 0 |
| Cr | 52 | 0.709 | ug/L | 0.006 | 0 | 6396 | 12287 | 0 |
| Cr | 53 | -0.850 | ug/L | 0.092 | 10 | 3578 | 2521 | 3 |
| Mn | 55 | 12.002 | ug/L | 0.106 | 0 | 524 | 174746 | 1 |
| [Co | 59 | 0.184 | ug/L | 0.009 | 4 | 35 | 2110 | 3 |
| [> Ge | 72 | | ug/L | | | 356014 | 319830 | 1 |
| Ni | 60 | 0.963 | ug/L | 0.017 | 1 | 58 | 2448 | 3 |
| Ni | 62 | -0.686 | ug/L | 0.019 | 2 | 858 | 512 | 0 |
| Cu | 63 | 13.714 | ug/L | 0.040 | 0 | 717 | 79983 | 0 |
| Cu | 65 | 13.733 | ug/L | 0.086 | 0 | 115 | 38311 | 1 |
| Zn | 66 | 104.487 | ug/L | 1.309 | 1 | 264 | 193737 | 2 |
| Zn | 67 | 95.452 | ug/L | 0.389 | 0 | 274 | 29601 | 1 |
| Zn | 68 | 104.046 | ug/L | 0.771 | 0 | 6792 | 142370 | 1 |
| As-1 | 75 | 2.129 | ug/L | 0.025 | 1 | 438 | 4206 | 0 |
| As | 75 | 2.207 | ug/L | 0.067 | 3 | 9846 | 12772 | 0 |
| Se | 82 | 0.061 | ug/L | 0.069 | 112 | 5 | 15 | 75 |
| Se | 78 | 0.415 | ug/L | 0.249 | 60 | 9976 | 9133 | 0 |
| [Mo | 98 | 0.271 | ug/L | 0.005 | 1 | 30 | 1680 | 0 |
| Y | 89 | | ug/L | | | 271537 | 267298 | 2 |
| Kr | 83 | | ug/L | | | 231 | 220 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 343556 | 0 |
| Ag | 107 | 0.011 | ug/L | 0.001 | 6 | 72 | 188 | 4 |
| Cd | 111 | 0.113 | ug/L | 0.020 | 17 | 177 | 463 | 11 |
| Cd | 114 | 0.133 | ug/L | 0.004 | 3 | 20 | 876 | 3 |
| Sb | 121 | 0.291 | ug/L | 0.006 | 1 | 153 | 3101 | 1 |
| Sb | 123 | 0.290 | ug/L | 0.005 | 1 | 120 | 2319 | 1 |
| Ba | 135 | 12.499 | ug/L | 0.088 | 0 | 25 | 26532 | 0 |
| [Ba | 137 | 12.628 | ug/L | 0.127 | 1 | 43 | 45253 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 327818 | 0 |
| Tl | 205 | 0.014 | ug/L | 0.002 | 17 | 177 | 489 | 11 |
| Pb | 208 | 1.171 | ug/L | 0.013 | 1 | 562 | 35765 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 260746 | 0 |
| Th | 232 | 0.008 | ug/L | 0.001 | 12 | 265 | 550 | 6 |
| [U | 238 | 0.009 | ug/L | 0.001 | 9 | 45 | 413 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN39 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 01:11:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 294692 | 0 |
| [Be | 9 | -0.010 | ug/L | 0.012 | 118 | 7 | 7 | 59 |
| C | 13 | | mg/L | | | 5188 | 6614 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3315802 | 1 |
| [> Sc | 45 | | ug/L | | | 235104 | 228148 | 1 |
| V-1 | 51 | 3.147 | ug/L | 0.102 | 3 | 1664 | 33237 | 2 |
| V | 51 | 2.638 | ug/L | 0.091 | 3 | 10593 | 37259 | 1 |
| Cr | 52 | 1.060 | ug/L | 0.043 | 4 | 6396 | 15646 | 1 |
| Cr | 53 | -0.393 | ug/L | 0.028 | 6 | 3578 | 3054 | 0 |
| Mn | 55 | 33.452 | ug/L | 0.496 | 1 | 524 | 495305 | 1 |
| [Co | 59 | 0.339 | ug/L | 0.007 | 2 | 35 | 3934 | 2 |
| [> Ge | 72 | | ug/L | | | 356014 | 321409 | 0 |
| Ni | 60 | 2.920 | ug/L | 0.042 | 1 | 58 | 7354 | 1 |
| Ni | 62 | 1.287 | ug/L | 0.046 | 3 | 858 | 1261 | 1 |
| Cu | 63 | 5.684 | ug/L | 0.076 | 1 | 717 | 33693 | 0 |
| Cu | 65 | 5.748 | ug/L | 0.047 | 0 | 115 | 16174 | 1 |
| Zn | 66 | 127.003 | ug/L | 1.003 | 0 | 264 | 236579 | 0 |
| Zn | 67 | 115.694 | ug/L | 3.067 | 2 | 274 | 36002 | 2 |
| Zn | 68 | 125.883 | ug/L | 0.575 | 0 | 6792 | 171811 | 0 |
| As-1 | 75 | 0.474 | ug/L | 0.016 | 3 | 438 | 1248 | 2 |
| As | 75 | 0.557 | ug/L | 0.042 | 7 | 9846 | 9884 | 0 |
| Se | 82 | 0.039 | ug/L | 0.063 | 159 | 5 | 11 | 90 |
| Se | 78 | 0.481 | ug/L | 0.153 | 31 | 9976 | 9206 | 0 |
| [Mo | 98 | 1.219 | ug/L | 0.009 | 0 | 30 | 7496 | 0 |
| Y | 89 | | ug/L | | | 271537 | 272286 | 0 |
| Kr | 83 | | ug/L | | | 231 | 225 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 343652 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 19 | 72 | 129 | 10 |
| Cd | 111 | 0.050 | ug/L | 0.010 | 20 | 177 | 292 | 8 |
| Cd | 114 | 0.055 | ug/L | 0.006 | 11 | 20 | 373 | 10 |
| Sb | 121 | 0.458 | ug/L | 0.005 | 1 | 153 | 4806 | 1 |
| Sb | 123 | 0.467 | ug/L | 0.005 | 0 | 120 | 3666 | 1 |
| Ba | 135 | 16.361 | ug/L | 0.166 | 1 | 25 | 34735 | 0 |
| [Ba | 137 | 16.427 | ug/L | 0.133 | 0 | 43 | 58869 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 328896 | 0 |
| Tl | 205 | 0.010 | ug/L | 0.001 | 6 | 177 | 391 | 2 |
| Pb | 208 | 2.920 | ug/L | 0.046 | 1 | 562 | 88703 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 263015 | 0 |
| Th | 232 | 0.022 | ug/L | 0.001 | 4 | 265 | 1041 | 3 |
| [U | 238 | 0.016 | ug/L | 0.000 | 3 | 45 | 669 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QO34 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 01:17:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 288929 | 1 |
| [Be | 9 | -0.018 | ug/L | 0.007 | 37 | 7 | 4 | 56 |
| C | 13 | | mg/L | | | 5188 | 6266 | 0 |
| Cl | 37 | | mg/L | | | 4051958 | 3187641 | 0 |
| > Sc | 45 | | ug/L | | | 235104 | 248338 | 1 |
| V-1 | 51 | 1.936 | ug/L | 1.196 | 61 | 1664 | 23001 | 57 |
| V | 51 | 1.338 | ug/L | 0.031 | 2 | 10593 | 26089 | 0 |
| Cr | 52 | 36.826 | ug/L | 3.144 | 8 | 6396 | 363811 | 9 |
| Cr | 53 | 33.116 | ug/L | 0.670 | 2 | 3578 | 42098 | 1 |
| Mn | 55 | 0.688 | ug/L | 0.011 | 1 | 524 | 11636 | 1 |
| Co | 59 | 0.217 | ug/L | 0.001 | 0 | 35 | 2746 | 0 |
| > Ge | 72 | | ug/L | | | 356014 | 309936 | 0 |
| Ni | 60 | 36.509 | ug/L | 0.626 | 1 | 58 | 88082 | 1 |
| Ni | 62 | 34.398 | ug/L | 0.229 | 0 | 858 | 13283 | 1 |
| Cu | 63 | 2.586 | ug/L | 0.046 | 1 | 717 | 15119 | 1 |
| Cu | 65 | 2.606 | ug/L | 0.051 | 1 | 115 | 7126 | 2 |
| Zn | 66 | 13.010 | ug/L | 0.255 | 1 | 264 | 23572 | 1 |
| Zn | 67 | 11.639 | ug/L | 0.353 | 3 | 274 | 3707 | 3 |
| Zn | 68 | 13.096 | ug/L | 0.072 | 0 | 6792 | 22533 | 0 |
| As-1 | 75 | 1.391 | ug/L | 0.031 | 2 | 438 | 2795 | 2 |
| As | 75 | 1.423 | ug/L | 0.092 | 6 | 9846 | 11025 | 1 |
| Se | 82 | 9.935 | ug/L | 0.048 | 0 | 5 | 1620 | 0 |
| Se | 78 | 10.409 | ug/L | 0.296 | 2 | 9976 | 12869 | 0 |
| Mo | 98 | 0.436 | ug/L | 0.007 | 1 | 30 | 2603 | 2 |
| Y | 89 | | ug/L | | | 271537 | 266362 | 0 |
| Kr | 83 | | ug/L | | | 231 | 217 | 0 |
| > In | 115 | | ug/L | | | 392029 | 331593 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 17 | 72 | 120 | 8 |
| Cd | 111 | 16.629 | ug/L | 0.311 | 1 | 177 | 43950 | 2 |
| Cd | 114 | 16.544 | ug/L | 0.165 | 0 | 20 | 103040 | 1 |
| Sb | 121 | 0.141 | ug/L | 0.002 | 1 | 153 | 1516 | 1 |
| Sb | 123 | 0.137 | ug/L | 0.005 | 3 | 120 | 1107 | 2 |
| Ba | 135 | 11.441 | ug/L | 0.135 | 1 | 25 | 23443 | 1 |
| Ba | 137 | 11.640 | ug/L | 0.016 | 0 | 43 | 40263 | 0 |
| > Tb | 159 | | ug/L | | | 350924 | 320161 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 33 | 177 | 226 | 10 |
| Pb | 208 | 0.079 | ug/L | 0.002 | 2 | 562 | 2836 | 1 |
| Bi | 209 | | ug/L | | | 268890 | 255836 | 0 |
| Th | 232 | 0.003 | ug/L | 0.001 | 22 | 265 | 359 | 6 |
| U | 238 | 0.042 | ug/L | 0.001 | 3 | 45 | 1655 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV12

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 01:24:41

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 186084 | 286238 | 0 |
| [Be | 9 | 48.098 | ug/L | 0.178 | 0 | 7 | 18203 | 0 |
| C | 13 | | mg/L | | | 5188 | 4599 | 1 |
| Cl | 37 | | mg/L | | | 4051958 | 3156270 | 0 |
| [> Sc | 45 | | ug/L | | | 235104 | 216948 | 1 |
| V-1 | 51 | 50.810 | ug/L | 0.463 | 0 | 1664 | 487125 | 0 |
| V | 51 | 50.247 | ug/L | 0.515 | 1 | 10593 | 498506 | 0 |
| Cr | 52 | 50.607 | ug/L | 0.622 | 1 | 6396 | 434356 | 1 |
| Cr | 53 | 48.887 | ug/L | 0.257 | 0 | 3578 | 52721 | 1 |
| Mn | 55 | 51.397 | ug/L | 0.503 | 0 | 524 | 723406 | 0 |
| [Co | 59 | 51.041 | ug/L | 0.124 | 0 | 35 | 557994 | 1 |
| [> Ge | 72 | | ug/L | | | 356014 | 311397 | 0 |
| Ni | 60 | 49.122 | ug/L | 0.108 | 0 | 58 | 119063 | 0 |
| Ni | 62 | 47.319 | ug/L | 0.558 | 1 | 858 | 18076 | 1 |
| Cu | 63 | 49.775 | ug/L | 0.304 | 0 | 717 | 280994 | 0 |
| Cu | 65 | 49.650 | ug/L | 0.157 | 0 | 115 | 134597 | 0 |
| Zn | 66 | 48.848 | ug/L | 0.248 | 0 | 264 | 88302 | 0 |
| Zn | 67 | 48.552 | ug/L | 0.208 | 0 | 274 | 14777 | 0 |
| Zn | 68 | 48.702 | ug/L | 0.436 | 0 | 6792 | 68042 | 0 |
| As-1 | 75 | 49.093 | ug/L | 0.161 | 0 | 438 | 85999 | 0 |
| As | 75 | 49.339 | ug/L | 0.117 | 0 | 9846 | 94088 | 0 |
| Se | 82 | 49.682 | ug/L | 0.323 | 0 | 5 | 8123 | 0 |
| Se | 78 | 50.897 | ug/L | 0.140 | 0 | 9976 | 29284 | 0 |
| [Mo | 98 | 51.145 | ug/L | 0.463 | 0 | 30 | 303493 | 0 |
| Y | 89 | | ug/L | | | 271537 | 258649 | 0 |
| Kr | 83 | | ug/L | | | 231 | 234 | 2 |
| [> In | 115 | | ug/L | | | 392029 | 329621 | 0 |
| Ag | 107 | 50.494 | ug/L | 0.322 | 0 | 72 | 561979 | 0 |
| Cd | 111 | 49.775 | ug/L | 1.066 | 2 | 177 | 130468 | 1 |
| Cd | 114 | 49.866 | ug/L | 1.051 | 2 | 20 | 308672 | 1 |
| Sb | 121 | 48.751 | ug/L | 0.549 | 1 | 153 | 476630 | 0 |
| Sb | 123 | 49.003 | ug/L | 0.913 | 1 | 120 | 358548 | 1 |
| Ba | 135 | 49.104 | ug/L | 0.238 | 0 | 25 | 99952 | 0 |
| [Ba | 137 | 49.736 | ug/L | 0.195 | 0 | 43 | 170896 | 0 |
| [> Tb | 159 | | ug/L | | | 350924 | 319496 | 1 |
| Tl | 205 | 46.666 | ug/L | 0.245 | 0 | 177 | 1074241 | 0 |
| Pb | 208 | 50.302 | ug/L | 0.589 | 1 | 562 | 1476173 | 0 |
| Bi | 209 | | ug/L | | | 268890 | 251514 | 0 |
| Th | 232 | 46.331 | ug/L | 0.491 | 1 | 265 | 1657788 | 1 |
| [U | 238 | 47.064 | ug/L | 0.214 | 0 | 45 | 1807388 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB12

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 01:32:08

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\033110D.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 186084 | 286317 | 0 |
| [Be | 9 | 0.009 | ug/L | 0.014 | 157 | 7 | 15 | 36 |
| C | 13 | | mg/L | | | 5188 | 4840 | 2 |
| Cl | 37 | | mg/L | | | 4051958 | 3181199 | 1 |
| > Sc | 45 | | ug/L | | | 235104 | 217295 | 0 |
| V-1 | 51 | 0.022 | ug/L | 0.023 | 103 | 1664 | 1751 | 13 |
| V | 51 | -0.544 | ug/L | 0.014 | 2 | 10593 | 4486 | 3 |
| Cr | 52 | -0.075 | ug/L | 0.008 | 11 | 6396 | 5277 | 1 |
| Cr | 53 | -1.813 | ug/L | 0.049 | 2 | 3578 | 1471 | 3 |
| Mn | 55 | 0.027 | ug/L | 0.013 | 48 | 524 | 863 | 21 |
| Co | 59 | 0.033 | ug/L | 0.013 | 39 | 35 | 391 | 36 |
| > Ge | 72 | | ug/L | | | 356014 | 307075 | 0 |
| Ni | 60 | 0.031 | ug/L | 0.020 | 63 | 58 | 125 | 38 |
| Ni | 62 | -1.730 | ug/L | 0.018 | 1 | 858 | 115 | 5 |
| Cu | 63 | -0.036 | ug/L | 0.017 | 46 | 717 | 418 | 22 |
| Cu | 65 | 0.032 | ug/L | 0.015 | 47 | 115 | 184 | 21 |
| Zn | 66 | 0.055 | ug/L | 0.016 | 28 | 264 | 326 | 9 |
| Zn | 67 | -0.373 | ug/L | 0.032 | 8 | 274 | 126 | 7 |
| Zn | 68 | 0.012 | ug/L | 0.028 | 227 | 6792 | 5873 | 0 |
| As-1 | 75 | 0.057 | ug/L | 0.017 | 30 | 438 | 476 | 6 |
| As | 75 | 0.279 | ug/L | 0.078 | 27 | 9846 | 8969 | 1 |
| Se | 82 | 0.022 | ug/L | 0.034 | 159 | 5 | 8 | 67 |
| Se | 78 | 1.074 | ug/L | 0.307 | 28 | 9976 | 9032 | 1 |
| Mo | 98 | 0.067 | ug/L | 0.024 | 35 | 30 | 421 | 33 |
| Y | 89 | | ug/L | | | 271537 | 260624 | 1 |
| Kr | 83 | | ug/L | | | 231 | 216 | 2 |
| > In | 115 | | ug/L | | | 392029 | 330381 | 0 |
| Ag | 107 | 0.032 | ug/L | 0.011 | 33 | 72 | 422 | 28 |
| Cd | 111 | 0.023 | ug/L | 0.017 | 72 | 177 | 210 | 20 |
| Cd | 114 | 0.031 | ug/L | 0.016 | 52 | 20 | 207 | 47 |
| Sb | 121 | 0.191 | ug/L | 0.067 | 35 | 153 | 1996 | 32 |
| Sb | 123 | 0.188 | ug/L | 0.084 | 44 | 120 | 1480 | 41 |
| Ba | 135 | 0.033 | ug/L | 0.008 | 22 | 25 | 90 | 16 |
| Ba | 137 | 0.030 | ug/L | 0.013 | 41 | 43 | 141 | 30 |
| > Tb | 159 | | ug/L | | | 350924 | 317447 | 1 |
| Tl | 205 | 0.036 | ug/L | 0.013 | 35 | 177 | 980 | 31 |
| Pb | 208 | 0.037 | ug/L | 0.014 | 38 | 562 | 1598 | 27 |
| Bi | 209 | | ug/L | | | 268890 | 254906 | 0 |
| Th | 232 | 0.064 | ug/L | 0.015 | 22 | 265 | 2509 | 22 |
| U | 238 | 0.034 | ug/L | 0.013 | 37 | 45 | 1335 | 37 |

end package



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4.1.10

Analyst: BW

Page: 1 of 7

All corrections made by analyst unless otherwise noted.

BW 4.2.10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------------------|-----------|----------|---------------|
| | | std 0 | | | 2690-9 |
| | | ↓ 1 | | | 2692-3 |
| | | ↓ 2 | | | ↓ -4 |
| | | ↓ 3 | | | 2695-2 |
| | | ↓ 4 | | | 2693-2 |
| | | rins sample | | | |
| | | std 0 | | | |
| | | old ICV 222222 | | | |
| | | ICV | | | 2695-4 |
| | | ICB | | | |
| | | std 0 | | | |
| | | CCV 1 | | | |
| | | CCB 1 | | | |
| | | low check | | | |
| | | ICSA | | | |
| | | ICSAB | | | |
| | | LC | | | |
| | | LR 200 | | | |
| | | LR 300 | | | |
| | | CCV 2 | | | Li high Ohigh |
| | | CCB 2 | | | ↓ |
| | | QK 39 B-L | REN | 25 ✓ | Cr |
| | | ↓ B | ↓ | 5 | ↓ |
| | | ↓ Bdep | ↓ | ↓ ✓ | ↓ |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4.1.10 Analyst: REW Page: 2 of 7

All corrections made by analyst unless otherwise noted. REW 4/1/10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|---------------------------------|
| | | QK39 B5ph | REW | 5 ✓ | Cr |
| | | QK56 B ✓ | ↓ | ↓ | ↓ |
| | | ↓ D | ↓ | ↓ | ↓ |
| | | QL06 E | ↓ | ↓ | ↓ |
| | | ↓ F | ↓ | ↓ | ↓ |
| | | QJ71 D | ↓ | ↓ | ↓ |
| | | QJ39 F | ↓ | 10 | ↓ |
| | | CCV3 | | | 82Se 82Se Mo Pb high |
| | | CCB3 | | | 53Cr low |
| | | std 0 | | | |
| | | CCV4 | | | 82Se Mo Pb high |
| | | CCB4 | | | |
| | | QJ39 B-L | REW | 50 ✓ | Cr |
| | | ↓ B | ↓ | 10 | ↓ |
| | | ↓ Bdep | ↓ | ↓ ✓ | ↓ |
| | | ↓ B5ph | ↓ | ↓ ✓ | ↓ |
| | | QK01 B ✓ | | 5 | ↓ |
| | | QK15 C | | ↓ | ↓ |
| | | ↓ D | | ↓ | ↓ |
| | | ↓ H | | ↓ | ↓ |
| | | ↓ I | | ↓ | ↓ |
| | | QN68 A | ↓ | 2 | Ni |
| | | CCV5 | | | 82Se Mo Pb high |
| | | CCB5 | | | As 2 78Se high |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 4.1.10 Analyst: BW Page: 3 of 7

All corrections made by analyst unless otherwise noted. BW 4.2.10

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------------|-----------|----------|--|
| | | QN21 E | REN | 2 | |
| | | ↓ Epost | ↓ | ↓ | 0.06 ml spk #1 |
| | | QJ34 D | | 10 | Cr |
| | | ↓ E | | ↓ | |
| | | QK15 G | | ↓ | |
| | | QJ60 B | | 2 | rem Be Pb |
| ✓ | | ↓ D | | ↓ | int. stds low - rem 1/10 |
| | | ↓ E | | ↓ | rem Be Pb |
| ✓ | | ↓ F | | ↓ | rem 1/10 |
| | | ↓ H | | ↓ | rem Be Pb |
| | | CCV6 | | | Be low ^{53Cr} ^{62Ni} ^{63Cu} ^{Mo} ^{Pb} ^U high |
| | | CCB6 | | | √ 53Cr 62Ni 63Cu high |
| | | QJ60 MB1 | REN | 2 | rem Be Pb |
| | | ↓ MB2 | ↓ | ↓ | Ag Sb Ti only Ge high |
| | | ↓ MB2sd | ↓ | ↓ | ✓ Ti only Ge In high |
| | | ↓ MB1sd | ↓ | ↓ | |
| | | ↓ A-L | | 10 | |
| | | ↓ A | | 2 | Ge high |
| | | ↓ G-L | | 10 | ✓ rem Be Pb |
| | | ↓ G | | 2 | |
| | | ↓ I | | ↓ | |
| | | QJ35 D | | ↓ | |
| | | CCV7 | | | ^{53Cr} ^{62Ni} ^{Mo} ^{Pb} ^U high |
| | | CCB7 | | | √ 53Cr 62Ni high |

BW
4/5/10

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 4/1/10

| | Analyst <i>RW/12</i> | Peer | Comment |
|---|-------------------------|------|---------|
| Logbook: | | | |
| Analyst, Date, Method info | ✓ | | |
| Sample ID's | ✓ | | |
| Standard/QC solution ID's recorded | ✓ | | |
| Prep codes | ✓ | | |
| Dilution factors | ✓ | | |
| Crossouts/Corrections/Deletions | ✓ | | |
| Calibration: | | | |
| Blank & Standard intensities | ✓ | | |
| Standard deviations | ✓ | | |
| Curve fit | ✓ | | |
| Calibration Verification: | | | |
| ICV/CCV | ✓ | | see log |
| ICB/CCB | ✓ | | ↓ |
| Samples: | | | |
| RSD's & SD's | ✓ | | |
| Internal Standards | ✓ | | see log |
| Carry-over | ✓ | | |
| Method QC: | | | |
| CRI/CRA | ✓ | | |
| ICSA/ICSAB | ✓ | | |
| Post Spikes/Serial Dilutions | ✓ | | |
| Analytic Spikes | ✓ | | |
| Matrix QC: | | | |
| SRM/LCS | ✓ | | see log |
| Matrix Spikes | ✓ | | |
| Matrix Duplicates | ✓ | | |
| Method Blanks | ✓ | | |
| Data Distribution: | | | |
| Requested elements/isotope identified | ✓ | | |
| Correct samples identified for distribution | ✓ | | |
| Raw data match distributed data | ✓ | | |
| Data filename correct | ✓ | | |
| Necessary Analysts Notes and CAF's | ✓ | | QN21 |

Instrument Tuning Report

1st

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.026 ✓ | 2035 | 2169 | 0.734 ✓ | |
| Mg | 23.985 | 24.029 ✓ | 5661 | 2282 | 0.704 | |
| Co | 58.933 | 58.929 ✓ | 14146 | 2558 | 0.673 | |
| In | 114.904 | 114.878 ✓ | 27757 | 3007 | 0.688 | |
| Pb | 207.977 | 207.976 ✓ | 50414 | 3777 | 0.692 | |

Instrument Tuning Report

and

File Name: 2008.tun
File Path: c:\elandata\Tuning

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.026 | 2035 | 2172 | 0.729 | |
| Mg | 23.985 | 24.029 | 5661 | 2282 | 0.713 | ✓ |
| Co | 58.933 | 58.929 | 14146 | 2556 | 0.679 | |
| In | 114.904 | 114.878 | 27757 | 3007 | 0.690 | |
| Pb | 207.977 | 207.976 | 50414 | 3777 | 0.689 | |

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, April 01, 2010 11:31:52
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.6659
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

neb 0.97

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 53203.037 | 354.869 | 0.667 |
| In | 115 | 598570.811 | 4878.676 | 0.815 |
| Pb | 208 | 235051.990 | 1521.644 | 0.647 |
| [> Ba | 138 | 386676.424 | 2281.571 | 0.590 |
| [Ba++ | 69 | 0.015 | 0.000 | 1.052 |
| [> Ce | 140 | 456468.669 | 1167.168 | 0.256 |
| [CeO | 156 | 0.020 | 0.000 | 2.422 |
| Bkgd | 220 | 7.501 | 3.750 | 50.000 |

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, April 01, 2010 11:33:16
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.6660
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

neb 0.94

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 44465.171 | 410.845 | 0.924 |
| In | 115 | 473856.997 | 3315.060 | 0.700 |
| Pb | 208 | 185684.590 | 1060.857 | 0.571 |
| [> Ba | 138 | 328874.032 | 1816.265 | 0.552 |
| [Ba++ | 69 | 0.014 | 0.000 | 1.517 |
| [> Ce | 140 | 388394.030 | 2615.300 | 0.673 |
| [CeO | 156 | 0.018 | 0.000 | 2.741 |
| Bkgd | 220 | 8.251 | 3.011 | 36.490 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 11:39:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 209869 | 0 |
| [Be | 9 | | ug/L | | | | 2 | 0 |
| C | 13 | | mg/L | | | | 6010 | 0 |
| Cl | 37 | | mg/L | | | | 3573702 | 0 |
| [> Sc | 45 | | ug/L | | | | 253821 | 0 |
| V-1 | 51 | | ug/L | | | | 1973 | 5 |
| V | 51 | | ug/L | | | | 11877 | 0 |
| Cr | 52 | | ug/L | | | | 7493 | 1 |
| Cr | 53 | | ug/L | | | | 4013 | 0 |
| Mn | 55 | | ug/L | | | | 1123 | 19 |
| [Co | 59 | | ug/L | | | | 42 | 4 |
| [> Ge | 72 | | ug/L | | | | 421892 | 0 |
| Ni | 60 | | ug/L | | | | 53 | 7 |
| Ni | 62 | | ug/L | | | | 276 | 8 |
| Cu | 63 | | ug/L | | | | 496 | 6 |
| Cu | 65 | | ug/L | | | | 157 | 19 |
| Zn | 66 | | ug/L | | | | 492 | 2 |
| Zn | 67 | | ug/L | | | | 362 | 3 |
| Zn | 68 | | ug/L | | | | 9341 | 1 |
| As-1 | 75 | | ug/L | | | | 548 | 5 |
| As | 75 | | ug/L | | | | 11909 | 0 |
| Se | 82 | | ug/L | | | | 2 | 137 |
| Se | 78 | | ug/L | | | | 12035 | 0 |
| [Mo | 98 | | ug/L | | | | 9 | 11 |
| Y | 89 | | ug/L | | | | 295088 | 0 |
| Kr | 83 | | ug/L | | | | 278 | 1 |
| [> In | 115 | | ug/L | | | | 439510 | 1 |
| Ag | 107 | | ug/L | | | | 44 | 15 |
| Cd | 111 | | ug/L | | | | 197 | 3 |
| Cd | 114 | | ug/L | | | | 19 | 10 |
| Sb | 121 | | ug/L | | | | 54 | 30 |
| Sb | 123 | | ug/L | | | | 38 | 32 |
| Ba | 135 | | ug/L | | | | 25 | 13 |
| [Ba | 137 | | ug/L | | | | 45 | 17 |
| [> Tb | 159 | | ug/L | | | | 379611 | 0 |
| Tl | 205 | | ug/L | | | | 50 | 13 |
| Pb | 208 | | ug/L | | | | 409 | 1 |
| Bi | 209 | | ug/L | | | | 288053 | 0 |
| Th | 232 | | ug/L | | | | 70 | 20 |
| [U | 238 | | ug/L | | | | 26 | 17 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 11:47:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 209869 | 213794 | 0 |
| [| Be | 9 | 10.000 | ug/L | 0.034 | 0 | 2 | 2645 | 0 |
| | C | 13 | | mg/L | | | 6010 | 5512 | 1 |
| | Cl | 37 | | mg/L | | | 3573702 | 3594698 | 0 |
| > | Sc | 45 | | ug/L | | | 253821 | 258195 | 1 |
| | V-1 | 51 | 10.000 | ug/L | 0.085 | 0 | 1973 | 120950 | 0 |
| | V | 51 | 10.000 | ug/L | 0.076 | 0 | 11877 | 132466 | 0 |
| | Cr | 52 | 10.000 | ug/L | 0.216 | 2 | 7493 | 113444 | 1 |
| | Cr | 53 | 10.000 | ug/L | 0.213 | 2 | 4013 | 16502 | 1 |
| | Mn | 55 | 10.000 | ug/L | 0.058 | 0 | 1123 | 181032 | 0 |
| | Co | 59 | 10.000 | ug/L | 0.057 | 0 | 42 | 147954 | 1 |
| > | Ge | 72 | | ug/L | | | 421892 | 426502 | 0 |
| | Ni | 60 | 10.000 | ug/L | 0.147 | 1 | 53 | 32264 | 1 |
| | Ni | 62 | 10.000 | ug/L | 0.080 | 0 | 276 | 5161 | 0 |
| | Cu | 63 | 10.000 | ug/L | 0.128 | 1 | 496 | 77787 | 1 |
| | Cu | 65 | 10.000 | ug/L | 0.137 | 1 | 157 | 38189 | 1 |
| | Zn | 66 | 10.000 | ug/L | 0.066 | 0 | 492 | 25729 | 0 |
| | Zn | 67 | 10.000 | ug/L | 0.142 | 1 | 362 | 4500 | 1 |
| | Zn | 68 | 10.000 | ug/L | 0.107 | 1 | 9341 | 27359 | 0 |
| | As-1 | 75 | 10.000 | ug/L | 0.060 | 0 | 548 | 24440 | 0 |
| | As | 75 | 10.000 | ug/L | 0.087 | 0 | 11909 | 36035 | 0 |
| | Se | 82 | 10.000 | ug/L | 0.221 | 2 | 2 | 2208 | 1 |
| | Se | 78 | 10.000 | ug/L | 0.347 | 3 | 12035 | 17869 | 0 |
| | Mo | 98 | 10.000 | ug/L | 0.012 | 0 | 9 | 71996 | 0 |
| | Y | 89 | | ug/L | | | 295088 | 295134 | 0 |
| | Kr | 83 | | ug/L | | | 278 | 278 | 2 |
| > | In | 115 | | ug/L | | | 439510 | 439706 | 0 |
| | Ag | 107 | 10.000 | ug/L | 0.034 | 0 | 44 | 130676 | 0 |
| | Cd | 111 | 10.000 | ug/L | 0.118 | 1 | 197 | 34500 | 1 |
| | Cd | 114 | 10.000 | ug/L | 0.193 | 1 | 19 | 83686 | 0 |
| | Sb | 121 | 10.000 | ug/L | 0.031 | 0 | 54 | 133369 | 0 |
| | Sb | 123 | 10.000 | ug/L | 0.108 | 1 | 38 | 101255 | 0 |
| | Ba | 135 | 10.000 | ug/L | 0.162 | 1 | 25 | 29457 | 0 |
| | Ba | 137 | 10.000 | ug/L | 0.078 | 0 | 45 | 49627 | 0 |
| > | Tb | 159 | | ug/L | | | 379611 | 385044 | 0 |
| | Tl | 205 | 10.000 | ug/L | 0.054 | 0 | 50 | 247955 | 0 |
| | Pb | 208 | 10.000 | ug/L | 0.033 | 0 | 409 | 341012 | 0 |
| | Bi | 209 | | ug/L | | | 288053 | 289903 | 0 |
| | Th | 232 | 10.000 | ug/L | 0.071 | 0 | 70 | 389673 | 0 |
| | U | 238 | 10.000 | ug/L | 0.137 | 1 | 26 | 420384 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 11:55:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 209869 | 217897 | 0 |
| [Be | 9 | 20.009 | ug/L | 0.146 | 0 | 2 | 5401 | 0 |
| C | 13 | | mg/L | | | 6010 | 5060 | 0 |
| Cl | 37 | | mg/L | | | 3573702 | 3593954 | 0 |
| > Sc | 45 | | ug/L | | | 253821 | 260010 | 0 |
| [V-1 | 51 | 19.925 | ug/L | 0.195 | 0 | 1973 | 237189 | 1 |
| V | 51 | 19.957 | ug/L | 0.155 | 0 | 11877 | 252054 | 0 |
| Cr | 52 | 19.962 | ug/L | 0.167 | 0 | 7493 | 218822 | 1 |
| Cr | 53 | 20.056 | ug/L | 0.113 | 0 | 4013 | 29480 | 0 |
| Mn | 55 | 20.004 | ug/L | 0.146 | 0 | 1123 | 363829 | 0 |
| Co | 59 | 19.952 | ug/L | 0.212 | 1 | 42 | 294398 | 0 |
| > Ge | 72 | | ug/L | | | 421892 | 426574 | 0 |
| [Ni | 60 | 19.965 | ug/L | 0.344 | 1 | 53 | 63924 | 0 |
| Ni | 62 | 19.974 | ug/L | 0.664 | 3 | 276 | 9981 | 3 |
| Cu | 63 | 20.006 | ug/L | 0.192 | 0 | 496 | 155334 | 0 |
| Cu | 65 | 19.954 | ug/L | 0.024 | 0 | 157 | 75367 | 0 |
| Zn | 66 | 19.974 | ug/L | 0.313 | 1 | 492 | 50648 | 2 |
| Zn | 67 | 20.117 | ug/L | 0.178 | 0 | 362 | 8881 | 0 |
| Zn | 68 | 19.968 | ug/L | 0.297 | 1 | 9341 | 44993 | 0 |
| As-1 | 75 | 19.988 | ug/L | 0.117 | 0 | 548 | 48187 | 0 |
| As | 75 | 19.991 | ug/L | 0.164 | 0 | 11909 | 59935 | 0 |
| Se | 82 | 19.915 | ug/L | 0.249 | 1 | 2 | 4322 | 0 |
| Se | 78 | 19.947 | ug/L | 0.490 | 2 | 12035 | 23427 | 0 |
| [Mo | 98 | 19.955 | ug/L | 0.040 | 0 | 9 | 142394 | 0 |
| Y | 89 | | ug/L | | | 295088 | 297130 | 0 |
| Kr | 83 | | ug/L | | | 278 | 292 | 2 |
| > In | 115 | | ug/L | | | 439510 | 438064 | 1 |
| [Ag | 107 | 20.200 | ug/L | 0.261 | 1 | 44 | 273850 | 0 |
| Cd | 111 | 19.992 | ug/L | 0.541 | 2 | 197 | 68396 | 1 |
| Cd | 114 | 19.960 | ug/L | 0.248 | 1 | 19 | 165064 | 0 |
| Sb | 121 | 19.977 | ug/L | 0.271 | 1 | 54 | 264155 | 0 |
| Sb | 123 | 19.986 | ug/L | 0.113 | 0 | 38 | 201007 | 0 |
| Ba | 135 | 19.983 | ug/L | 0.129 | 0 | 25 | 58417 | 0 |
| [Ba | 137 | 19.985 | ug/L | 0.264 | 1 | 45 | 98459 | 0 |
| > Tb | 159 | | ug/L | | | 379611 | 383071 | 0 |
| [Tl | 205 | 20.031 | ug/L | 0.291 | 1 | 50 | 497174 | 0 |
| Pb | 208 | 20.023 | ug/L | 0.225 | 1 | 409 | 681972 | 0 |
| Bi | 209 | | ug/L | | | 288053 | 286034 | 0 |
| Th | 232 | 20.075 | ug/L | 0.328 | 1 | 70 | 790073 | 1 |
| [U | 238 | 20.074 | ug/L | 0.203 | 1 | 26 | 852115 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:02:54

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 209869 | 222211 | 1 |
| [Be | 9 | 49.755 | ug/L | 0.301 | 0 | 2 | 13367 | 1 |
| C | 13 | | mg/L | | | 6010 | 5095 | 1 |
| Cl | 37 | | mg/L | | | 3573702 | 3601282 | 0 |
| [> Sc | 45 | | ug/L | | | 253821 | 258338 | 0 |
| [V-1 | 51 | 49.958 | ug/L | 0.565 | 1 | 1973 | 585353 | 1 |
| [V | 51 | 49.972 | ug/L | 0.402 | 0 | 11877 | 607243 | 0 |
| [Cr | 52 | 49.838 | ug/L | 0.724 | 1 | 7493 | 523035 | 1 |
| [Cr | 53 | 49.890 | ug/L | 0.373 | 0 | 4013 | 66103 | 0 |
| [Mn | 55 | 49.916 | ug/L | 0.262 | 0 | 1123 | 892881 | 0 |
| [Co | 59 | 49.761 | ug/L | 0.414 | 0 | 42 | 712480 | 0 |
| [> Ge | 72 | | ug/L | | | 421892 | 423489 | 0 |
| [Ni | 60 | 49.777 | ug/L | 0.608 | 1 | 53 | 154710 | 1 |
| [Ni | 62 | 49.957 | ug/L | 0.513 | 1 | 276 | 24262 | 0 |
| [Cu | 63 | 49.720 | ug/L | 0.251 | 0 | 496 | 372117 | 0 |
| [Cu | 65 | 49.809 | ug/L | 0.352 | 0 | 157 | 183040 | 0 |
| [Zn | 66 | 49.627 | ug/L | 0.151 | 0 | 492 | 119739 | 0 |
| [Zn | 67 | 49.673 | ug/L | 0.368 | 0 | 362 | 20574 | 0 |
| [Zn | 68 | 49.877 | ug/L | 0.837 | 1 | 9341 | 96457 | 1 |
| [As-1 | 75 | 49.841 | ug/L | 0.486 | 0 | 548 | 116628 | 0 |
| [As | 75 | 49.842 | ug/L | 0.608 | 1 | 11909 | 128662 | 0 |
| [Se | 82 | 49.840 | ug/L | 0.329 | 0 | 2 | 10567 | 1 |
| [Se | 78 | 49.834 | ug/L | 0.373 | 0 | 12035 | 39550 | 0 |
| [Mo | 98 | 49.819 | ug/L | 0.075 | 0 | 9 | 346645 | 0 |
| [Y | 89 | | ug/L | | | 295088 | 292465 | 1 |
| [Kr | 83 | | ug/L | | | 278 | 283 | 2 |
| [> In | 115 | | ug/L | | | 439510 | 434520 | 0 |
| [Ag | 107 | 50.401 | ug/L | 0.540 | 1 | 44 | 706098 | 0 |
| [Cd | 111 | 49.735 | ug/L | 0.382 | 0 | 197 | 164177 | 1 |
| [Cd | 114 | 49.813 | ug/L | 0.404 | 0 | 19 | 401117 | 0 |
| [Sb | 121 | 49.874 | ug/L | 0.358 | 0 | 54 | 646018 | 0 |
| [Sb | 123 | 49.851 | ug/L | 0.224 | 0 | 38 | 489974 | 0 |
| [Ba | 135 | 49.845 | ug/L | 0.231 | 0 | 25 | 142313 | 1 |
| [Ba | 137 | 49.785 | ug/L | 0.210 | 0 | 45 | 238147 | 0 |
| [> Tb | 159 | | ug/L | | | 379611 | 379566 | 1 |
| [Tl | 205 | 49.907 | ug/L | 0.140 | 0 | 50 | 1216044 | 1 |
| [Pb | 208 | 49.848 | ug/L | 0.298 | 0 | 409 | 1656514 | 1 |
| [Bi | 209 | | ug/L | | | 288053 | 283706 | 0 |
| [Th | 232 | 49.943 | ug/L | 0.374 | 0 | 70 | 1936439 | 0 |
| [U | 238 | 50.856 | ug/L | 0.120 | 0 | 26 | 2339340 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:10:43

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 209869 | 222051 | 1 |
| [Be | 9 | 100.087 | ug/L | 1.128 | 1 | 2 | 26942 | 0 |
| C | 13 | | mg/L | | | 6010 | 5010 | 1 |
| Cl | 37 | | mg/L | | | 3573702 | 3623155 | 0 |
| > Sc | 45 | | ug/L | | | 253821 | 258194 | 1 |
| V-1 | 51 | 99.877 | ug/L | 1.876 | 1 | 1973 | 1162643 | 0 |
| V | 51 | 99.878 | ug/L | 1.800 | 1 | 11877 | 1195952 | 0 |
| Cr | 52 | 100.097 | ug/L | 1.892 | 1 | 7493 | 1045385 | 0 |
| Cr | 53 | 100.088 | ug/L | 1.702 | 1 | 4013 | 128780 | 0 |
| Mn | 55 | 99.874 | ug/L | 0.883 | 0 | 1123 | 1776721 | 0 |
| [Co | 59 | 99.837 | ug/L | 0.557 | 0 | 42 | 1420820 | 1 |
| > Ge | 72 | | ug/L | | | 421892 | 423826 | 1 |
| Ni | 60 | 99.672 | ug/L | 2.642 | 2 | 53 | 306545 | 1 |
| Ni | 62 | 99.703 | ug/L | 1.067 | 1 | 276 | 47712 | 0 |
| Cu | 63 | 99.461 | ug/L | 1.656 | 1 | 496 | 731270 | 1 |
| Cu | 65 | 99.567 | ug/L | 1.332 | 1 | 157 | 360772 | 0 |
| Zn | 66 | 99.755 | ug/L | 0.643 | 0 | 492 | 238428 | 1 |
| Zn | 67 | 100.142 | ug/L | 1.839 | 1 | 362 | 41332 | 1 |
| Zn | 68 | 99.865 | ug/L | 1.077 | 1 | 9341 | 183092 | 0 |
| As-1 | 75 | 99.857 | ug/L | 1.282 | 1 | 548 | 232170 | 0 |
| As | 75 | 99.910 | ug/L | 1.398 | 1 | 11909 | 245375 | 0 |
| Se | 82 | 99.556 | ug/L | 1.732 | 1 | 2 | 20811 | 0 |
| Se | 78 | 99.796 | ug/L | 2.229 | 2 | 12035 | 66763 | 0 |
| [Mo | 98 | 100.046 | ug/L | 1.585 | 1 | 9 | 697662 | 1 |
| Y | 89 | | ug/L | | | 295088 | 293547 | 0 |
| Kr | 83 | | ug/L | | | 278 | 295 | 1 |
| > In | 115 | | ug/L | | | 439510 | 429812 | 0 |
| Ag | 107 | 99.694 | ug/L | 0.408 | 0 | 44 | 1367543 | 0 |
| Cd | 111 | 100.259 | ug/L | 0.939 | 0 | 197 | 330008 | 0 |
| Cd | 114 | 99.768 | ug/L | 1.735 | 1 | 19 | 788505 | 1 |
| Sb | 121 | 100.089 | ug/L | 1.131 | 1 | 54 | 1286066 | 0 |
| Sb | 123 | 100.369 | ug/L | 1.661 | 1 | 38 | 987856 | 0 |
| Ba | 135 | 100.088 | ug/L | 1.716 | 1 | 25 | 283433 | 0 |
| [Ba | 137 | 100.326 | ug/L | 0.581 | 0 | 45 | 479858 | 0 |
| > Tb | 159 | | ug/L | | | 379611 | 378453 | 1 |
| Tl | 205 | 102.257 | ug/L | 0.990 | 0 | 50 | 2686122 | 0 |
| Pb | 208 | 99.978 | ug/L | 0.441 | 0 | 409 | 3309884 | 1 |
| Bi | 209 | | ug/L | | | 288053 | 283117 | 0 |
| Th | 232 | 102.563 | ug/L | 0.623 | 0 | 70 | 4335335 | 0 |
| [U | 238 | 100.446 | ug/L | 0.442 | 0 | 26 | 4676403 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:18:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 209869 | 228793 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.003 | 52 | 2 | 4 | 17 |
| C | 13 | | mg/L | | | 6010 | 5725 | 0 |
| Cl | 37 | | mg/L | | | 3573702 | 3676840 | 0 |
| > Sc | 45 | | ug/L | | | 253821 | 260794 | 1 |
| V-1 | 51 | -0.029 | ug/L | 0.018 | 62 | 1973 | 1685 | 12 |
| V | 51 | -0.292 | ug/L | 0.012 | 3 | 11877 | 8702 | 1 |
| Cr | 52 | -0.084 | ug/L | 0.028 | 33 | 7493 | 6815 | 4 |
| Cr | 53 | -0.882 | ug/L | 0.019 | 2 | 4013 | 3014 | 0 |
| Mn | 55 | -0.020 | ug/L | 0.001 | 6 | 1123 | 787 | 3 |
| Co | 59 | 0.001 | ug/L | 0.001 | 87 | 42 | 65 | 28 |
| > Ge | 72 | | ug/L | | | 421892 | 421199 | 0 |
| Ni | 60 | 0.004 | ug/L | 0.001 | 32 | 53 | 65 | 5 |
| Ni | 62 | -0.284 | ug/L | 0.021 | 7 | 276 | 141 | 6 |
| Cu | 63 | -0.003 | ug/L | 0.005 | 160 | 496 | 473 | 8 |
| Cu | 65 | -0.003 | ug/L | 0.005 | 162 | 157 | 146 | 11 |
| Zn | 66 | -0.057 | ug/L | 0.010 | 17 | 492 | 356 | 6 |
| Zn | 67 | -0.189 | ug/L | 0.024 | 12 | 362 | 285 | 3 |
| Zn | 68 | -0.139 | ug/L | 0.062 | 44 | 9341 | 9085 | 1 |
| As-1 | 75 | 0.003 | ug/L | 0.018 | 583 | 548 | 554 | 6 |
| As | 75 | 0.025 | ug/L | 0.104 | 408 | 11909 | 11947 | 1 |
| Se | 82 | -0.010 | ug/L | 0.031 | 328 | 2 | 0 | 758 |
| Se | 78 | 0.111 | ug/L | 0.404 | 364 | 12035 | 12075 | 1 |
| Mo | 98 | 0.021 | ug/L | 0.007 | 33 | 9 | 158 | 31 |
| Y | 89 | | ug/L | | | 295088 | 296531 | 1 |
| Kr | 83 | | ug/L | | | 278 | 283 | 2 |
| > In | 115 | | ug/L | | | 439510 | 430187 | 1 |
| Ag | 107 | 0.014 | ug/L | 0.003 | 18 | 44 | 239 | 14 |
| Cd | 111 | 0.000 | ug/L | 0.004 | 1121 | 197 | 194 | 8 |
| Cd | 114 | 0.002 | ug/L | 0.000 | 19 | 19 | 36 | 9 |
| Sb | 121 | 0.038 | ug/L | 0.009 | 24 | 54 | 537 | 21 |
| Sb | 123 | 0.042 | ug/L | 0.010 | 24 | 38 | 446 | 21 |
| Ba | 135 | 0.005 | ug/L | 0.002 | 48 | 25 | 38 | 16 |
| Ba | 137 | 0.001 | ug/L | 0.002 | 121 | 45 | 50 | 14 |
| > Tb | 159 | | ug/L | | | 379611 | 376328 | 0 |
| Tl | 205 | 0.009 | ug/L | 0.003 | 35 | 50 | 280 | 29 |
| Pb | 208 | 0.005 | ug/L | 0.004 | 71 | 409 | 577 | 21 |
| Bi | 209 | | ug/L | | | 288053 | 289452 | 1 |
| Th | 232 | 0.018 | ug/L | 0.003 | 15 | 70 | 830 | 14 |
| U | 238 | 0.005 | ug/L | 0.002 | 39 | 26 | 238 | 35 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:25:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 232415 | 1 |
| [Be | 9 | | ug/L | | | | 4 | 34 |
| C | 13 | | mg/L | | | | 5699 | 0 |
| Cl | 37 | | mg/L | | | | 3681754 | 0 |
| [> Sc | 45 | | ug/L | | | | 259879 | 0 |
| [V-1 | 51 | | ug/L | | | | 1885 | 12 |
| [V | 51 | | ug/L | | | | 8394 | 1 |
| [Cr | 52 | | ug/L | | | | 6957 | 1 |
| [Cr | 53 | | ug/L | | | | 2867 | 1 |
| [Mn | 55 | | ug/L | | | | 700 | 4 |
| [Co | 59 | | ug/L | | | | 36 | 11 |
| [> Ge | 72 | | ug/L | | | | 422039 | 0 |
| [Ni | 60 | | ug/L | | | | 58 | 7 |
| [Ni | 62 | | ug/L | | | | 131 | 16 |
| [Cu | 63 | | ug/L | | | | 389 | 10 |
| [Cu | 65 | | ug/L | | | | 133 | 7 |
| [Zn | 66 | | ug/L | | | | 360 | 2 |
| [Zn | 67 | | ug/L | | | | 252 | 8 |
| [Zn | 68 | | ug/L | | | | 9075 | 0 |
| [As-1 | 75 | | ug/L | | | | 545 | 3 |
| [As | 75 | | ug/L | | | | 11896 | 0 |
| [Se | 82 | | ug/L | | | | 7 | 98 |
| [Se | 78 | | ug/L | | | | 12038 | 0 |
| [Mo | 98 | | ug/L | | | | 45 | 34 |
| [Y | 89 | | ug/L | | | | 294411 | 0 |
| [Kr | 83 | | ug/L | | | | 278 | 3 |
| [> In | 115 | | ug/L | | | | 431891 | 0 |
| [Ag | 107 | | ug/L | | | | 122 | 22 |
| [Cd | 111 | | ug/L | | | | 202 | 3 |
| [Cd | 114 | | ug/L | | | | 19 | 27 |
| [Sb | 121 | | ug/L | | | | 241 | 11 |
| [Sb | 123 | | ug/L | | | | 175 | 14 |
| [Ba | 135 | | ug/L | | | | 20 | 22 |
| [Ba | 137 | | ug/L | | | | 37 | 18 |
| [> Tb | 159 | | ug/L | | | | 375312 | 0 |
| [Tl | 205 | | ug/L | | | | 97 | 2 |
| [Pb | 208 | | ug/L | | | | 380 | 6 |
| [Bi | 209 | | ug/L | | | | 289784 | 0 |
| [Th | 232 | | ug/L | | | | 440 | 17 |
| [U | 238 | | ug/L | | | | 59 | 28 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Thursday, April 01, 2010 12:25:57

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0450 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0459 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0402 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0048 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0689 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0551 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0073 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0011 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 0.9999 | 0.0173 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0085 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| Se | 82 | 1.0000 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0165 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0319 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0077 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0184 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0299 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0229 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0066 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0111 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9992 | 0.0694 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0875 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9989 | 0.1117 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9998 | 0.1230 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: OLD ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:36:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 232415 | 243204 | 0 |
| [| Be | 9 | 49.954 | ug/L | 0.256 | 0 | 4 | 14732 | 0 |
| | C | 13 | | mg/L | | | 5699 | 7359 | 1 |
| | Cl | 37 | | mg/L | | | 3681754 | 3690231 | 0 |
| > | Sc | 45 | | ug/L | | | 259879 | 267484 | 0 |
| | V-1 | 51 | 50.657 | ug/L | 1.592 | 3 | 1885 | 611838 | 2 |
| | V | 51 | 50.639 | ug/L | 1.128 | 2 | 8394 | 630530 | 1 |
| | Cr | 52 | 50.428 | ug/L | 0.705 | 1 | 6957 | 548848 | 0 |
| | Cr | 53 | 50.385 | ug/L | 0.695 | 1 | 2867 | 67997 | 1 |
| | Mn | 55 | 51.404 | ug/L | 0.312 | 0 | 700 | 947546 | 0 |
| | Co | 59 | 49.964 | ug/L | 0.535 | 1 | 36 | 736649 | 0 |
| > | Ge | 72 | | ug/L | | | 422039 | 431009 | 0 |
| | Ni | 60 | 52.120 | ug/L | 0.470 | 0 | 58 | 163084 | 0 |
| | Ni | 62 | 52.217 | ug/L | 1.139 | 2 | 131 | 25400 | 2 |
| | Cu | 63 | 51.143 | ug/L | 0.327 | 0 | 389 | 382572 | 0 |
| | Cu | 65 | 51.467 | ug/L | 0.460 | 0 | 133 | 189722 | 0 |
| | Zn | 66 | 53.642 | ug/L | 0.754 | 1 | 360 | 130487 | 1 |
| | Zn | 67 | 52.507 | ug/L | 0.248 | 0 | 252 | 22105 | 0 |
| | Zn | 68 | 52.627 | ug/L | 0.281 | 0 | 9075 | 102368 | 0 |
| | As-1 | 75 | 49.822 | ug/L | 0.128 | 0 | 545 | 118092 | 0 |
| | As | 75 | 50.033 | ug/L | 0.108 | 0 | 11896 | 131032 | 0 |
| | Se | 82 | 79.505 | ug/L | 0.823 | 1 | 7 | 16909 | 1 |
| | Se | 78 | 79.446 | ug/L | 0.873 | 1 | 12038 | 56564 | 0 |
| | Mo | 98 | 50.310 | ug/L | 0.482 | 0 | 45 | 356852 | 0 |
| | Y | 89 | | ug/L | | | 294411 | 299896 | 0 |
| | Kr | 83 | | ug/L | | | 278 | 285 | 2 |
| > | In | 115 | | ug/L | | | 431891 | 438932 | 1 |
| | Ag | 107 | 48.181 | ug/L | 0.706 | 1 | 122 | 674991 | 0 |
| | Cd | 111 | 50.475 | ug/L | 0.753 | 1 | 202 | 169764 | 0 |
| | Cd | 114 | 50.433 | ug/L | 0.241 | 0 | 19 | 407082 | 0 |
| | Sb | 121 | 49.315 | ug/L | 0.419 | 0 | 241 | 647323 | 0 |
| | Sb | 123 | 48.802 | ug/L | 0.225 | 0 | 175 | 490713 | 0 |
| | Ba | 135 | 49.629 | ug/L | 0.541 | 1 | 20 | 143534 | 0 |
| | Ba | 137 | 49.582 | ug/L | 0.439 | 0 | 37 | 242195 | 1 |
| > | Tb | 159 | | ug/L | | | 375312 | 384014 | 1 |
| | Tl | 205 | 46.635 | ug/L | 0.389 | 0 | 97 | 1243108 | 0 |
| | Pb | 208 | 52.858 | ug/L | 0.379 | 0 | 380 | 1775737 | 0 |
| | Bi | 209 | | ug/L | | | 289784 | 293829 | 0 |
| | Th | 232 | 53.094 | ug/L | 1.110 | 2 | 440 | 2277402 | 0 |
| | U | 238 | 52.151 | ug/L | 0.616 | 1 | 59 | 2463512 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:43:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\040110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 232415 | 244755 | 0 |
| [Be | 9 | 48.870 | ug/L | 0.184 | 0 | 4 | 14504 | 0 |
| C | 13 | | mg/L | | | 5699 | 4503 | 1 |
| Cl | 37 | | mg/L | | | 3681754 | 3678025 | 0 |
| > Sc | 45 | | ug/L | | | 259879 | 265935 | 0 |
| V-1 | 51 | 49.787 | ug/L | 0.101 | 0 | 1885 | 597931 | 0 |
| V | 51 | 49.841 | ug/L | 0.166 | 0 | 8394 | 617178 | 0 |
| Cr | 52 | 48.910 | ug/L | 0.346 | 0 | 6957 | 529480 | 0 |
| Cr | 53 | 49.128 | ug/L | 0.838 | 1 | 2867 | 65986 | 1 |
| Mn | 55 | 48.520 | ug/L | 0.744 | 1 | 700 | 889212 | 1 |
| Co | 59 | 49.872 | ug/L | 0.584 | 1 | 36 | 731084 | 1 |
| > Ge | 72 | | ug/L | | | 422039 | 425312 | 0 |
| Ni | 60 | 50.571 | ug/L | 0.849 | 1 | 58 | 156143 | 1 |
| Ni | 62 | 50.014 | ug/L | 0.415 | 0 | 131 | 24014 | 1 |
| Cu | 63 | 50.664 | ug/L | 0.580 | 1 | 389 | 373980 | 1 |
| Cu | 65 | 50.083 | ug/L | 0.263 | 0 | 133 | 182187 | 1 |
| Zn | 66 | 50.075 | ug/L | 0.181 | 0 | 360 | 120221 | 0 |
| Zn | 67 | 49.329 | ug/L | 0.382 | 0 | 252 | 20508 | 0 |
| Zn | 68 | 49.011 | ug/L | 0.205 | 0 | 9075 | 94702 | 0 |
| As-1 | 75 | 48.942 | ug/L | 0.518 | 1 | 545 | 114479 | 0 |
| As | 75 | 49.026 | ug/L | 0.655 | 1 | 11896 | 126935 | 0 |
| Se | 82 | 79.976 | ug/L | 0.509 | 0 | 7 | 16784 | 0 |
| Se | 78 | 79.396 | ug/L | 1.135 | 1 | 12038 | 55787 | 0 |
| Mo | 98 | 49.988 | ug/L | 0.888 | 1 | 45 | 349871 | 1 |
| Y | 89 | | ug/L | | | 294411 | 295605 | 0 |
| Kr | 83 | | ug/L | | | 278 | 294 | 4 |
| > In | 115 | | ug/L | | | 431891 | 428126 | 0 |
| Ag | 107 | 48.507 | ug/L | 0.131 | 0 | 122 | 662894 | 0 |
| Cd | 111 | 50.906 | ug/L | 0.387 | 0 | 202 | 167014 | 0 |
| Cd | 114 | 50.231 | ug/L | 0.625 | 1 | 19 | 395481 | 1 |
| Sb | 121 | 49.554 | ug/L | 0.079 | 0 | 241 | 634499 | 0 |
| Sb | 123 | 49.279 | ug/L | 0.201 | 0 | 175 | 483321 | 0 |
| Ba | 135 | 49.635 | ug/L | 0.510 | 1 | 20 | 140030 | 0 |
| Ba | 137 | 49.688 | ug/L | 0.289 | 0 | 37 | 236747 | 0 |
| > Tb | 159 | | ug/L | | | 375312 | 377299 | 0 |
| Tl | 205 | 47.043 | ug/L | 0.210 | 0 | 97 | 1232142 | 0 |
| Pb | 208 | 50.874 | ug/L | 0.286 | 0 | 380 | 1679267 | 0 |
| Bi | 209 | | ug/L | | | 289784 | 289661 | 1 |
| Th | 232 | 48.920 | ug/L | 3.353 | 6 | 440 | 2062563 | 7 |
| U | 238 | 52.780 | ug/L | 0.494 | 0 | 59 | 2449718 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:51:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 232415 | 245405 | 0 |
| [| Be | 9 | 0.001 | ug/L | 0.010 | 1550 | 4 | 4 | 62 |
| | C | 13 | | mg/L | | | 5699 | 5749 | 2 |
| | Cl | 37 | | mg/L | | | 3681754 | 3685242 | 0 |
| > | Sc | 45 | | ug/L | | | 259879 | 261606 | 1 |
| [| V-1 | 51 | -0.005 | ug/L | 0.011 | 237 | 1885 | 1842 | 6 |
| | V | 51 | -0.099 | ug/L | 0.010 | 10 | 8394 | 7259 | 0 |
| | Cr | 52 | -0.025 | ug/L | 0.013 | 51 | 6957 | 6738 | 1 |
| | Cr | 53 | -0.311 | ug/L | 0.037 | 11 | 2867 | 2493 | 1 |
| | Mn | 55 | -0.000 | ug/L | 0.004 | 1055 | 700 | 699 | 9 |
| | Co | 59 | 0.002 | ug/L | 0.000 | 20 | 36 | 60 | 7 |
| > | Ge | 72 | | ug/L | | | 422039 | 424330 | 0 |
| [| Ni | 60 | 0.001 | ug/L | 0.005 | 479 | 58 | 62 | 23 |
| | Ni | 62 | -0.053 | ug/L | 0.011 | 20 | 131 | 107 | 4 |
| | Cu | 63 | -0.003 | ug/L | 0.004 | 126 | 389 | 369 | 6 |
| | Cu | 65 | 0.002 | ug/L | 0.005 | 224 | 133 | 142 | 12 |
| | Zn | 66 | -0.006 | ug/L | 0.012 | 180 | 360 | 347 | 7 |
| | Zn | 67 | -0.078 | ug/L | 0.033 | 42 | 252 | 222 | 5 |
| | Zn | 68 | -0.153 | ug/L | 0.045 | 29 | 9075 | 8858 | 0 |
| | As-1 | 75 | 0.000 | ug/L | 0.023 | 15849 | 545 | 548 | 8 |
| | As | 75 | -0.131 | ug/L | 0.059 | 45 | 11896 | 11652 | 0 |
| | Se | 82 | -0.017 | ug/L | 0.068 | 402 | 7 | 4 | 332 |
| | Se | 78 | -0.555 | ug/L | 0.247 | 44 | 12038 | 11798 | 0 |
| [| Mo | 98 | 0.009 | ug/L | 0.003 | 35 | 45 | 110 | 20 |
| | Y | 89 | | ug/L | | | 294411 | 294270 | 1 |
| | Kr | 83 | | ug/L | | | 278 | 284 | 1 |
| > | In | 115 | | ug/L | | | 431891 | 426853 | 0 |
| [| Ag | 107 | 0.004 | ug/L | 0.002 | 60 | 122 | 175 | 19 |
| | Cd | 111 | -0.008 | ug/L | 0.003 | 43 | 202 | 173 | 6 |
| | Cd | 114 | 0.002 | ug/L | 0.001 | 63 | 19 | 33 | 27 |
| | Sb | 121 | -0.005 | ug/L | 0.003 | 69 | 241 | 177 | 24 |
| | Sb | 123 | -0.006 | ug/L | 0.001 | 26 | 175 | 118 | 12 |
| | Ba | 135 | 0.002 | ug/L | 0.003 | 155 | 20 | 25 | 36 |
| [| Ba | 137 | 0.001 | ug/L | 0.001 | 105 | 37 | 42 | 13 |
| > | Tb | 159 | | ug/L | | | 375312 | 376504 | 1 |
| [| Tl | 205 | 0.005 | ug/L | 0.002 | 36 | 97 | 231 | 21 |
| | Pb | 208 | 0.003 | ug/L | 0.002 | 58 | 380 | 478 | 12 |
| | Bi | 209 | | ug/L | | | 289784 | 289977 | 1 |
| | Th | 232 | 0.002 | ug/L | 0.002 | 110 | 440 | 513 | 15 |
| [| U | 238 | 0.003 | ug/L | 0.001 | 53 | 59 | 183 | 36 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 12:59:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 250002 | 0 |
| [Be | 9 | | ug/L | | | | 2 | 65 |
| C | 13 | | mg/L | | | | 5703 | 1 |
| Cl | 37 | | mg/L | | | | 3663680 | 0 |
| [> Sc | 45 | | ug/L | | | | 263116 | 0 |
| [V-1 | 51 | | ug/L | | | | 1770 | 5 |
| [V | 51 | | ug/L | | | | 6897 | 0 |
| [Cr | 52 | | ug/L | | | | 6826 | 1 |
| [Cr | 53 | | ug/L | | | | 2410 | 0 |
| [Mn | 55 | | ug/L | | | | 647 | 5 |
| [Co | 59 | | ug/L | | | | 33 | 19 |
| [> Ge | 72 | | ug/L | | | | 420611 | 0 |
| [Ni | 60 | | ug/L | | | | 69 | 5 |
| [Ni | 62 | | ug/L | | | | 97 | 7 |
| [Cu | 63 | | ug/L | | | | 326 | 4 |
| [Cu | 65 | | ug/L | | | | 109 | 18 |
| [Zn | 66 | | ug/L | | | | 338 | 5 |
| [Zn | 67 | | ug/L | | | | 220 | 6 |
| [Zn | 68 | | ug/L | | | | 8840 | 2 |
| [As-1 | 75 | | ug/L | | | | 534 | 5 |
| [As | 75 | | ug/L | | | | 11669 | 0 |
| [Se | 82 | | ug/L | | | | 0 | 15504 |
| [Se | 78 | | ug/L | | | | 11811 | 0 |
| [Mo | 98 | | ug/L | | | | 40 | 6 |
| [Y | 89 | | ug/L | | | | 295919 | 0 |
| [Kr | 83 | | ug/L | | | | 282 | 0 |
| [> In | 115 | | ug/L | | | | 426544 | 0 |
| [Ag | 107 | | ug/L | | | | 94 | 10 |
| [Cd | 111 | | ug/L | | | | 186 | 9 |
| [Cd | 114 | | ug/L | | | | 17 | 48 |
| [Sb | 121 | | ug/L | | | | 98 | 3 |
| [Sb | 123 | | ug/L | | | | 81 | 23 |
| [Ba | 135 | | ug/L | | | | 20 | 38 |
| [Ba | 137 | | ug/L | | | | 31 | 36 |
| [> Tb | 159 | | ug/L | | | | 373033 | 0 |
| [Tl | 205 | | ug/L | | | | 90 | 11 |
| [Pb | 208 | | ug/L | | | | 366 | 6 |
| [Bi | 209 | | ug/L | | | | 290180 | 0 |
| [Th | 232 | | ug/L | | | | 305 | 17 |
| [U | 238 | | ug/L | | | | 50 | 11 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Thursday, April 01, 2010 12:59:19

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0450 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0459 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0402 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0048 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0689 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0551 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0073 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0011 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 0.9999 | 0.0173 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0085 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| Se | 82 | 1.0000 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0165 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0319 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0077 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0184 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0299 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0229 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0066 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0111 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9992 | 0.0694 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0875 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9989 | 0.1117 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9998 | 0.1230 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:07:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 250882 | 1 |
| [Be | 9 | 48.423 | ug/L | 0.855 | 1 | 2 | 14727 | 0 |
| C | 13 | | mg/L | | | 5703 | 4952 | 2 |
| Cl | 37 | | mg/L | | | 3663680 | 3642631 | 0 |
| > Sc | 45 | | ug/L | | | 263116 | 260829 | 0 |
| [V-1 | 51 | 50.013 | ug/L | 0.323 | 0 | 1770 | 588973 | 0 |
| V | 51 | 50.087 | ug/L | 0.328 | 0 | 6897 | 606682 | 0 |
| Cr | 52 | 49.693 | ug/L | 0.309 | 0 | 6826 | 527307 | 0 |
| Cr | 53 | 49.936 | ug/L | 0.975 | 1 | 2410 | 65249 | 1 |
| Mn | 55 | 49.594 | ug/L | 0.376 | 0 | 647 | 891409 | 0 |
| Co | 59 | 49.663 | ug/L | 0.594 | 1 | 33 | 714032 | 1 |
| > Ge | 72 | | ug/L | | | 420611 | 420744 | 0 |
| Ni | 60 | 50.589 | ug/L | 0.575 | 1 | 69 | 154537 | 1 |
| Ni | 62 | 50.459 | ug/L | 0.530 | 1 | 97 | 23931 | 1 |
| Cu | 63 | 50.679 | ug/L | 0.428 | 0 | 326 | 370019 | 0 |
| Cu | 65 | 50.622 | ug/L | 0.455 | 0 | 109 | 182141 | 0 |
| Zn | 66 | 50.701 | ug/L | 0.753 | 1 | 338 | 120394 | 1 |
| Zn | 67 | 49.853 | ug/L | 0.490 | 0 | 220 | 20469 | 1 |
| Zn | 68 | 50.425 | ug/L | 0.864 | 1 | 8840 | 95923 | 1 |
| As-1 | 75 | 49.936 | ug/L | 0.280 | 0 | 534 | 115533 | 0 |
| As | 75 | 49.837 | ug/L | 0.166 | 0 | 11669 | 127269 | 0 |
| Se | 82 | 50.625 | ug/L | 0.503 | 0 | 0 | 10505 | 0 |
| Se | 78 | 50.164 | ug/L | 0.229 | 0 | 11811 | 39102 | 0 |
| Mo | 98 | 50.240 | ug/L | 0.412 | 0 | 40 | 347871 | 0 |
| Y | 89 | | ug/L | | | 295919 | 292127 | 1 |
| Kr | 83 | | ug/L | | | 282 | 286 | 5 |
| > In | 115 | | ug/L | | | 426544 | 419415 | 1 |
| Ag | 107 | 52.014 | ug/L | 0.455 | 0 | 94 | 696295 | 0 |
| Cd | 111 | 50.544 | ug/L | 0.634 | 1 | 186 | 162437 | 1 |
| Cd | 114 | 50.584 | ug/L | 0.405 | 0 | 17 | 390136 | 0 |
| Sb | 121 | 50.082 | ug/L | 0.222 | 0 | 98 | 628059 | 0 |
| Sb | 123 | 49.562 | ug/L | 0.216 | 0 | 81 | 476096 | 0 |
| Ba | 135 | 49.431 | ug/L | 0.733 | 1 | 20 | 136603 | 0 |
| Ba | 137 | 49.485 | ug/L | 0.248 | 0 | 31 | 230970 | 0 |
| > Tb | 159 | | ug/L | | | 373033 | 372868 | 0 |
| Tl | 205 | 47.327 | ug/L | 0.222 | 0 | 90 | 1225014 | 0 |
| Pb | 208 | 51.717 | ug/L | 0.307 | 0 | 366 | 1687041 | 0 |
| Bi | 209 | | ug/L | | | 290180 | 289535 | 0 |
| Th | 232 | 47.245 | ug/L | 0.321 | 0 | 305 | 1967901 | 0 |
| U | 238 | 52.193 | ug/L | 0.493 | 0 | 50 | 2394161 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:14:34

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 251580 | 0 |
| [Be | 9 | 0.015 | ug/L | 0.004 | 28 | 2 | 7 | 16 |
| C | 13 | | mg/L | | | 5703 | 5631 | 0 |
| Cl | 37 | | mg/L | | | 3663680 | 3638208 | 0 |
| [> Sc | 45 | | ug/L | | | 263116 | 262938 | 0 |
| V-1 | 51 | 0.013 | ug/L | 0.016 | 117 | 1770 | 1926 | 9 |
| V | 51 | -0.031 | ug/L | 0.007 | 24 | 6897 | 6517 | 1 |
| Cr | 52 | 0.002 | ug/L | 0.010 | 511 | 6826 | 6842 | 2 |
| Cr | 53 | -0.132 | ug/L | 0.025 | 18 | 2410 | 2241 | 1 |
| Mn | 55 | 0.003 | ug/L | 0.001 | 35 | 647 | 697 | 3 |
| Co | 59 | 0.002 | ug/L | 0.000 | 16 | 33 | 66 | 8 |
| [> Ge | 72 | | ug/L | | | 420611 | 418007 | 0 |
| Ni | 60 | -0.002 | ug/L | 0.003 | 143 | 69 | 63 | 12 |
| Ni | 62 | -0.014 | ug/L | 0.010 | 71 | 97 | 90 | 5 |
| Cu | 63 | 0.003 | ug/L | 0.001 | 26 | 326 | 343 | 1 |
| Cu | 65 | 0.010 | ug/L | 0.003 | 35 | 109 | 142 | 8 |
| Zn | 66 | 0.004 | ug/L | 0.010 | 233 | 338 | 345 | 6 |
| Zn | 67 | -0.021 | ug/L | 0.031 | 143 | 220 | 210 | 6 |
| Zn | 68 | 0.022 | ug/L | 0.034 | 154 | 8840 | 8823 | 0 |
| As-1 | 75 | 0.006 | ug/L | 0.019 | 325 | 534 | 544 | 8 |
| As | 75 | 0.005 | ug/L | 0.038 | 795 | 11669 | 11607 | 0 |
| Se | 82 | 0.010 | ug/L | 0.018 | 176 | 0 | 2 | 181 |
| Se | 78 | -0.012 | ug/L | 0.112 | 955 | 11811 | 11732 | 0 |
| [Mo | 98 | 0.010 | ug/L | 0.005 | 53 | 40 | 107 | 33 |
| Y | 89 | | ug/L | | | 295919 | 296774 | 1 |
| Kr | 83 | | ug/L | | | 282 | 277 | 4 |
| [> In | 115 | | ug/L | | | 426544 | 423182 | 1 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 22 | 94 | 168 | 10 |
| Cd | 111 | -0.003 | ug/L | 0.004 | 138 | 186 | 175 | 8 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 33 | 17 | 29 | 12 |
| Sb | 121 | 0.025 | ug/L | 0.004 | 16 | 98 | 408 | 11 |
| Sb | 123 | 0.026 | ug/L | 0.006 | 24 | 81 | 332 | 17 |
| Ba | 135 | 0.000 | ug/L | 0.001 | 332 | 20 | 20 | 15 |
| [Ba | 137 | 0.003 | ug/L | 0.002 | 81 | 31 | 42 | 22 |
| [> Tb | 159 | | ug/L | | | 373033 | 373229 | 0 |
| Tl | 205 | 0.004 | ug/L | 0.002 | 47 | 90 | 193 | 25 |
| Pb | 208 | 0.003 | ug/L | 0.001 | 27 | 366 | 480 | 6 |
| Bi | 209 | | ug/L | | | 290180 | 289237 | 1 |
| Th | 232 | 0.009 | ug/L | 0.002 | 23 | 305 | 664 | 12 |
| [U | 238 | 0.003 | ug/L | 0.001 | 52 | 50 | 172 | 37 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:22:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 250002 | 261944 | 1 |
| [| Be | 9 | 0.194 | ug/L | 0.042 | 21 | 2 | 64 | 18 |
| | C | 13 | | mg/L | | | 5703 | 5260 | 0 |
| | Cl | 37 | | mg/L | | | 3663680 | 3616348 | 0 |
| > | Sc | 45 | | ug/L | | | 263116 | 267656 | 2 |
| [| V-1 | 51 | 0.202 | ug/L | 0.036 | 17 | 1770 | 4223 | 8 |
| | V | 51 | 0.143 | ug/L | 0.029 | 20 | 6897 | 8773 | 1 |
| | Cr | 52 | 0.471 | ug/L | 0.032 | 6 | 6826 | 11999 | 0 |
| | Cr | 53 | 0.278 | ug/L | 0.036 | 12 | 2410 | 2811 | 2 |
| | Mn | 55 | 0.486 | ug/L | 0.017 | 3 | 647 | 9618 | 1 |
| [| Co | 59 | 0.204 | ug/L | 0.005 | 2 | 33 | 3042 | 1 |
| > | Ge | 72 | | ug/L | | | 420611 | 425924 | 0 |
| [| Ni | 60 | 0.518 | ug/L | 0.014 | 2 | 69 | 1671 | 1 |
| | Ni | 62 | 0.508 | ug/L | 0.049 | 9 | 97 | 341 | 6 |
| | Cu | 63 | 0.532 | ug/L | 0.019 | 3 | 326 | 4259 | 2 |
| | Cu | 65 | 0.521 | ug/L | 0.002 | 0 | 109 | 2006 | 0 |
| | Zn | 66 | 4.145 | ug/L | 0.130 | 3 | 338 | 10276 | 2 |
| | Zn | 67 | 3.579 | ug/L | 0.089 | 2 | 220 | 1694 | 2 |
| | Zn | 68 | 4.000 | ug/L | 0.036 | 0 | 8840 | 15943 | 0 |
| | As-1 | 75 | 0.193 | ug/L | 0.044 | 22 | 534 | 991 | 9 |
| | As | 75 | 0.133 | ug/L | 0.054 | 40 | 11669 | 12127 | 0 |
| | Se | 82 | 0.551 | ug/L | 0.137 | 24 | 0 | 115 | 24 |
| | Se | 78 | 0.236 | ug/L | 0.201 | 84 | 11811 | 12090 | 0 |
| [| Mo | 98 | 0.204 | ug/L | 0.007 | 3 | 40 | 1468 | 3 |
| | Y | 89 | | ug/L | | | 295919 | 301834 | 0 |
| | Kr | 83 | | ug/L | | | 282 | 276 | 1 |
| > | In | 115 | | ug/L | | | 426544 | 435686 | 0 |
| [| Ag | 107 | 0.200 | ug/L | 0.001 | 0 | 94 | 2876 | 0 |
| | Cd | 111 | 0.198 | ug/L | 0.009 | 4 | 186 | 850 | 2 |
| | Cd | 114 | 0.204 | ug/L | 0.011 | 5 | 17 | 1655 | 5 |
| | Sb | 121 | 0.201 | ug/L | 0.004 | 1 | 98 | 2719 | 2 |
| | Sb | 123 | 0.200 | ug/L | 0.004 | 2 | 81 | 2077 | 1 |
| | Ba | 135 | 0.498 | ug/L | 0.018 | 3 | 20 | 1448 | 3 |
| [| Ba | 137 | 0.493 | ug/L | 0.021 | 4 | 31 | 2421 | 4 |
| > | Tb | 159 | | ug/L | | | 373033 | 383606 | 0 |
| [| Tl | 205 | 0.194 | ug/L | 0.004 | 2 | 90 | 5259 | 1 |
| | Pb | 208 | 1.030 | ug/L | 0.007 | 0 | 366 | 34922 | 1 |
| | Bi | 209 | | ug/L | | | 290180 | 299549 | 0 |
| | Th | 232 | 0.187 | ug/L | 0.008 | 4 | 305 | 8329 | 3 |
| [| U | 238 | 0.186 | ug/L | 0.001 | 0 | 50 | 8840 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:29:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 290487 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.007 | 156 | 2 | 5 | 50 |
| C | 13 | | mg/L | | | 5703 | 17762 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 4968774 | 3 |
| > Sc | 45 | | ug/L | | | 263116 | 229212 | 3 |
| V-1 | 51 | -0.016 | ug/L | 0.043 | 270 | 1770 | 1385 | 34 |
| V | 51 | 0.731 | ug/L | 0.010 | 1 | 6897 | 13703 | 3 |
| Cr | 52 | 0.531 | ug/L | 0.009 | 1 | 6826 | 10831 | 3 |
| Cr | 53 | 2.771 | ug/L | 0.141 | 5 | 2410 | 5163 | 2 |
| Mn | 55 | 0.054 | ug/L | 0.005 | 9 | 647 | 1414 | 2 |
| Co | 59 | 0.032 | ug/L | 0.002 | 7 | 33 | 432 | 8 |
| > Ge | 72 | | ug/L | | | 420611 | 366491 | 2 |
| Ni | 60 | 0.431 | ug/L | 0.008 | 1 | 69 | 1207 | 4 |
| Ni | 62 | 3.082 | ug/L | 0.141 | 4 | 97 | 1352 | 4 |
| Cu | 63 | 0.400 | ug/L | 0.012 | 3 | 326 | 2826 | 3 |
| Cu | 65 | 0.494 | ug/L | 0.027 | 5 | 109 | 1644 | 7 |
| Zn | 66 | 1.108 | ug/L | 0.031 | 2 | 338 | 2580 | 5 |
| Zn | 67 | 1.513 | ug/L | 0.143 | 9 | 220 | 728 | 9 |
| Zn | 68 | 0.556 | ug/L | 0.054 | 9 | 8840 | 8537 | 2 |
| As-1 | 75 | 0.033 | ug/L | 0.004 | 13 | 534 | 531 | 2 |
| As | 75 | 0.047 | ug/L | 0.054 | 115 | 11669 | 10261 | 2 |
| Se | 82 | 0.002 | ug/L | 0.088 | 4439 | 0 | 0 | 40686 |
| Se | 78 | 0.194 | ug/L | 0.244 | 125 | 11811 | 10382 | 2 |
| Mo | 98 | 469.943 | ug/L | 1.811 | 0 | 40 | 2833878 | 2 |
| Y | 89 | | ug/L | | | 295919 | 272513 | 2 |
| Kr | 83 | | ug/L | | | 282 | 270 | 4 |
| > In | 115 | | ug/L | | | 426544 | 362806 | 3 |
| Ag | 107 | 0.030 | ug/L | 0.001 | 2 | 94 | 432 | 1 |
| Cd | 111 | 0.050 | ug/L | 0.011 | 22 | 186 | 298 | 11 |
| Cd | 114 | 0.635 | ug/L | 0.015 | 2 | 17 | 4253 | 3 |
| Sb | 121 | 0.048 | ug/L | 0.003 | 6 | 98 | 606 | 9 |
| Sb | 123 | 0.047 | ug/L | 0.001 | 3 | 81 | 460 | 4 |
| Ba | 135 | 0.038 | ug/L | 0.009 | 23 | 20 | 109 | 22 |
| Ba | 137 | 0.031 | ug/L | 0.005 | 14 | 31 | 152 | 9 |
| > Tb | 159 | | ug/L | | | 373033 | 340487 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 63 | 90 | 111 | 17 |
| Pb | 208 | 0.047 | ug/L | 0.001 | 1 | 366 | 1728 | 2 |
| Bi | 209 | | ug/L | | | 290180 | 270670 | 1 |
| Th | 232 | 0.022 | ug/L | 0.001 | 3 | 305 | 1110 | 1 |
| U | 238 | 0.000 | ug/L | 0.000 | 1512 | 50 | 46 | 20 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:36:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|--------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 291477 | 0 |
| [Be | 9 | 0.006 | ug/L | 0.004 | 70 | 2 | 5 | 26 |
| C | 13 | | mg/L | | | 5703 | 15661 | 0 |
| Cl | 37 | | mg/L | | | 3663680 | 4463848 | 2 |
| [> Sc | 45 | | ug/L | | | 263116 | 209042 | 3 |
| V-1 | 51 | -0.571 | ug/L | 0.096 | 16 | 1770 | -3957 | 21 |
| V | 51 | 0.717 | ug/L | 0.031 | 4 | 6897 | 12351 | 1 |
| Cr | 52 | 21.304 | ug/L | 0.329 | 1 | 6826 | 184222 | 1 |
| Cr | 53 | 23.916 | ug/L | 0.509 | 2 | 2410 | 26032 | 1 |
| Mn | 55 | 20.582 | ug/L | 0.221 | 1 | 647 | 296753 | 2 |
| [Co | 59 | 20.703 | ug/L | 0.187 | 0 | 33 | 238573 | 3 |
| [> Ge | 72 | | ug/L | | | 420611 | 338242 | 1 |
| Ni | 60 | 21.032 | ug/L | 0.057 | 0 | 69 | 51680 | 1 |
| Ni | 62 | 23.788 | ug/L | 0.280 | 1 | 97 | 9110 | 2 |
| Cu | 63 | 20.912 | ug/L | 0.312 | 1 | 326 | 122893 | 1 |
| Cu | 65 | 20.551 | ug/L | 0.372 | 1 | 109 | 59502 | 3 |
| Zn | 66 | 21.135 | ug/L | 0.604 | 2 | 338 | 40493 | 1 |
| Zn | 67 | 19.203 | ug/L | 0.475 | 2 | 220 | 6446 | 1 |
| Zn | 68 | 19.447 | ug/L | 0.443 | 2 | 8840 | 34100 | 0 |
| As-1 | 75 | 20.273 | ug/L | 0.181 | 0 | 534 | 37959 | 1 |
| As | 75 | 20.117 | ug/L | 0.187 | 0 | 11669 | 46895 | 1 |
| Se | 82 | -0.009 | ug/L | 0.072 | 822 | 0 | -1 | 760 |
| Se | 78 | 0.087 | ug/L | 0.286 | 330 | 11811 | 9537 | 2 |
| [Mo | 98 | 480.715 | ug/L ✓ | 8.209 | 1 | 40 | 2675096 | 0 |
| Y | 89 | | ug/L | | | 295919 | 256403 | 1 |
| Kr | 83 | | ug/L | | | 282 | 251 | 0 |
| [> In | 115 | | ug/L | | | 426544 | 341029 | 2 |
| Ag | 107 | 18.955 | ug/L | 0.180 | 0 | 94 | 206352 | 1 |
| Cd | 111 | 20.592 | ug/L | 0.252 | 1 | 186 | 53888 | 0 |
| Cd | 114 | 20.727 | ug/L | 0.170 | 0 | 17 | 129986 | 1 |
| Sb | 121 | 0.044 | ug/L | 0.003 | 6 | 98 | 529 | 4 |
| Sb | 123 | 0.044 | ug/L | 0.001 | 2 | 81 | 406 | 3 |
| Ba | 135 | 0.057 | ug/L | 0.002 | 4 | 20 | 144 | 3 |
| [Ba | 137 | 0.051 | ug/L | 0.001 | 2 | 31 | 219 | 2 |
| [> Tb | 159 | | ug/L | | | 373033 | 330662 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.001 | 19 | 90 | 185 | 11 |
| Pb | 208 | 0.050 | ug/L | 0.004 | 9 | 366 | 1757 | 7 |
| Bi | 209 | | ug/L | | | 290180 | 265313 | 1 |
| Th | 232 | 0.014 | ug/L | 0.002 | 15 | 305 | 805 | 9 |
| [U | 238 | -0.000 | ug/L | 0.000 | 58 | 50 | 31 | 25 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LC

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:44:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 250002 | 299749 | 0 |
| [| Be | 9 | 0.081 | ug/L | 0.013 | 16 | 2 | 32 | 14 |
| | C | 13 | | mg/L | | | 5703 | 4752 | 1 |
| | Cl | 37 | | mg/L | | | 3663680 | 2893765 | 0 |
| [> | Sc | 45 | | ug/L | | | 263116 | 222254 | 1 |
| | V-1 | 51 | 0.094 | ug/L | 0.025 | 26 | 1770 | 2433 | 10 |
| | V | 51 | 0.117 | ug/L | 0.014 | 11 | 6897 | 7015 | 1 |
| | Cr | 52 | 0.231 | ug/L | 0.017 | 7 | 6826 | 7825 | 2 |
| | Cr | 53 | 0.292 | ug/L | 0.082 | 28 | 2410 | 2349 | 3 |
| | Mn | 55 | 0.246 | ug/L | 0.002 | 0 | 647 | 4319 | 1 |
| | Co | 59 | 0.109 | ug/L | 0.004 | 3 | 33 | 1358 | 2 |
| [> | Ge | 72 | | ug/L | | | 420611 | 354115 | 1 |
| | Ni | 60 | 0.264 | ug/L | 0.010 | 3 | 69 | 736 | 2 |
| | Ni | 62 | 0.218 | ug/L | 0.043 | 19 | 97 | 168 | 8 |
| | Cu | 63 | 0.263 | ug/L | 0.002 | 0 | 326 | 1891 | 1 |
| | Cu | 65 | 0.279 | ug/L | 0.016 | 5 | 109 | 936 | 5 |
| | Zn | 66 | 2.369 | ug/L | 0.031 | 1 | 338 | 5005 | 0 |
| | Zn | 67 | 2.107 | ug/L | 0.111 | 5 | 220 | 906 | 5 |
| | Zn | 68 | 2.113 | ug/L | 0.190 | 9 | 8840 | 10511 | 1 |
| | As-1 | 75 | 0.113 | ug/L | 0.027 | 23 | 534 | 669 | 9 |
| | As | 75 | 0.048 | ug/L | 0.067 | 138 | 11669 | 9917 | 0 |
| | Se | 82 | 0.251 | ug/L | 0.104 | 41 | 0 | 43 | 42 |
| | Se | 78 | 0.079 | ug/L | 0.355 | 451 | 11811 | 9978 | 0 |
| [| Mo | 98 | 0.190 | ug/L | 0.024 | 12 | 40 | 1141 | 10 |
| | Y | 89 | | ug/L | | | 295919 | 271382 | 1 |
| | Kr | 83 | | ug/L | | | 282 | 257 | 3 |
| [> | In | 115 | | ug/L | | | 426544 | 364835 | 0 |
| | Ag | 107 | 0.103 | ug/L | 0.001 | 0 | 94 | 1282 | 1 |
| | Cd | 111 | 0.097 | ug/L | 0.006 | 5 | 186 | 430 | 3 |
| | Cd | 114 | 0.102 | ug/L | 0.001 | 1 | 17 | 696 | 0 |
| | Sb | 121 | 0.096 | ug/L | 0.004 | 3 | 98 | 1133 | 3 |
| | Sb | 123 | 0.097 | ug/L | 0.002 | 2 | 81 | 876 | 2 |
| | Ba | 135 | 0.249 | ug/L | 0.008 | 3 | 20 | 614 | 3 |
| [| Ba | 137 | 0.241 | ug/L | 0.013 | 5 | 31 | 1005 | 5 |
| [> | Tb | 159 | | ug/L | | | 373033 | 342092 | 0 |
| | Tl | 205 | 0.107 | ug/L | 0.002 | 1 | 90 | 2628 | 1 |
| | Pb | 208 | 0.573 | ug/L | 0.001 | 0 | 366 | 17494 | 0 |
| | Bi | 209 | | ug/L | | | 290180 | 284260 | 0 |
| | Th | 232 | 0.099 | ug/L | 0.003 | 2 | 305 | 4047 | 2 |
| [| U | 238 | 0.102 | ug/L | 0.002 | 2 | 50 | 4331 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 13:52:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 292591 | 1 |
| [Be | 9 | 180.002 | ug/L | 3.501 | 1 | 2 | 63842 | 1 |
| C | 13 | | mg/L | | | 5703 | 5005 | 4 |
| [Cl | 37 | | mg/L | | | 3663680 | 2917064 | 1 |
| > Sc | 45 | | ug/L | | | 263116 | 220145 | 2 |
| V-1 | 51 | 223.546 | ug/L | 6.117 | 2 | 1770 | 2215923 | 1 |
| V | 51 | 223.781 | ug/L | 5.103 | 2 | 6897 | 2266963 | 0 |
| [Cr | 52 | 202.391 | ug/L | 5.987 | 2 | 6826 | 1794256 | 0 |
| Cr | 53 | 204.369 | ug/L | 5.541 | 2 | 2410 | 219073 | 1 |
| [Mn | 55 | 218.599 | ug/L | 4.946 | 2 | 647 | 3313447 | 1 |
| Co | 59 | 217.861 | ug/L | 5.397 | 2 | 33 | 2642638 | 0 |
| > Ge | 72 | | ug/L | | | 420611 | 353830 | 1 |
| [Ni | 60 | 200.951 | ug/L | 1.815 | 0 | 69 | 516024 | 0 |
| Ni | 62 | 198.684 | ug/L | 0.897 | 0 | 97 | 79005 | 1 |
| [Cu | 63 | 199.717 | ug/L | 2.684 | 1 | 326 | 1225530 | 2 |
| Cu | 65 | 194.620 | ug/L | 2.018 | 1 | 109 | 588667 | 2 |
| [Zn | 66 | 196.790 | ug/L | 0.362 | 0 | 338 | 392158 | 1 |
| Zn | 67 | 190.368 | ug/L | 1.265 | 0 | 220 | 65206 | 0 |
| Zn | 68 | 191.985 | ug/L | 2.735 | 1 | 8840 | 286277 | 2 |
| [As-1 | 75 | 198.730 | ug/L | 1.672 | 0 | 534 | 385303 | 0 |
| As | 75 | 197.061 | ug/L | 1.820 | 0 | 11669 | 394184 | 0 |
| [Se | 82 | 206.093 | ug/L | 1.479 | 0 | 0 | 35965 | 0 |
| Se | 78 | 198.793 | ug/L | 2.419 | 1 | 11811 | 100866 | 0 |
| [Mo | 98 | 216.993 | ug/L | 2.220 | 1 | 40 | 1263333 | 0 |
| Y | 89 | | ug/L | | | 295919 | 268351 | 0 |
| [Kr | 83 | | ug/L | | | 282 | 265 | 2 |
| > In | 115 | | ug/L | | | 426544 | 356367 | 1 |
| [Ag | 107 | 230.289 | ug/L | 1.154 | 0 | 94 | 2619152 | 0 |
| Cd | 111 | 204.509 | ug/L | 3.246 | 1 | 186 | 557930 | 0 |
| [Cd | 114 | 200.447 | ug/L | 1.134 | 0 | 17 | 1313557 | 0 |
| Sb | 121 | 217.329 | ug/L | 1.585 | 0 | 98 | 2315374 | 0 |
| [Sb | 123 | 195.203 | ug/L | 3.155 | 1 | 81 | 1592924 | 0 |
| Ba | 135 | 192.101 | ug/L | 1.751 | 0 | 20 | 451046 | 0 |
| [Ba | 137 | 192.614 | ug/L | 2.092 | 1 | 31 | 763764 | 0 |
| > Tb | 159 | | ug/L | | | 373033 | 339720 | 1 |
| [Tl | 205 | 219.988 | ug/L | 2.843 | 1 | 90 | 5186959 | 0 |
| Pb | 208 | 226.367 | ug/L | 2.536 | 1 | 366 | 6725847 | 0 |
| [Bi | 209 | | ug/L | | | 290180 | 268371 | 0 |
| Th | 232 | 226.176 | ug/L | 3.188 | 1 | 305 | 8581089 | 0 |
| [U | 238 | 222.724 | ug/L | 4.626 | 2 | 50 | 9306252 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:00:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 282190 | 0 |
| [Be | 9 | 275.275 | ug/L | 2.642 | 0 | 2 | 94170 | 0 |
| C | 13 | | mg/L | | | 5703 | 4909 | 2 |
| Cl | 37 | | mg/L | | | 3663680 | 2995451 | 1 |
| > Sc | 45 | | ug/L | | | 263116 | 219552 | 1 |
| V-1 | 51 | 347.546 | ug/L | 1.324 | 0 | 1770 | 3436247 | 0 |
| V | 51 | 338.028 | ug/L | 3.231 | 0 | 6897 | 3413155 | 0 |
| Cr | 52 | 336.196 | ug/L | 1.885 | 0 | 6826 | 2969970 | 0 |
| Cr | 53 | 307.917 | ug/L | 7.110 | 2 | 2410 | 328222 | 1 |
| Mn | 55 | 328.914 | ug/L | 2.373 | 0 | 647 | 4973316 | 1 |
| [Co | 59 | 326.722 | ug/L | 4.600 | 1 | 33 | 3953897 | 1 |
| > Ge | 72 | | ug/L | | | 420611 | 355635 | 0 |
| Ni | 60 | 301.953 | ug/L | 3.689 | 1 | 69 | 779307 | 0 |
| Ni | 62 | 295.136 | ug/L | 3.820 | 1 | 97 | 117924 | 2 |
| Cu | 63 | 295.724 | ug/L | 3.549 | 1 | 326 | 1823601 | 1 |
| Cu | 65 | 289.640 | ug/L | 3.630 | 1 | 109 | 880467 | 1 |
| Zn | 66 | 289.515 | ug/L | 4.284 | 1 | 338 | 579740 | 1 |
| Zn | 67 | 284.970 | ug/L | 2.935 | 1 | 220 | 98022 | 1 |
| Zn | 68 | 286.417 | ug/L | 2.252 | 0 | 8840 | 425574 | 1 |
| As-1 | 75 | 297.929 | ug/L | 1.148 | 0 | 534 | 580398 | 1 |
| As | 75 | 296.455 | ug/L | 0.953 | 0 | 11669 | 591099 | 1 |
| Se | 82 | 302.457 | ug/L | 1.501 | 0 | 0 | 53052 | 0 |
| Se | 78 | 296.030 | ug/L | 2.299 | 0 | 11811 | 146093 | 0 |
| [Mo | 98 | 322.999 | ug/L | 1.822 | 0 | 40 | 1890158 | 0 |
| Y | 89 | | ug/L | | | 295919 | 263047 | 0 |
| Kr | 83 | | ug/L | | | 282 | 272 | 1 |
| > In | 115 | | ug/L | | | 426544 | 359021 | 0 |
| Ag | 107 | 340.867 | ug/L | 2.602 | 0 | 94 | 3905618 | 0 |
| Cd | 111 | 305.439 | ug/L | 2.711 | 0 | 186 | 839448 | 0 |
| Cd | 114 | 312.714 | ug/L | 20.276 | 6 | 17 | 2064842 | 6 |
| Sb | 121 | 328.900 | ug/L | 6.109 | 1 | 98 | 3529834 | 0 |
| Sb | 123 | 325.646 | ug/L | 4.384 | 1 | 81 | 2677202 | 0 |
| Ba | 135 | 290.031 | ug/L | 3.817 | 1 | 20 | 686023 | 0 |
| [Ba | 137 | 290.207 | ug/L | 3.800 | 1 | 31 | 1159302 | 0 |
| > Tb | 159 | | ug/L | | | 373033 | 335375 | 0 |
| Tl | 205 | 329.254 | ug/L | 2.862 | 0 | 90 | 7664938 | 1 |
| Pb | 208 | 353.898 | ug/L | 6.736 | 1 | 366 | 10381368 | 1 |
| Bi | 209 | | ug/L | | | 290180 | 254008 | 0 |
| Th | 232 | 339.963 | ug/L | 4.265 | 1 | 305 | 12734402 | 0 |
| [U | 238 | 337.489 | ug/L | 5.232 | 1 | 50 | 13923141 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:07:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 302266 | 1 |
| [Be | 9 | 45.072 | ug/L | 0.577 | 1 | 2 | 16518 | 1 |
| C | 13 | | mg/L | | | 5703 | 4596 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 3026265 | 0 |
| [> Sc | 45 | | ug/L | | | 263116 | 225015 | 1 |
| [V-1 | 51 | 50.751 | ug/L | 0.617 | 1 | 1770 | 515537 | 0 |
| [V | 51 | 50.979 | ug/L | 0.462 | 0 | 6897 | 532570 | 0 |
| [Cr | 52 | 50.701 | ug/L | 0.750 | 1 | 6826 | 463967 | 0 |
| [Cr | 53 | 51.397 | ug/L | 0.472 | 0 | 2410 | 57875 | 1 |
| [Mn | 55 | 50.720 | ug/L | 0.612 | 1 | 647 | 786454 | 1 |
| [Co | 59 | 50.661 | ug/L | 0.121 | 0 | 33 | 628361 | 0 |
| [> Ge | 72 | | ug/L | | | 420611 | 361291 | 0 |
| [Ni | 60 | 51.771 | ug/L | 1.216 | 2 | 69 | 135782 | 1 |
| [Ni | 62 | 50.464 | ug/L | 1.213 | 2 | 97 | 20549 | 1 |
| [Cu | 63 | 51.297 | ug/L | 0.587 | 1 | 326 | 321585 | 0 |
| [Cu | 65 | 50.562 | ug/L | 1.134 | 2 | 109 | 156199 | 1 |
| [Zn | 66 | 51.102 | ug/L | 0.207 | 0 | 338 | 104197 | 0 |
| [Zn | 67 | 49.706 | ug/L | 1.339 | 2 | 220 | 17526 | 3 |
| [Zn | 68 | 50.349 | ug/L | 0.875 | 1 | 8840 | 82248 | 0 |
| [As-1 | 75 | 49.853 | ug/L | 0.624 | 1 | 534 | 99037 | 0 |
| [As | 75 | 49.460 | ug/L | 0.559 | 1 | 11669 | 108530 | 0 |
| [Se | 82 | 52.436 | ug/L | 0.733 | 1 | 0 | 9343 | 0 |
| [Se | 78 | 50.764 | ug/L | 0.826 | 1 | 11811 | 33855 | 0 |
| [Mo | 98 | 53.451 | ug/L | 0.822 | 1 | 40 | 317778 | 0 |
| [Y | 89 | | ug/L | | | 295919 | 270549 | 0 |
| [Kr | 83 | | ug/L | | | 282 | 263 | 2 |
| [> In | 115 | | ug/L | | | 426544 | 369606 | 1 |
| [Ag | 107 | 52.461 | ug/L | 0.581 | 1 | 94 | 618863 | 0 |
| [Cd | 111 | 50.967 | ug/L | 0.175 | 0 | 186 | 144342 | 0 |
| [Cd | 114 | 50.494 | ug/L | 0.601 | 1 | 17 | 343180 | 0 |
| [Sb | 121 | 48.868 | ug/L | 0.414 | 0 | 98 | 540021 | 0 |
| [Sb | 123 | 48.071 | ug/L | 0.863 | 1 | 81 | 406892 | 0 |
| [Ba | 135 | 47.377 | ug/L | 0.508 | 1 | 20 | 115381 | 0 |
| [Ba | 137 | 47.559 | ug/L | 0.136 | 0 | 31 | 195621 | 1 |
| [> Tb | 159 | | ug/L | | | 373033 | 346698 | 0 |
| [Tl | 205 | 49.543 | ug/L | 0.355 | 0 | 90 | 1192327 | 0 |
| [Pb | 208 | 54.457 | ug/L | 0.275 | 0 | 366 | 1651705 | 0 |
| [Bi | 209 | | ug/L | | | 290180 | 282510 | 1 |
| [Th | 232 | 50.392 | ug/L | 0.360 | 0 | 305 | 1951628 | 0 |
| [U | 238 | 56.245 | ug/L | 0.368 | 0 | 50 | 2398869 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:15:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 302045 | 1 |
| [Be | 9 | 0.007 | ug/L | 0.009 | 121 | 2 | 6 | 52 |
| C | 13 | | mg/L | | | 5703 | 4982 | 2 |
| Cl | 37 | | mg/L | | | 3663680 | 3008272 | 0 |
| [> Sc | 45 | | ug/L | | | 263116 | 222090 | 1 |
| [V-1 | 51 | 0.001 | ug/L | 0.008 | 1172 | 1770 | 1501 | 5 |
| [V | 51 | -0.058 | ug/L | 0.006 | 9 | 6897 | 5234 | 0 |
| [Cr | 52 | -0.008 | ug/L | 0.015 | 181 | 6826 | 5689 | 1 |
| [Cr | 53 | -0.185 | ug/L | 0.054 | 29 | 2410 | 1836 | 2 |
| [Mn | 55 | 0.017 | ug/L | 0.003 | 16 | 647 | 800 | 6 |
| [Co | 59 | 0.003 | ug/L | 0.001 | 39 | 33 | 65 | 22 |
| [> Ge | 72 | | ug/L | | | 420611 | 353574 | 1 |
| [Ni | 60 | 0.003 | ug/L | 0.001 | 27 | 69 | 66 | 1 |
| [Ni | 62 | -0.036 | ug/L | 0.040 | 113 | 97 | 67 | 24 |
| [Cu | 63 | 0.009 | ug/L | 0.007 | 79 | 326 | 327 | 12 |
| [Cu | 65 | 0.014 | ug/L | 0.004 | 31 | 109 | 135 | 9 |
| [Zn | 66 | -0.008 | ug/L | 0.006 | 75 | 338 | 268 | 4 |
| [Zn | 67 | -0.024 | ug/L | 0.026 | 108 | 220 | 177 | 3 |
| [Zn | 68 | 0.004 | ug/L | 0.106 | 2356 | 8840 | 7436 | 0 |
| [As-1 | 75 | 0.020 | ug/L | 0.022 | 113 | 534 | 487 | 7 |
| [As | 75 | 0.058 | ug/L | 0.100 | 171 | 11669 | 9920 | 0 |
| [Se | 82 | -0.072 | ug/L | 0.101 | 140 | 0 | -12 | 138 |
| [Se | 78 | 0.240 | ug/L | 0.426 | 177 | 11811 | 10036 | 0 |
| [Mo | 98 | 0.030 | ug/L | 0.007 | 22 | 40 | 208 | 17 |
| [Y | 89 | | ug/L | | | 295919 | 271319 | 0 |
| [Kr | 83 | | ug/L | | | 282 | 263 | 0 |
| [> In | 115 | | ug/L | | | 426544 | 366224 | 1 |
| [Ag | 107 | 0.020 | ug/L | 0.007 | 33 | 94 | 312 | 25 |
| [Cd | 111 | 0.003 | ug/L | 0.005 | 169 | 186 | 167 | 8 |
| [Cd | 114 | 0.004 | ug/L | 0.002 | 66 | 17 | 39 | 41 |
| [Sb | 121 | 0.069 | ug/L | 0.008 | 11 | 98 | 842 | 11 |
| [Sb | 123 | 0.070 | ug/L | 0.009 | 13 | 81 | 656 | 12 |
| [Ba | 135 | 0.008 | ug/L | 0.006 | 77 | 20 | 36 | 41 |
| [Ba | 137 | 0.006 | ug/L | 0.003 | 41 | 31 | 52 | 21 |
| [> Tb | 159 | | ug/L | | | 373033 | 344835 | 0 |
| [Tl | 205 | 0.008 | ug/L | 0.002 | 26 | 90 | 274 | 18 |
| [Pb | 208 | 0.008 | ug/L | 0.003 | 43 | 366 | 566 | 18 |
| [Bi | 209 | | ug/L | | | 290180 | 287428 | 0 |
| [Th | 232 | 0.024 | ug/L | 0.007 | 27 | 305 | 1216 | 21 |
| [U | 238 | 0.005 | ug/L | 0.002 | 30 | 50 | 269 | 25 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **QK39 B-L REN**

Sample Dil Factor: **25**

Comments:

Sample Date/Time: **Thursday, April 01, 2010 14:22:43**

Number of Replicates: **3**

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

CC

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 311726 | 0 |
| [Be | 9 | 0.006 | ug/L | 0.004 | 66 | 2 | 5 | 24 |
| C | 13 | | mg/L | | | 5703 | 4131 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 2871607 | 1 |
| [> Sc | 45 | | ug/L | | | 263116 | 224392 | 1 |
| V-1 | 51 | 0.734 | ug/L | 0.031 | 4 | 1770 | 8924 | 3 |
| V | 51 | 0.634 | ug/L | 0.020 | 3 | 6897 | 12415 | 1 |
| Cr | 52 | 0.053 | ug/L | 0.003 | 6 | 6826 | 6297 | 0 |
| Cr | 53 | -0.210 | ug/L | 0.049 | 23 | 2410 | 1828 | 2 |
| Mn | 55 | 43.246 | ug/L | 0.653 | 1 | 647 | 668812 | 2 |
| Co | 59 | 0.171 | ug/L | 0.006 | 3 | 33 | 2145 | 2 |
| [> Ge | 72 | | ug/L | | | 420611 | 357858 | 0 |
| Ni | 60 | 0.262 | ug/L | 0.024 | 8 | 69 | 740 | 8 |
| Ni | 62 | 0.325 | ug/L | 0.043 | 13 | 97 | 213 | 7 |
| Cu | 63 | 0.247 | ug/L | 0.010 | 3 | 326 | 1808 | 3 |
| Cu | 65 | 0.212 | ug/L | 0.001 | 0 | 109 | 741 | 0 |
| Zn | 66 | 0.798 | ug/L | 0.013 | 1 | 338 | 1895 | 1 |
| Zn | 67 | 0.689 | ug/L | 0.033 | 4 | 220 | 425 | 2 |
| Zn | 68 | 0.560 | ug/L | 0.081 | 14 | 8840 | 8342 | 1 |
| As-1 | 75 | 0.108 | ug/L | 0.025 | 22 | 534 | 666 | 7 |
| As | 75 | -0.042 | ug/L | 0.026 | 61 | 11669 | 9844 | 0 |
| Se | 82 | -0.004 | ug/L | 0.044 | 1060 | 0 | 0 | 993 |
| Se | 78 | -0.613 | ug/L | 0.148 | 24 | 11811 | 9765 | 0 |
| [Mo | 98 | 0.436 | ug/L | 0.005 | 1 | 40 | 2602 | 1 |
| Y | 89 | | ug/L | | | 295919 | 272271 | 0 |
| Kr | 83 | | ug/L | | | 282 | 245 | 2 |
| [> In | 115 | | ug/L | | | 426544 | 364315 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.003 | 43 | 94 | 159 | 21 |
| Cd | 111 | 0.001 | ug/L | 0.002 | 153 | 186 | 162 | 3 |
| Cd | 114 | 0.005 | ug/L | 0.001 | 26 | 17 | 46 | 18 |
| Sb | 121 | 0.042 | ug/L | 0.003 | 6 | 98 | 540 | 5 |
| Sb | 123 | 0.035 | ug/L | 0.001 | 4 | 81 | 363 | 3 |
| Ba | 135 | 0.968 | ug/L | 0.023 | 2 | 20 | 2340 | 1 |
| [Ba | 137 | 0.957 | ug/L | 0.031 | 3 | 31 | 3907 | 2 |
| [> Tb | 159 | | ug/L | | | 373033 | 350042 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 17 | 90 | 158 | 8 |
| Pb | 208 | 0.026 | ug/L | 0.002 | 6 | 366 | 1136 | 4 |
| Bi | 209 | | ug/L | | | 290180 | 289048 | 0 |
| Th | 232 | 0.019 | ug/L | 0.003 | 14 | 305 | 1011 | 9 |
| [U | 238 | 0.005 | ug/L | 0.000 | 7 | 50 | 278 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:29:30

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

C

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 309793 | 0 |
| [Be | 9 | 0.013 | ug/L | 0.007 | 56 | 2 | 8 | 31 |
| C | 13 | | mg/L | | | 5703 | 4864 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 2680581 | 1 |
| > Sc | 45 | | ug/L | | | 263116 | 226521 | 1 |
| V-1 | 51 | 3.384 | ug/L | 0.023 | 0 | 1770 | 36031 | 1 |
| V | 51 | 3.222 | ug/L | 0.031 | 0 | 6897 | 39446 | 1 |
| Cr | 52 | 0.412 | ug/L | 0.007 | 1 | 6826 | 9621 | 2 |
| Cr | 53 | 0.095 | ug/L | 0.047 | 49 | 2410 | 2179 | 3 |
| Mn | 55 | 218.419 | ug/L | 3.314 | 1 | 647 | 3407016 | 0 |
| Co | 59 | 0.700 | ug/L | 0.018 | 2 | 33 | 8761 | 2 |
| > Ge | 72 | | ug/L | | | 420611 | 329558 | 0 |
| Ni | 60 | 1.237 | ug/L | 0.024 | 1 | 69 | 3012 | 2 |
| Ni | 62 | 2.324 | ug/L | 0.273 | 11 | 97 | 935 | 11 |
| Cu | 63 | 0.937 | ug/L | 0.006 | 0 | 326 | 5608 | 0 |
| Cu | 65 | 0.726 | ug/L | 0.035 | 4 | 109 | 2129 | 5 |
| Zn | 66 | 2.249 | ug/L | 0.043 | 1 | 338 | 4437 | 2 |
| Zn | 67 | 2.263 | ug/L | 0.105 | 4 | 220 | 892 | 4 |
| Zn | 68 | 2.047 | ug/L | 0.096 | 4 | 8840 | 9694 | 1 |
| As-1 | 75 | 0.534 | ug/L | 0.029 | 5 | 534 | 1382 | 4 |
| As | 75 | 0.348 | ug/L | 0.061 | 17 | 11669 | 9774 | 1 |
| Se | 82 | 0.086 | ug/L | 0.123 | 142 | 0 | 13 | 142 |
| Se | 78 | -0.591 | ug/L | 0.217 | 36 | 11811 | 9003 | 1 |
| Mo | 98 | 1.830 | ug/L | 0.014 | 0 | 40 | 9957 | 1 |
| Y | 89 | | ug/L | | | 295919 | 267628 | 2 |
| Kr | 83 | | ug/L | | | 282 | 238 | 3 |
| > In | 115 | | ug/L | | | 426544 | 334728 | 1 |
| Ag | 107 | 0.009 | ug/L | 0.002 | 17 | 94 | 167 | 10 |
| Cd | 111 | 0.008 | ug/L | 0.005 | 57 | 186 | 166 | 8 |
| Cd | 114 | 0.006 | ug/L | 0.002 | 26 | 17 | 50 | 20 |
| Sb | 121 | 0.068 | ug/L | 0.005 | 6 | 98 | 762 | 6 |
| Sb | 123 | 0.064 | ug/L | 0.004 | 5 | 81 | 558 | 5 |
| Ba | 135 | 4.628 | ug/L | 0.050 | 1 | 20 | 10222 | 1 |
| Ba | 137 | 4.687 | ug/L | 0.061 | 1 | 31 | 17485 | 2 |
| > Tb | 159 | | ug/L | | | 373033 | 338261 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 55 | 90 | 129 | 19 |
| Pb | 208 | 0.065 | ug/L | 0.001 | 2 | 366 | 2266 | 2 |
| Bi | 209 | | ug/L | | | 290180 | 279344 | 0 |
| Th | 232 | 0.053 | ug/L | 0.001 | 2 | 305 | 2280 | 1 |
| U | 238 | 0.018 | ug/L | 0.001 | 2 | 50 | 807 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BDUP REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:36:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

CG

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 309532 | 1 |
| [Be | 9 | 0.015 | ug/L | 0.010 | 65 | 2 | 9 | 39 |
| C | 13 | | mg/L | | | 5703 | 4725 | 0 |
| Cl | 37 | | mg/L | | | 3663680 | 2539274 | 1 |
| > Sc | 45 | | ug/L | | | 263116 | 216319 | 0 |
| V-1 | 51 | 3.346 | ug/L | 0.042 | 1 | 1770 | 34040 | 0 |
| V | 51 | 3.181 | ug/L | 0.037 | 1 | 6897 | 37262 | 0 |
| Cr | 52 | 0.389 | ug/L | 0.004 | 0 | 6826 | 8994 | 0 |
| Cr | 53 | 0.062 | ug/L | 0.047 | 75 | 2410 | 2046 | 2 |
| Mn | 55 | 222.208 | ug/L | 3.766 | 1 | 647 | 3310660 | 2 |
| Co | 59 | 0.709 | ug/L | 0.029 | 4 | 33 | 8480 | 3 |
| > Ge | 72 | | ug/L | | | 420611 | 312820 | 1 |
| Ni | 60 | 1.212 | ug/L | 0.028 | 2 | 69 | 2802 | 1 |
| Ni | 62 | 2.500 | ug/L | 0.274 | 10 | 97 | 950 | 10 |
| Cu | 63 | 0.909 | ug/L | 0.009 | 0 | 326 | 5173 | 1 |
| Cu | 65 | 0.716 | ug/L | 0.013 | 1 | 109 | 1994 | 1 |
| Zn | 66 | 1.830 | ug/L | 0.012 | 0 | 338 | 3473 | 1 |
| Zn | 67 | 1.824 | ug/L | 0.157 | 8 | 220 | 715 | 8 |
| Zn | 68 | 1.564 | ug/L | 0.079 | 5 | 8840 | 8584 | 2 |
| As-1 | 75 | 0.555 | ug/L | 0.017 | 3 | 534 | 1347 | 1 |
| As | 75 | 0.322 | ug/L | 0.084 | 25 | 11669 | 9233 | 0 |
| Se | 82 | 0.043 | ug/L | 0.075 | 176 | 0 | 6 | 178 |
| Se | 78 | -0.808 | ug/L | 0.326 | 40 | 11811 | 8456 | 0 |
| Mo | 98 | 1.885 | ug/L | 0.035 | 1 | 40 | 9734 | 3 |
| Y | 89 | | ug/L | | | 295919 | 255628 | 1 |
| Kr | 83 | | ug/L | | | 282 | 229 | 4 |
| > In | 115 | | ug/L | | | 426544 | 321660 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.002 | 32 | 94 | 132 | 15 |
| Cd | 111 | 0.001 | ug/L | 0.009 | 1044 | 186 | 142 | 15 |
| Cd | 114 | 0.007 | ug/L | 0.001 | 15 | 17 | 53 | 10 |
| Sb | 121 | 0.063 | ug/L | 0.005 | 7 | 98 | 677 | 6 |
| Sb | 123 | 0.058 | ug/L | 0.002 | 4 | 81 | 486 | 4 |
| Ba | 135 | 4.665 | ug/L | 0.055 | 1 | 20 | 9901 | 1 |
| Ba | 137 | 4.738 | ug/L | 0.073 | 1 | 31 | 16982 | 1 |
| > Tb | 159 | | ug/L | | | 373033 | 329529 | 1 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 20 | 90 | 98 | 3 |
| Pb | 208 | 0.074 | ug/L | 0.002 | 3 | 366 | 2453 | 1 |
| Bi | 209 | | ug/L | | | 290180 | 270989 | 0 |
| Th | 232 | 0.042 | ug/L | 0.002 | 3 | 305 | 1811 | 2 |
| U | 238 | 0.017 | ug/L | 0.001 | 5 | 50 | 748 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BSPK REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:43:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

C6

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 305711 | 0 |
| [Be | 9 | 9.459 | ug/L | 0.144 | 1 | 2 | 3509 | 2 |
| C | 13 | | mg/L | | | 5703 | 4408 | 2 |
| Cl | 37 | | mg/L | | | 3663680 | 2445968 | 0 |
| > Sc | 45 | | ug/L | | | 263116 | 208881 | 1 |
| V-1 | 51 | 12.738 | ug/L | 0.215 | 1 | 1770 | 121162 | 0 |
| V | 51 | 12.613 | ug/L | 0.153 | 1 | 6897 | 126437 | 1 |
| Cr | 52 | 10.015 | ug/L | 0.190 | 1 | 6826 | 89421 | 0 |
| Cr | 53 | 9.798 | ug/L | 0.055 | 0 | 2410 | 11791 | 1 |
| Mn | 55 | 228.466 | ug/L | 3.245 | 1 | 647 | 3286466 | 1 |
| Co | 59 | 10.092 | ug/L | 0.204 | 2 | 33 | 116210 | 1 |
| > Ge | 72 | | ug/L | | | 420611 | 300344 | 1 |
| Ni | 60 | 11.855 | ug/L | 0.136 | 1 | 69 | 25887 | 0 |
| Ni | 62 | 12.592 | ug/L | 0.403 | 3 | 97 | 4314 | 2 |
| Cu | 63 | 11.608 | ug/L | 0.141 | 1 | 326 | 60685 | 2 |
| Cu | 65 | 11.167 | ug/L | 0.046 | 0 | 109 | 28743 | 1 |
| Zn | 66 | 34.443 | ug/L | 0.188 | 0 | 338 | 58461 | 1 |
| Zn | 67 | 31.018 | ug/L | 0.145 | 0 | 220 | 9150 | 1 |
| Zn | 68 | 32.601 | ug/L | 0.352 | 1 | 8840 | 46501 | 1 |
| As-1 | 75 | 10.914 | ug/L | 0.079 | 0 | 534 | 18324 | 1 |
| As | 75 | 10.478 | ug/L | 0.068 | 0 | 11669 | 25681 | 1 |
| Se | 82 | 35.117 | ug/L | 0.274 | 0 | 0 | 5202 | 1 |
| Se | 78 | 32.585 | ug/L | 0.584 | 1 | 11811 | 21086 | 1 |
| Mo | 98 | 1.828 | ug/L | 0.046 | 2 | 40 | 9062 | 2 |
| Y | 89 | | ug/L | | | 295919 | 248378 | 2 |
| Kr | 83 | | ug/L | | | 282 | 214 | 2 |
| > In | 115 | | ug/L | | | 426544 | 307233 | 0 |
| Ag | 107 | 8.813 | ug/L | 0.047 | 0 | 94 | 86483 | 0 |
| Cd | 111 | 10.679 | ug/L | 0.046 | 0 | 186 | 25246 | 0 |
| Cd | 114 | 10.357 | ug/L | 0.048 | 0 | 17 | 58527 | 1 |
| Sb | 121 | 0.053 | ug/L | 0.001 | 2 | 98 | 558 | 2 |
| Sb | 123 | 0.052 | ug/L | 0.001 | 2 | 81 | 427 | 2 |
| Ba | 135 | 14.496 | ug/L | 0.112 | 0 | 20 | 29359 | 1 |
| Ba | 137 | 14.581 | ug/L | 0.095 | 0 | 31 | 49871 | 1 |
| > Tb | 159 | | ug/L | | | 373033 | 318913 | 0 |
| Tl | 205 | 10.426 | ug/L | 0.106 | 1 | 90 | 230874 | 0 |
| Pb | 208 | 11.554 | ug/L | 0.052 | 0 | 366 | 322596 | 0 |
| Bi | 209 | | ug/L | | | 290180 | 264045 | 1 |
| Th | 232 | 10.961 | ug/L | 0.159 | 1 | 305 | 390687 | 1 |
| U | 238 | 11.156 | ug/L | 0.121 | 1 | 50 | 437730 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:49:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 250002 | 308192 | 0 |
| [| Be | 9 | 0.029 | ug/L | 0.013 | 45 | 2 | 14 | 34 |
| | C | 13 | | mg/L | | | 5703 | 4715 | 1 |
| | Cl | 37 | | mg/L | | | 3663680 | 2339904 | 0 |
| > | Sc | 45 | | ug/L | | | 263116 | 202187 | 0 |
| [| V-1 | 51 | 7.195 | ug/L | 0.155 | 2 | 1770 | 66836 | 1 |
| | V | 51 | 6.931 | ug/L | 0.152 | 2 | 6897 | 69635 | 1 |
| | Cr | 52 | 1.320 | ug/L | 0.004 | 0 | 6826 | 15962 | 0 |
| | Cr | 53 | 0.867 | ug/L | 0.014 | 1 | 2410 | 2699 | 1 |
| | Mn | 55 | 112.097 | ug/L | 0.627 | 0 | 647 | 1561246 | 1 |
| | Co | 59 | 0.758 | ug/L | 0.008 | 0 | 33 | 8469 | 1 |
| > | Ge | 72 | | ug/L | | | 420611 | 285143 | 0 |
| [| Ni | 60 | 0.800 | ug/L | 0.010 | 1 | 69 | 1701 | 0 |
| | Ni | 62 | 0.772 | ug/L | 0.081 | 10 | 97 | 312 | 8 |
| | Cu | 63 | 1.619 | ug/L | 0.032 | 1 | 326 | 8224 | 1 |
| | Cu | 65 | 1.378 | ug/L | 0.028 | 2 | 109 | 3431 | 1 |
| | Zn | 66 | 1.173 | ug/L | 0.045 | 3 | 338 | 2112 | 4 |
| | Zn | 67 | 1.511 | ug/L | 0.149 | 9 | 220 | 565 | 7 |
| | Zn | 68 | 0.710 | ug/L | 0.125 | 17 | 8840 | 6824 | 2 |
| | As-1 | 75 | 2.207 | ug/L | 0.016 | 0 | 534 | 3806 | 0 |
| | As | 75 | 1.979 | ug/L | 0.046 | 2 | 11669 | 11020 | 0 |
| | Se | 82 | 0.147 | ug/L | 0.053 | 35 | 0 | 20 | 36 |
| | Se | 78 | -0.583 | ug/L | 0.112 | 19 | 11811 | 7792 | 0 |
| [| Mo | 98 | 1.629 | ug/L | 0.024 | 1 | 40 | 7669 | 1 |
| | Y | 89 | | ug/L | | | 295919 | 256492 | 1 |
| | Kr | 83 | | ug/L | | | 282 | 217 | 2 |
| > | In | 115 | | ug/L | | | 426544 | 293707 | 0 |
| [| Ag | 107 | 0.012 | ug/L | 0.003 | 21 | 94 | 178 | 14 |
| | Cd | 111 | 0.022 | ug/L | 0.016 | 72 | 186 | 178 | 19 |
| | Cd | 114 | 0.010 | ug/L | 0.000 | 3 | 17 | 64 | 2 |
| | Sb | 121 | 0.053 | ug/L | 0.001 | 2 | 98 | 532 | 2 |
| | Sb | 123 | 0.050 | ug/L | 0.002 | 4 | 81 | 395 | 3 |
| | Ba | 135 | 3.751 | ug/L | 0.096 | 2 | 20 | 7271 | 1 |
| [| Ba | 137 | 3.774 | ug/L | 0.029 | 0 | 31 | 12354 | 0 |
| > | Tb | 159 | | ug/L | | | 373033 | 319360 | 0 |
| [| Tl | 205 | 0.004 | ug/L | 0.001 | 23 | 90 | 158 | 12 |
| | Pb | 208 | 0.132 | ug/L | 0.002 | 1 | 366 | 4006 | 1 |
| | Bi | 209 | | ug/L | | | 290180 | 262644 | 0 |
| | Th | 232 | 0.064 | ug/L | 0.002 | 2 | 305 | 2561 | 2 |
| [| U | 238 | 0.014 | ug/L | 0.000 | 2 | 50 | 592 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 14:56:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\optimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 311266 | 1 |
| [Be | 9 | 0.012 | ug/L | 0.004 | 28 | 2 | 8 | 17 |
| C | 13 | | mg/L | | | 5703 | 4370 | 3 |
| Cl | 37 | | mg/L | | | 3663680 | 2261677 | 0 |
| > Sc | 45 | | ug/L | | | 263116 | 196741 | 0 |
| V-1 | 51 | 4.166 | ug/L | 0.070 | 1 | 1770 | 38215 | 1 |
| V | 51 | 3.936 | ug/L | 0.069 | 1 | 6897 | 40713 | 1 |
| Cr | 52 | 0.599 | ug/L | 0.021 | 3 | 6826 | 9836 | 1 |
| Cr | 53 | 0.113 | ug/L | 0.013 | 11 | 2410 | 1910 | 0 |
| Mn | 55 | 54.064 | ug/L | 0.389 | 0 | 647 | 732929 | 0 |
| Co | 59 | 0.513 | ug/L | 0.004 | 0 | 33 | 5583 | 0 |
| > Ge | 72 | | ug/L | | | 420611 | 280838 | 1 |
| Ni | 60 | 0.379 | ug/L | 0.003 | 0 | 69 | 819 | 1 |
| Ni | 62 | 0.417 | ug/L | 0.053 | 12 | 97 | 196 | 7 |
| Cu | 63 | 1.887 | ug/L | 0.017 | 0 | 326 | 9407 | 1 |
| Cu | 65 | 1.742 | ug/L | 0.033 | 1 | 109 | 4252 | 1 |
| Zn | 66 | 1.633 | ug/L | 0.037 | 2 | 338 | 2806 | 0 |
| Zn | 67 | 1.536 | ug/L | 0.080 | 5 | 220 | 563 | 3 |
| Zn | 68 | 0.981 | ug/L | 0.046 | 4 | 8840 | 7033 | 0 |
| As-1 | 75 | 1.503 | ug/L | 0.015 | 0 | 534 | 2667 | 0 |
| As | 75 | 1.156 | ug/L | 0.040 | 3 | 11669 | 9579 | 0 |
| Se | 82 | -0.045 | ug/L | 0.105 | 230 | 0 | -6 | 229 |
| Se | 78 | -1.300 | ug/L | 0.073 | 5 | 11811 | 7414 | 0 |
| Mo | 98 | 0.824 | ug/L | 0.009 | 1 | 40 | 3837 | 2 |
| Y | 89 | | ug/L | | | 295919 | 248928 | 1 |
| Kr | 83 | | ug/L | | | 282 | 213 | 3 |
| > In | 115 | | ug/L | | | 426544 | 290384 | 0 |
| Ag | 107 | 0.012 | ug/L | 0.003 | 23 | 94 | 177 | 15 |
| Cd | 111 | 0.029 | ug/L | 0.009 | 32 | 186 | 190 | 11 |
| Cd | 114 | 0.006 | ug/L | 0.001 | 10 | 17 | 43 | 8 |
| Sb | 121 | 0.049 | ug/L | 0.005 | 9 | 98 | 495 | 7 |
| Sb | 123 | 0.049 | ug/L | 0.006 | 12 | 81 | 383 | 10 |
| Ba | 135 | 1.618 | ug/L | 0.022 | 1 | 20 | 3109 | 1 |
| Ba | 137 | 1.641 | ug/L | 0.025 | 1 | 31 | 5323 | 1 |
| > Tb | 159 | | ug/L | | | 373033 | 311421 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.000 | 12 | 90 | 132 | 4 |
| Pb | 208 | 0.201 | ug/L | 0.006 | 2 | 366 | 5793 | 2 |
| Bi | 209 | | ug/L | | | 290180 | 264162 | 0 |
| Th | 232 | 0.084 | ug/L | 0.001 | 1 | 305 | 3171 | 0 |
| U | 238 | 0.020 | ug/L | 0.001 | 2 | 50 | 792 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 E REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:03:38

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

C6

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 305783 | 1 |
| [Be | 9 | 0.015 | ug/L | 0.011 | 73 | 2 | 9 | 43 |
| C | 13 | | mg/L | | | 5703 | 4226 | 3 |
| Cl | 37 | | mg/L | | | 3663680 | 2344283 | 0 |
| > Sc | 45 | | ug/L | | | 263116 | 194312 | 1 |
| V-1 | 51 | 1.128 | ug/L | 0.041 | 3 | 1770 | 11172 | 1 |
| V | 51 | 1.037 | ug/L | 0.022 | 2 | 6897 | 14341 | 0 |
| Cr | 52 | 1.380 | ug/L | 0.046 | 3 | 6826 | 15801 | 0 |
| Cr | 53 | 1.086 | ug/L | 0.047 | 4 | 2410 | 2799 | 2 |
| Mn | 55 | 203.237 | ug/L | 4.367 | 2 | 647 | 2719296 | 1 |
| Co | 59 | 0.170 | ug/L | 0.003 | 1 | 33 | 1842 | 1 |
| > Ge | 72 | | ug/L | | | 420611 | 279945 | 0 |
| Ni | 60 | 1.218 | ug/L | 0.005 | 0 | 69 | 2521 | 0 |
| Ni | 62 | 1.057 | ug/L | 0.058 | 5 | 97 | 396 | 5 |
| Cu | 63 | 0.295 | ug/L | 0.015 | 4 | 326 | 1648 | 4 |
| Cu | 65 | 0.209 | ug/L | 0.006 | 3 | 109 | 573 | 3 |
| Zn | 66 | 7.087 | ug/L | 0.005 | 0 | 338 | 11390 | 0 |
| Zn | 67 | 6.025 | ug/L | 0.021 | 0 | 220 | 1774 | 0 |
| Zn | 68 | 6.218 | ug/L | 0.068 | 1 | 8840 | 13027 | 0 |
| As-1 | 75 | 0.384 | ug/L | 0.015 | 3 | 534 | 943 | 2 |
| As | 75 | 0.021 | ug/L | 0.046 | 216 | 11669 | 7799 | 0 |
| Se | 82 | 0.052 | ug/L | 0.039 | 74 | 0 | 7 | 75 |
| Se | 78 | -1.357 | ug/L | 0.155 | 11 | 11811 | 7370 | 0 |
| Mo | 98 | 0.955 | ug/L | 0.007 | 0 | 40 | 4426 | 1 |
| Y | 89 | | ug/L | | | 295919 | 234271 | 0 |
| Kr | 83 | | ug/L | | | 282 | 205 | 5 |
| > In | 115 | | ug/L | | | 426544 | 287213 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.000 | 12 | 94 | 82 | 2 |
| Cd | 111 | -0.011 | ug/L | 0.009 | 85 | 186 | 101 | 21 |
| Cd | 114 | 0.004 | ug/L | 0.002 | 46 | 17 | 30 | 28 |
| Sb | 121 | 0.027 | ug/L | 0.003 | 12 | 98 | 293 | 9 |
| Sb | 123 | 0.026 | ug/L | 0.001 | 4 | 81 | 222 | 4 |
| Ba | 135 | 3.084 | ug/L | 0.032 | 1 | 20 | 5849 | 1 |
| Ba | 137 | 3.155 | ug/L | 0.046 | 1 | 31 | 10102 | 0 |
| > Tb | 159 | | ug/L | | | 373033 | 313405 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 272 | 90 | 77 | 7 |
| Pb | 208 | 0.030 | ug/L | 0.000 | 1 | 366 | 1140 | 1 |
| Bi | 209 | | ug/L | | | 290180 | 261573 | 1 |
| Th | 232 | 0.007 | ug/L | 0.000 | 5 | 305 | 510 | 2 |
| U | 238 | 0.002 | ug/L | 0.000 | 11 | 50 | 133 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 F REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:10:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 250002 | 306000 | 1 |
| [Be | 9 | 0.011 | ug/L | 0.006 | 56 | 2 | 7 | 28 |
| C | 13 | | mg/L | | | 5703 | 4551 | 0 |
| Cl | 37 | | mg/L | | | 3663680 | 2286166 | 0 |
| [> Sc | 45 | | ug/L | | | 263116 | 191297 | 0 |
| V-1 | 51 | 2.897 | ug/L | 0.029 | 0 | 1770 | 26235 | 1 |
| V | 51 | 2.717 | ug/L | 0.022 | 0 | 6897 | 28879 | 0 |
| Cr | 52 | 0.569 | ug/L | 0.011 | 1 | 6826 | 9332 | 1 |
| Cr | 53 | 0.161 | ug/L | 0.132 | 81 | 2410 | 1900 | 5 |
| Mn | 55 | 212.157 | ug/L | 4.612 | 2 | 647 | 2795046 | 1 |
| Co | 59 | 0.338 | ug/L | 0.002 | 0 | 33 | 3584 | 0 |
| [> Ge | 72 | | ug/L | | | 420611 | 274708 | 0 |
| Ni | 60 | 1.350 | ug/L | 0.017 | 1 | 69 | 2736 | 0 |
| Ni | 62 | 1.184 | ug/L | 0.063 | 5 | 97 | 428 | 4 |
| Cu | 63 | 0.420 | ug/L | 0.020 | 4 | 326 | 2215 | 4 |
| Cu | 65 | 0.197 | ug/L | 0.004 | 2 | 109 | 533 | 1 |
| Zn | 66 | 4.721 | ug/L | 0.022 | 0 | 338 | 7520 | 0 |
| Zn | 67 | 4.266 | ug/L | 0.190 | 4 | 220 | 1275 | 3 |
| Zn | 68 | 3.983 | ug/L | 0.046 | 1 | 8840 | 10264 | 1 |
| As-1 | 75 | 5.152 | ug/L | 0.032 | 0 | 534 | 8095 | 1 |
| As | 75 | 4.819 | ug/L | 0.046 | 0 | 11669 | 14919 | 0 |
| Se | 82 | 0.140 | ug/L | 0.058 | 41 | 0 | 18 | 41 |
| Se | 78 | -1.034 | ug/L | 0.102 | 9 | 11811 | 7347 | 0 |
| Mo | 98 | 0.867 | ug/L | 0.005 | 0 | 40 | 3946 | 0 |
| Y | 89 | | ug/L | | | 295919 | 234880 | 1 |
| Kr | 83 | | ug/L | | | 282 | 197 | 3 |
| [> In | 115 | | ug/L | | | 426544 | 283355 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.000 | 15 | 94 | 82 | 3 |
| Cd | 111 | 0.003 | ug/L | 0.006 | 188 | 186 | 130 | 8 |
| Cd | 114 | 0.003 | ug/L | 0.002 | 53 | 17 | 27 | 30 |
| Sb | 121 | 0.035 | ug/L | 0.001 | 3 | 98 | 362 | 3 |
| Sb | 123 | 0.035 | ug/L | 0.007 | 19 | 81 | 281 | 14 |
| Ba | 135 | 6.205 | ug/L | 0.083 | 1 | 20 | 11597 | 0 |
| Ba | 137 | 6.406 | ug/L | 0.047 | 0 | 31 | 20217 | 1 |
| [> Tb | 159 | | ug/L | | | 373033 | 311654 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 96 | 90 | 63 | 17 |
| Pb | 208 | 0.040 | ug/L | 0.001 | 3 | 366 | 1391 | 3 |
| Bi | 209 | | ug/L | | | 290180 | 258170 | 0 |
| Th | 232 | 0.012 | ug/L | 0.001 | 7 | 305 | 661 | 4 |
| U | 238 | 0.004 | ug/L | 0.000 | 4 | 50 | 196 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:17:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

C6

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | | ug/L | | | 250002 | 300853 | 1 |
| [| Be | 9 | 0.006 | ug/L | 0.004 | 65 | 2 | 5 | 24 |
| | C | 13 | | mg/L | | | 5703 | 4356 | 1 |
| | Cl | 37 | | mg/L | | | 3663680 | 2347339 | 0 |
| > | Sc | 45 | | ug/L | | | 263116 | 193076 | 1 |
| [| V-1 | 51 | 4.624 | ug/L | 0.054 | 1 | 1770 | 41484 | 1 |
| | V | 51 | 4.456 | ug/L | 0.047 | 1 | 6897 | 44563 | 1 |
| | Cr | 52 | 0.846 | ug/L | 0.041 | 4 | 6826 | 11569 | 2 |
| | Cr | 53 | 0.561 | ug/L | 0.025 | 4 | 2410 | 2292 | 0 |
| | Mn | 55 | 643.274 | ug/L | 10.686 | 1 | 647 | 8552089 | 0 |
| [| Co | 59 | 0.509 | ug/L | 0.012 | 2 | 33 | 5445 | 1 |
| > | Ge | 72 | | ug/L | | | 420611 | 273583 | 1 |
| [| Ni | 60 | 1.150 | ug/L | 0.016 | 1 | 69 | 2329 | 0 |
| | Ni | 62 | 1.229 | ug/L | 0.129 | 10 | 97 | 440 | 10 |
| | Cu | 63 | 0.736 | ug/L | 0.003 | 0 | 326 | 3704 | 1 |
| | Cu | 65 | 0.450 | ug/L | 0.012 | 2 | 109 | 1123 | 1 |
| | Zn | 66 | 4.231 | ug/L | 0.093 | 2 | 338 | 6734 | 2 |
| | Zn | 67 | 3.802 | ug/L | 0.180 | 4 | 220 | 1147 | 3 |
| | Zn | 68 | 3.684 | ug/L | 0.171 | 4 | 8840 | 9886 | 2 |
| | As-1 | 75 | 3.590 | ug/L | 0.045 | 1 | 534 | 5722 | 0 |
| | As | 75 | 3.254 | ug/L | 0.105 | 3 | 11669 | 12497 | 0 |
| | Se | 82 | 0.236 | ug/L | 0.032 | 13 | 0 | 31 | 12 |
| | Se | 78 | -0.938 | ug/L | 0.298 | 31 | 11811 | 7350 | 0 |
| [| Mo | 98 | 1.406 | ug/L | 0.019 | 1 | 40 | 6357 | 1 |
| | Y | 89 | | ug/L | | | 295919 | 232515 | 1 |
| | Kr | 83 | | ug/L | | | 282 | 204 | 3 |
| > | In | 115 | | ug/L | | | 426544 | 283445 | 0 |
| [| Ag | 107 | 0.001 | ug/L | 0.000 | 40 | 94 | 72 | 5 |
| | Cd | 111 | -0.016 | ug/L | 0.007 | 40 | 186 | 88 | 15 |
| | Cd | 114 | 0.006 | ug/L | 0.002 | 33 | 17 | 43 | 24 |
| | Sb | 121 | 0.031 | ug/L | 0.002 | 7 | 98 | 331 | 5 |
| | Sb | 123 | 0.031 | ug/L | 0.002 | 4 | 81 | 254 | 4 |
| | Ba | 135 | 6.125 | ug/L | 0.029 | 0 | 20 | 11452 | 0 |
| [| Ba | 137 | 6.146 | ug/L | 0.062 | 1 | 31 | 19403 | 0 |
| > | Tb | 159 | | ug/L | | | 373033 | 306783 | 1 |
| [| Tl | 205 | -0.000 | ug/L | 0.000 | 1740 | 90 | 73 | 4 |
| | Pb | 208 | 0.064 | ug/L | 0.002 | 3 | 366 | 2023 | 2 |
| | Bi | 209 | | ug/L | | | 290180 | 252244 | 0 |
| | Th | 232 | 0.015 | ug/L | 0.000 | 2 | 305 | 753 | 1 |
| [| U | 238 | 0.008 | ug/L | 0.001 | 7 | 50 | 344 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 F REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:24:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

cl

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 307420 | 0 |
| [Be | 9 | 0.015 | ug/L | 0.008 | 55 | 2 | 9 | 34 |
| C | 13 | | mg/L | | | 5703 | 3902 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 2072927 | 7 |
| > Sc | 45 | | ug/L | | | 263116 | 188480 | 0 |
| V-1 | 51 | 3.971 | ug/L | 0.045 | 1 | 1770 | 34959 | 1 |
| V | 51 | 3.746 | ug/L | 0.039 | 1 | 6897 | 37356 | 1 |
| Cr | 52 | 0.968 | ug/L | 0.009 | 0 | 6826 | 12214 | 0 |
| Cr | 53 | 0.462 | ug/L | 0.042 | 9 | 2410 | 2146 | 1 |
| Mn | 55 | 130.860 | ug/L | 1.389 | 1 | 647 | 1698980 | 1 |
| [Co | 59 | 0.238 | ug/L | 0.003 | 1 | 33 | 2491 | 0 |
| > Ge | 72 | | ug/L | | | 420611 | 276422 | 0 |
| Ni | 60 | 1.119 | ug/L | 0.022 | 1 | 69 | 2290 | 2 |
| Ni | 62 | 1.097 | ug/L | 0.057 | 5 | 97 | 404 | 3 |
| Cu | 63 | 0.421 | ug/L | 0.015 | 3 | 326 | 2230 | 2 |
| Cu | 65 | 0.221 | ug/L | 0.009 | 3 | 109 | 593 | 3 |
| Zn | 66 | 6.011 | ug/L | 0.153 | 2 | 338 | 9571 | 1 |
| Zn | 67 | 5.401 | ug/L | 0.192 | 3 | 220 | 1586 | 3 |
| Zn | 68 | 5.204 | ug/L | 0.350 | 6 | 8840 | 11711 | 2 |
| As-1 | 75 | 2.814 | ug/L | 0.007 | 0 | 534 | 4609 | 0 |
| As | 75 | 2.497 | ug/L | 0.074 | 2 | 11669 | 11473 | 0 |
| Se | 82 | 0.045 | ug/L | 0.063 | 138 | 0 | 6 | 139 |
| Se | 78 | -1.050 | ug/L | 0.269 | 25 | 11811 | 7386 | 0 |
| [Mo | 98 | 0.431 | ug/L | 0.009 | 2 | 40 | 1985 | 2 |
| Y | 89 | | ug/L | | | 295919 | 238484 | 0 |
| Kr | 83 | | ug/L | | | 282 | 209 | 2 |
| > In | 115 | | ug/L | | | 426544 | 284811 | 1 |
| Ag | 107 | -0.000 | ug/L | 0.001 | 49751 | 94 | 62 | 17 |
| Cd | 111 | -0.015 | ug/L | 0.010 | 66 | 186 | 90 | 25 |
| Cd | 114 | 0.004 | ug/L | 0.000 | 13 | 17 | 31 | 8 |
| Sb | 121 | 0.009 | ug/L | 0.001 | 15 | 98 | 142 | 7 |
| Sb | 123 | 0.007 | ug/L | 0.002 | 30 | 81 | 100 | 12 |
| Ba | 135 | 3.951 | ug/L | 0.064 | 1 | 20 | 7426 | 0 |
| [Ba | 137 | 3.976 | ug/L | 0.101 | 2 | 31 | 12620 | 1 |
| > Tb | 159 | | ug/L | | | 373033 | 311804 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 504 | 90 | 72 | 15 |
| Pb | 208 | 0.026 | ug/L | 0.001 | 4 | 366 | 1010 | 2 |
| Bi | 209 | | ug/L | | | 290180 | 260880 | 0 |
| Th | 232 | 0.006 | ug/L | 0.000 | 1 | 305 | 458 | 0 |
| [U | 238 | 0.004 | ug/L | 0.000 | 4 | 50 | 199 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:31:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 295051 | 1 |
| [Be | 9 | 46.186 | ug/L | 0.904 | 1 | 2 | 16523 | 2 |
| C | 13 | | mg/L | | | 5703 | 3832 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 2183313 | 7 |
| > Sc | 45 | | ug/L | | | 263116 | 174494 | 0 |
| V-1 | 51 | 51.030 | ug/L | 0.601 | 1 | 1770 | 402005 | 0 |
| V | 51 | 50.945 | ug/L | 0.491 | 0 | 6897 | 412741 | 0 |
| Cr | 52 | 51.328 | ug/L | 0.931 | 1 | 6826 | 364209 | 1 |
| Cr | 53 | 51.050 | ug/L | 0.577 | 1 | 2410 | 44588 | 0 |
| Mn | 55 | 50.627 | ug/L | 0.185 | 0 | 647 | 608761 | 0 |
| Co | 59 | 49.881 | ug/L | 0.287 | 0 | 33 | 479772 | 0 |
| > Ge | 72 | | ug/L | | | 420611 | 272745 | 0 |
| Ni | 60 | 52.016 | ug/L | 0.295 | 0 | 69 | 103004 | 1 |
| Ni | 62 | 50.523 | ug/L | 0.338 | 0 | 97 | 15533 | 1 |
| Cu | 63 | 50.715 | ug/L | 0.260 | 0 | 326 | 240033 | 0 |
| Cu | 65 | 49.542 | ug/L | 0.734 | 1 | 109 | 115551 | 1 |
| Zn | 66 | 51.224 | ug/L | 0.469 | 0 | 338 | 78850 | 1 |
| Zn | 67 | 48.119 | ug/L | 0.461 | 0 | 220 | 12813 | 1 |
| Zn | 68 | 49.029 | ug/L | 0.579 | 1 | 8840 | 60618 | 1 |
| As-1 | 75 | 50.339 | ug/L | 0.337 | 0 | 534 | 75493 | 0 |
| As | 75 | 49.415 | ug/L | 0.305 | 0 | 11669 | 81866 | 0 |
| Se | 82 | 55.937 | ug/L | 0.535 | 0 | 0 | 7524 | 0 |
| Se | 78 | 51.949 | ug/L | 0.495 | 0 | 11811 | 25977 | 0 |
| Mo | 98 | 57.044 | ug/L | 0.442 | 0 | 40 | 256033 | 0 |
| Y | 89 | | ug/L | | | 295919 | 225043 | 1 |
| Kr | 83 | | ug/L | | | 282 | 203 | 1 |
| > In | 115 | | ug/L | | | 426544 | 281751 | 0 |
| Ag | 107 | 53.315 | ug/L | 0.517 | 0 | 94 | 479467 | 0 |
| Cd | 111 | 52.181 | ug/L | 0.197 | 0 | 186 | 112653 | 0 |
| Cd | 114 | 50.870 | ug/L | 0.438 | 0 | 17 | 263581 | 1 |
| Sb | 121 | 48.944 | ug/L | 0.370 | 0 | 98 | 412321 | 0 |
| Sb | 123 | 48.168 | ug/L | 0.232 | 0 | 81 | 310840 | 0 |
| Ba | 135 | 47.980 | ug/L | 0.450 | 0 | 20 | 89080 | 0 |
| Ba | 137 | 48.740 | ug/L | 0.117 | 0 | 31 | 152826 | 0 |
| > Tb | 159 | | ug/L | | | 373033 | 306214 | 0 |
| Tl | 205 | 50.868 | ug/L | 0.302 | 0 | 90 | 1081296 | 0 |
| Pb | 208 | 56.329 | ug/L | 0.182 | 0 | 366 | 1509013 | 0 |
| Bi | 209 | | ug/L | | | 290180 | 256746 | 1 |
| Th | 232 | 52.688 | ug/L | 0.177 | 0 | 305 | 1802275 | 0 |
| U | 238 | 55.186 | ug/L | 4.034 | 7 | 50 | 2079068 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:38:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 250002 | 299286 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.005 | 175 | 2 | 4 | 41 |
| C | 13 | | mg/L | | | 5703 | 4311 | 1 |
| Cl | 37 | | mg/L | | | 3663680 | 2266974 | 0 |
| > Sc | 45 | | ug/L | | | 263116 | 173450 | 0 |
| V-1 | 51 | 0.017 | ug/L | 0.005 | 27 | 1770 | 1296 | 1 |
| V | 51 | -0.163 | ug/L | 0.007 | 4 | 6897 | 3248 | 0 |
| Cr | 52 | -0.052 | ug/L | 0.006 | 10 | 6826 | 4138 | 0 |
| Cr | 53 | -0.594 | ug/L | 0.013 | 2 | 2410 | 1091 | 0 |
| Mn | 55 | 0.008 | ug/L | 0.001 | 17 | 647 | 519 | 4 |
| Co | 59 | 0.003 | ug/L | 0.002 | 70 | 33 | 50 | 39 |
| > Ge | 72 | | ug/L | | | 420611 | 268909 | 0 |
| Ni | 60 | -0.003 | ug/L | 0.004 | 141 | 69 | 38 | 21 |
| Ni | 62 | -0.094 | ug/L | 0.005 | 5 | 97 | 33 | 3 |
| Cu | 63 | -0.008 | ug/L | 0.004 | 45 | 326 | 172 | 10 |
| Cu | 65 | 0.008 | ug/L | 0.004 | 58 | 109 | 87 | 12 |
| Zn | 66 | -0.016 | ug/L | 0.007 | 44 | 338 | 192 | 6 |
| Zn | 67 | -0.161 | ug/L | 0.025 | 15 | 220 | 99 | 5 |
| Zn | 68 | -0.628 | ug/L | 0.095 | 15 | 8840 | 4957 | 1 |
| As-1 | 75 | 0.016 | ug/L | 0.021 | 129 | 534 | 365 | 8 |
| As | 75 | -0.134 | ug/L | 0.054 | 40 | 11669 | 7260 | 0 |
| Se | 82 | -0.071 | ug/L | 0.033 | 45 | 0 | -9 | 45 |
| Se | 78 | -0.558 | ug/L | 0.243 | 43 | 11811 | 7356 | 0 |
| [Mo | 98 | 0.011 | ug/L | 0.003 | 24 | 40 | 72 | 16 |
| Y | 89 | | ug/L | | | 295919 | 222882 | 0 |
| Kr | 83 | | ug/L | | | 282 | 201 | 1 |
| > In | 115 | | ug/L | | | 426544 | 278571 | 1 |
| Ag | 107 | 0.002 | ug/L | 0.002 | 70 | 94 | 81 | 18 |
| Cd | 111 | -0.016 | ug/L | 0.001 | 8 | 186 | 87 | 2 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 54 | 17 | 21 | 25 |
| Sb | 121 | 0.023 | ug/L | 0.005 | 20 | 98 | 258 | 15 |
| Sb | 123 | 0.022 | ug/L | 0.007 | 30 | 81 | 194 | 22 |
| Ba | 135 | 0.005 | ug/L | 0.005 | 92 | 20 | 22 | 40 |
| [Ba | 137 | 0.006 | ug/L | 0.001 | 23 | 31 | 39 | 12 |
| > Tb | 159 | | ug/L | | | 373033 | 304110 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.002 | 77 | 90 | 128 | 32 |
| Pb | 208 | 0.003 | ug/L | 0.001 | 26 | 366 | 381 | 5 |
| Bi | 209 | | ug/L | | | 290180 | 259970 | 0 |
| Th | 232 | 0.007 | ug/L | 0.003 | 40 | 305 | 475 | 19 |
| [U | 238 | 0.002 | ug/L | 0.001 | 27 | 50 | 131 | 18 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:45:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | ug/L | | | | 295692 | 0 |
| [| Be | 9 | ug/L | | | | 7 | 9 |
| | C | 13 | mg/L | | | | 4338 | 1 |
| | Cl | 37 | mg/L | | | | 2253739 | 0 |
| [> | Sc | 45 | ug/L | | | | 172956 | 0 |
| [| V-1 | 51 | ug/L | | | | 1268 | 18 |
| | V | 51 | ug/L | | | | 3100 | 2 |
| | Cr | 52 | ug/L | | | | 4104 | 2 |
| | Cr | 53 | ug/L | | | | 1049 | 3 |
| | Mn | 55 | ug/L | | | | 483 | 3 |
| [| Co | 59 | ug/L | | | | 33 | 7 |
| [> | Ge | 72 | ug/L | | | | 266710 | 0 |
| [| Ni | 60 | ug/L | | | | 45 | 15 |
| | Ni | 62 | ug/L | | | | 42 | 12 |
| | Cu | 63 | ug/L | | | | 155 | 5 |
| | Cu | 65 | ug/L | | | | 68 | 1 |
| | Zn | 66 | ug/L | | | | 195 | 9 |
| | Zn | 67 | ug/L | | | | 100 | 7 |
| | Zn | 68 | ug/L | | | | 4936 | 1 |
| | As-1 | 75 | ug/L | | | | 396 | 1 |
| | As | 75 | ug/L | | | | 7197 | 1 |
| | Se | 82 | ug/L | | | | 0 | 755 |
| | Se | 78 | ug/L | | | | 7293 | 1 |
| [| Mo | 98 | ug/L | | | | 34 | 22 |
| | Y | 89 | ug/L | | | | 220418 | 1 |
| | Kr | 83 | ug/L | | | | 204 | 4 |
| [> | In | 115 | ug/L | | | | 277236 | 0 |
| [| Ag | 107 | ug/L | | | | 54 | 13 |
| | Cd | 111 | ug/L | | | | 81 | 5 |
| | Cd | 114 | ug/L | | | | 10 | 26 |
| | Sb | 121 | ug/L | | | | 135 | 20 |
| | Sb | 123 | ug/L | | | | 112 | 11 |
| | Ba | 135 | ug/L | | | | 17 | 42 |
| [| Ba | 137 | ug/L | | | | 19 | 55 |
| [> | Tb | 159 | ug/L | | | | 303177 | 0 |
| [| Tl | 205 | ug/L | | | | 64 | 21 |
| | Pb | 208 | ug/L | | | | 292 | 9 |
| | Bi | 209 | ug/L | | | | 258422 | 0 |
| | Th | 232 | ug/L | | | | 335 | 17 |
| [| U | 238 | ug/L | | | | 49 | 21 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Thursday, April 01, 2010 15:45:55

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | r Corr Coeff | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|--------------|--------|------------|------------|------------|------------|------------|
| Li | 6 | | | | | | | |
| Be | 9 | 1.0000 | 0.0012 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V-1 | 51 | 1.0000 | 0.0450 | 10 | 20 | 50 | 100 | |
| V | 51 | 1.0000 | 0.0459 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0402 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0048 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0689 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0551 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0073 | 10 | 20 | 50 | 100 | |
| Ni | 62 | 1.0000 | 0.0011 | 10 | 20 | 50 | 100 | |
| Cu | 63 | 0.9999 | 0.0173 | 10 | 20 | 50 | 100 | |
| Cu | 65 | 1.0000 | 0.0085 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0056 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 1.0000 | 0.0010 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0041 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| Se | 82 | 1.0000 | 0.0005 | 10 | 20 | 50 | 100 | |
| Se | 78 | 1.0000 | 0.0013 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0165 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 0.9999 | 0.0319 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0077 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0184 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 1.0000 | 0.0299 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 1.0000 | 0.0229 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0066 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0111 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9992 | 0.0694 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 1.0000 | 0.0875 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 0.9989 | 0.1117 | 10 | 20 | 50 | 100 | |
| U | 238 | 0.9998 | 0.1230 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 15:53:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 293387 | 0 |
| [Be | 9 | 46.022 | ug/L | 0.811 | 1 | 7 | 16374 | 0 |
| C | 13 | | mg/L | | | 4338 | 3817 | 0 |
| Cl | 37 | | mg/L | | | 2253739 | 2281590 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 173406 | 1 |
| V-1 | 51 | 51.276 | ug/L | 0.375 | 0 | 1268 | 401543 | 1 |
| V | 51 | 51.255 | ug/L | 0.406 | 0 | 3100 | 411200 | 1 |
| Cr | 52 | 51.130 | ug/L | 0.288 | 0 | 4104 | 360188 | 1 |
| Cr | 53 | 51.075 | ug/L | 0.807 | 1 | 1049 | 43789 | 0 |
| Mn | 55 | 50.010 | ug/L | 0.989 | 1 | 483 | 597550 | 0 |
| Co | 59 | 49.227 | ug/L | 0.678 | 1 | 33 | 470491 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 268943 | 1 |
| Ni | 60 | 52.213 | ug/L | 0.890 | 1 | 45 | 101940 | 0 |
| Ni | 62 | 50.220 | ug/L | 0.375 | 0 | 42 | 15206 | 1 |
| Cu | 63 | 50.848 | ug/L | 0.466 | 0 | 155 | 237239 | 0 |
| Cu | 65 | 49.969 | ug/L | 0.182 | 0 | 68 | 114923 | 0 |
| Zn | 66 | 51.236 | ug/L | 0.383 | 0 | 195 | 77744 | 0 |
| Zn | 67 | 48.545 | ug/L | 0.945 | 1 | 100 | 12703 | 0 |
| Zn | 68 | 49.748 | ug/L | 0.479 | 0 | 4936 | 59888 | 0 |
| As-1 | 75 | 50.397 | ug/L | 0.820 | 1 | 396 | 74578 | 0 |
| As | 75 | 49.700 | ug/L | 1.041 | 2 | 7197 | 80934 | 0 |
| Se | 82 | 56.270 | ug/L | 0.423 | 0 | 0 | 7463 | 1 |
| Se | 78 | 53.098 | ug/L | 1.239 | 2 | 7293 | 25814 | 0 |
| Mo | 98 | 57.473 | ug/L | 0.415 | 0 | 34 | 254366 | 0 |
| Y | 89 | | ug/L | | | 220418 | 224056 | 0 |
| Kr | 83 | | ug/L | | | 204 | 207 | 1 |
| > In | 115 | | ug/L | | | 277236 | 279623 | 0 |
| Ag | 107 | 53.262 | ug/L | 0.244 | 0 | 54 | 475362 | 0 |
| Cd | 111 | 52.318 | ug/L | 0.887 | 1 | 81 | 112045 | 0 |
| Cd | 114 | 51.301 | ug/L | 1.017 | 1 | 10 | 263776 | 1 |
| Sb | 121 | 48.536 | ug/L | 0.741 | 1 | 135 | 405843 | 0 |
| Sb | 123 | 48.312 | ug/L | 0.422 | 0 | 112 | 309469 | 0 |
| Ba | 135 | 48.280 | ug/L | 0.794 | 1 | 17 | 88959 | 0 |
| Ba | 137 | 49.068 | ug/L | 0.705 | 1 | 19 | 152682 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 304273 | 1 |
| Tl | 205 | 51.187 | ug/L | 0.283 | 0 | 64 | 1081117 | 0 |
| Pb | 208 | 56.395 | ug/L | 0.461 | 0 | 292 | 1501085 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 255582 | 1 |
| Th | 232 | 52.936 | ug/L | 0.528 | 0 | 335 | 1799232 | 0 |
| U | 238 | 52.739 | ug/L | 0.537 | 1 | 49 | 1973928 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:01:10

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 295792 | 0 |
| [Be | 9 | -0.003 | ug/L | 0.014 | 405 | 7 | 6 | 75 |
| C | 13 | | mg/L | | | 4338 | 4181 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2297730 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 172830 | 1 |
| V-1 | 51 | 0.000 | ug/L | 0.012 | 3300 | 1268 | 1270 | 7 |
| V | 51 | 0.006 | ug/L | 0.013 | 209 | 3100 | 3145 | 2 |
| Cr | 52 | 0.012 | ug/L | 0.020 | 160 | 4104 | 4185 | 2 |
| Cr | 53 | 0.029 | ug/L | 0.047 | 164 | 1049 | 1072 | 2 |
| Mn | 55 | -0.002 | ug/L | 0.001 | 32 | 483 | 453 | 0 |
| Co | 59 | 0.002 | ug/L | 0.001 | 60 | 33 | 52 | 21 |
| > Ge | 72 | | ug/L | | | 266710 | 265447 | 0 |
| Ni | 60 | -0.002 | ug/L | 0.000 | 18 | 45 | 40 | 1 |
| Ni | 62 | -0.044 | ug/L | 0.032 | 71 | 42 | 29 | 32 |
| Cu | 63 | -0.002 | ug/L | 0.002 | 114 | 155 | 145 | 7 |
| Cu | 65 | 0.005 | ug/L | 0.002 | 43 | 68 | 79 | 6 |
| Zn | 66 | 0.005 | ug/L | 0.008 | 142 | 195 | 202 | 5 |
| Zn | 67 | 0.015 | ug/L | 0.060 | 399 | 100 | 104 | 14 |
| Zn | 68 | 0.010 | ug/L | 0.081 | 782 | 4936 | 4923 | 1 |
| As-1 | 75 | -0.004 | ug/L | 0.010 | 245 | 396 | 388 | 3 |
| As | 75 | 0.084 | ug/L | 0.033 | 38 | 7197 | 7286 | 0 |
| Se | 82 | -0.092 | ug/L | 0.084 | 91 | 0 | -12 | 86 |
| Se | 78 | 0.334 | ug/L | 0.120 | 35 | 7293 | 7374 | 0 |
| Mo | 98 | 0.010 | ug/L | 0.003 | 32 | 34 | 78 | 18 |
| Y | 89 | | ug/L | | | 220418 | 221002 | 0 |
| Kr | 83 | | ug/L | | | 204 | 210 | 2 |
| > In | 115 | | ug/L | | | 277236 | 279622 | 0 |
| Ag | 107 | 0.004 | ug/L | 0.002 | 42 | 54 | 94 | 18 |
| Cd | 111 | 0.007 | ug/L | 0.003 | 38 | 81 | 97 | 6 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 33 | 10 | 28 | 21 |
| Sb | 121 | 0.021 | ug/L | 0.006 | 27 | 135 | 308 | 15 |
| Sb | 123 | 0.018 | ug/L | 0.003 | 13 | 112 | 232 | 7 |
| Ba | 135 | 0.003 | ug/L | 0.004 | 134 | 17 | 22 | 31 |
| Ba | 137 | 0.007 | ug/L | 0.001 | 7 | 19 | 40 | 4 |
| > Tb | 159 | | ug/L | | | 303177 | 301265 | 1 |
| Tl | 205 | 0.003 | ug/L | 0.002 | 57 | 64 | 131 | 30 |
| Pb | 208 | 0.004 | ug/L | 0.002 | 40 | 292 | 401 | 12 |
| Bi | 209 | | ug/L | | | 258422 | 259717 | 1 |
| Th | 232 | 0.008 | ug/L | 0.002 | 29 | 335 | 600 | 14 |
| U | 238 | 0.003 | ug/L | 0.001 | 54 | 49 | 147 | 37 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B-L REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:08:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

C

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 303357 | 0 |
| [Be | 9 | -0.004 | ug/L | 0.010 | 263 | 7 | 6 | 57 |
| C | 13 | | mg/L | | | 4338 | 3437 | 2 |
| Cl | 37 | | mg/L | | | 2253739 | 2165907 | 6 |
| [> Sc | 45 | | ug/L | | | 172956 | 176063 | 0 |
| V-1 | 51 | 0.560 | ug/L | 0.025 | 4 | 1268 | 5726 | 2 |
| V | 51 | 0.567 | ug/L | 0.012 | 2 | 3100 | 7735 | 0 |
| Cr | 52 | 0.126 | ug/L | 0.015 | 12 | 4104 | 5068 | 2 |
| Cr | 53 | 0.172 | ug/L | 0.060 | 34 | 1049 | 1215 | 4 |
| Mn | 55 | 22.741 | ug/L | 0.319 | 1 | 483 | 276190 | 0 |
| Co | 59 | 0.066 | ug/L | 0.004 | 6 | 33 | 673 | 6 |
| [> Ge | 72 | | ug/L | | | 266710 | 268935 | 0 |
| Ni | 60 | 0.069 | ug/L | 0.006 | 9 | 45 | 179 | 7 |
| Ni | 62 | 0.051 | ug/L | 0.008 | 16 | 42 | 58 | 4 |
| Cu | 63 | 0.120 | ug/L | 0.006 | 5 | 155 | 714 | 4 |
| Cu | 65 | 0.089 | ug/L | 0.019 | 21 | 68 | 273 | 15 |
| Zn | 66 | 0.538 | ug/L | 0.046 | 8 | 195 | 1011 | 7 |
| Zn | 67 | 0.421 | ug/L | 0.026 | 6 | 100 | 210 | 3 |
| Zn | 68 | 0.379 | ug/L | 0.063 | 16 | 4936 | 5395 | 1 |
| As-1 | 75 | 0.083 | ug/L | 0.013 | 15 | 396 | 522 | 4 |
| As | 75 | 0.010 | ug/L | 0.068 | 705 | 7197 | 7271 | 1 |
| Se | 82 | 0.002 | ug/L | 0.029 | 1213 | 0 | 0 | 947 |
| Se | 78 | -0.337 | ug/L | 0.289 | 85 | 7293 | 7237 | 0 |
| Mo | 98 | 0.104 | ug/L | 0.006 | 5 | 34 | 496 | 4 |
| Y | 89 | | ug/L | | | 220418 | 226614 | 0 |
| Kr | 83 | | ug/L | | | 204 | 202 | 2 |
| [> In | 115 | | ug/L | | | 277236 | 281744 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 44 | 54 | 70 | 8 |
| Cd | 111 | 0.013 | ug/L | 0.003 | 26 | 81 | 111 | 6 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 45 | 10 | 24 | 24 |
| Sb | 121 | -0.000 | ug/L | 0.001 | 333 | 135 | 134 | 7 |
| Sb | 123 | -0.003 | ug/L | 0.003 | 91 | 112 | 94 | 21 |
| Ba | 135 | 0.622 | ug/L | 0.032 | 5 | 17 | 1173 | 5 |
| Ba | 137 | 0.626 | ug/L | 0.005 | 0 | 19 | 1980 | 0 |
| [> Tb | 159 | | ug/L | | | 303177 | 305019 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 75 | 64 | 84 | 17 |
| Pb | 208 | 0.029 | ug/L | 0.002 | 6 | 292 | 1069 | 4 |
| Bi | 209 | | ug/L | | | 258422 | 261712 | 0 |
| Th | 232 | 0.000 | ug/L | 0.001 | 318 | 335 | 350 | 12 |
| U | 238 | 0.002 | ug/L | 0.000 | 8 | 49 | 131 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:15:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 298134 | 0 |
| [Be | 9 | 0.006 | ug/L | 0.019 | 345 | 7 | 10 | 69 |
| C | 13 | | mg/L | | | 4338 | 3770 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2155700 | 6 |
| > Sc | 45 | | ug/L | | | 172956 | 180263 | 0 |
| V-1 | 51 | 2.840 | ug/L | 0.009 | 0 | 1268 | 24363 | 0 |
| V | 51 | 2.819 | ug/L | 0.007 | 0 | 3100 | 26567 | 0 |
| Cr | 52 | 0.722 | ug/L | 0.019 | 2 | 4104 | 9503 | 1 |
| Cr | 53 | 0.787 | ug/L | 0.003 | 0 | 1049 | 1778 | 0 |
| Mn | 55 | 109.386 | ug/L | 1.065 | 0 | 483 | 1358258 | 0 |
| [Co | 59 | 0.216 | ug/L | 0.001 | 0 | 33 | 2185 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 265948 | 0 |
| Ni | 60 | 0.306 | ug/L | 0.017 | 5 | 45 | 635 | 5 |
| Ni | 62 | 0.326 | ug/L | 0.041 | 12 | 42 | 139 | 9 |
| Cu | 63 | 0.379 | ug/L | 0.024 | 6 | 155 | 1904 | 6 |
| Cu | 65 | 0.200 | ug/L | 0.014 | 7 | 68 | 523 | 6 |
| Zn | 66 | 1.156 | ug/L | 0.046 | 3 | 195 | 1925 | 3 |
| Zn | 67 | 1.205 | ug/L | 0.037 | 3 | 100 | 410 | 2 |
| Zn | 68 | 1.143 | ug/L | 0.073 | 6 | 4936 | 6169 | 0 |
| As-1 | 75 | 0.411 | ug/L | 0.031 | 7 | 396 | 992 | 4 |
| As | 75 | 0.350 | ug/L | 0.043 | 12 | 7197 | 7689 | 0 |
| Se | 82 | 0.037 | ug/L | 0.042 | 116 | 0 | 4 | 136 |
| Se | 78 | -0.203 | ug/L | 0.205 | 101 | 7293 | 7203 | 1 |
| [Mo | 98 | 0.525 | ug/L | 0.015 | 2 | 34 | 2332 | 2 |
| Y | 89 | | ug/L | | | 220418 | 228903 | 0 |
| Kr | 83 | | ug/L | | | 204 | 205 | 2 |
| > In | 115 | | ug/L | | | 277236 | 276677 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.000 | 13 | 54 | 76 | 3 |
| Cd | 111 | 0.012 | ug/L | 0.006 | 46 | 81 | 106 | 11 |
| Cd | 114 | 0.005 | ug/L | 0.001 | 29 | 10 | 33 | 20 |
| Sb | 121 | 0.009 | ug/L | 0.003 | 30 | 135 | 205 | 10 |
| Sb | 123 | 0.006 | ug/L | 0.000 | 6 | 112 | 151 | 1 |
| Ba | 135 | 2.955 | ug/L | 0.083 | 2 | 17 | 5404 | 2 |
| [Ba | 137 | 3.038 | ug/L | 0.039 | 1 | 19 | 9371 | 1 |
| > Tb | 159 | | ug/L | | | 303177 | 302095 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 59 | 64 | 77 | 11 |
| Pb | 208 | 0.044 | ug/L | 0.002 | 4 | 292 | 1442 | 2 |
| Bi | 209 | | ug/L | | | 258422 | 254912 | 0 |
| Th | 232 | 0.011 | ug/L | 0.001 | 10 | 335 | 717 | 4 |
| [U | 238 | 0.008 | ug/L | 0.001 | 8 | 49 | 361 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BDUP REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:23:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 301883 | 1 |
| [Be | 9 | -0.000 | ug/L | 0.005 | 1007 | 7 | 7 | 24 |
| C | 13 | | mg/L | | | 4338 | 3858 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 2130823 | 6 |
| [> Sc | 45 | | ug/L | | | 172956 | 180332 | 1 |
| V-1 | 51 | 2.622 | ug/L | 0.085 | 3 | 1268 | 22597 | 1 |
| V | 51 | 2.595 | ug/L | 0.073 | 2 | 3100 | 24712 | 1 |
| Cr | 52 | 0.694 | ug/L | 0.036 | 5 | 4104 | 9306 | 1 |
| Cr | 53 | 0.728 | ug/L | 0.033 | 4 | 1049 | 1728 | 1 |
| Mn | 55 | 102.041 | ug/L | 2.209 | 2 | 483 | 1267388 | 0 |
| Co | 59 | 0.181 | ug/L | 0.004 | 2 | 33 | 1832 | 2 |
| [> Ge | 72 | | ug/L | | | 266710 | 268460 | 1 |
| Ni | 60 | 0.314 | ug/L | 0.019 | 6 | 45 | 657 | 5 |
| Ni | 62 | 0.334 | ug/L | 0.022 | 6 | 42 | 143 | 5 |
| Cu | 63 | 0.416 | ug/L | 0.015 | 3 | 155 | 2092 | 2 |
| Cu | 65 | 0.235 | ug/L | 0.008 | 3 | 68 | 607 | 3 |
| Zn | 66 | 2.087 | ug/L | 0.020 | 0 | 195 | 3350 | 0 |
| Zn | 67 | 2.053 | ug/L | 0.144 | 7 | 100 | 633 | 6 |
| Zn | 68 | 1.893 | ug/L | 0.161 | 8 | 4936 | 7053 | 1 |
| As-1 | 75 | 0.388 | ug/L | 0.025 | 6 | 396 | 968 | 3 |
| As | 75 | 0.291 | ug/L | 0.076 | 25 | 7197 | 7675 | 0 |
| Se | 82 | 0.053 | ug/L | 0.059 | 111 | 0 | 6 | 124 |
| Se | 78 | -0.352 | ug/L | 0.266 | 75 | 7293 | 7218 | 0 |
| Mo | 98 | 0.488 | ug/L | 0.020 | 4 | 34 | 2189 | 3 |
| Y | 89 | | ug/L | | | 220418 | 228037 | 1 |
| Kr | 83 | | ug/L | | | 204 | 205 | 3 |
| [> In | 115 | | ug/L | | | 277236 | 279251 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 79 | 54 | 65 | 13 |
| Cd | 111 | 0.018 | ug/L | 0.011 | 61 | 81 | 120 | 18 |
| Cd | 114 | 0.014 | ug/L | 0.001 | 6 | 10 | 83 | 6 |
| Sb | 121 | 0.001 | ug/L | 0.001 | 45 | 135 | 147 | 4 |
| Sb | 123 | 0.002 | ug/L | 0.001 | 24 | 112 | 129 | 2 |
| Ba | 135 | 2.826 | ug/L | 0.021 | 0 | 17 | 5217 | 0 |
| Ba | 137 | 2.888 | ug/L | 0.063 | 2 | 19 | 8992 | 2 |
| [> Tb | 159 | | ug/L | | | 303177 | 304311 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 68 | 64 | 76 | 10 |
| Pb | 208 | 0.065 | ug/L | 0.000 | 0 | 292 | 2031 | 1 |
| Bi | 209 | | ug/L | | | 258422 | 255212 | 1 |
| Th | 232 | 0.008 | ug/L | 0.000 | 2 | 335 | 606 | 2 |
| U | 238 | 0.007 | ug/L | 0.000 | 3 | 49 | 324 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BSPK REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:30:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

OK

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 297135 | 0 |
| [Be | 9 | 5.160 | ug/L | 0.300 | 5 | 7 | 1866 | 5 |
| C | 13 | | mg/L | | | 4338 | 3885 | 1 |
| [Cl | 37 | | mg/L | | | 2253739 | 2059800 | 6 |
| > Sc | 45 | | ug/L | | | 172956 | 179136 | 0 |
| V-1 | 51 | 8.202 | ug/L | 0.015 | 0 | 1268 | 67455 | 0 |
| V | 51 | 8.242 | ug/L | 0.004 | 0 | 3100 | 70999 | 0 |
| Cr | 52 | 6.297 | ug/L | 0.028 | 0 | 4104 | 49556 | 0 |
| Cr | 53 | 6.531 | ug/L | 0.054 | 0 | 1049 | 6733 | 0 |
| Mn | 55 | 115.162 | ug/L | 1.638 | 1 | 483 | 1421139 | 1 |
| [Co | 59 | 5.546 | ug/L | 0.051 | 0 | 33 | 54795 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 262652 | 0 |
| Ni | 60 | 6.182 | ug/L | 0.086 | 1 | 45 | 11828 | 1 |
| Ni | 62 | 6.317 | ug/L | 0.037 | 0 | 42 | 1904 | 0 |
| Cu | 63 | 6.240 | ug/L | 0.046 | 0 | 155 | 28566 | 0 |
| Cu | 65 | 5.889 | ug/L | 0.039 | 0 | 68 | 13286 | 0 |
| Zn | 66 | 20.433 | ug/L | 0.247 | 1 | 195 | 30395 | 1 |
| Zn | 67 | 18.401 | ug/L | 0.339 | 1 | 100 | 4765 | 1 |
| Zn | 68 | 19.762 | ug/L | 0.176 | 0 | 4936 | 26165 | 0 |
| As-1 | 75 | 6.278 | ug/L | 0.154 | 2 | 396 | 9416 | 2 |
| As | 75 | 6.070 | ug/L | 0.096 | 1 | 7197 | 15877 | 0 |
| Se | 82 | 20.287 | ug/L | 0.311 | 1 | 0 | 2627 | 1 |
| Se | 78 | 18.924 | ug/L | 0.325 | 1 | 7293 | 13608 | 0 |
| [Mo | 98 | 0.519 | ug/L | 0.004 | 0 | 34 | 2277 | 0 |
| Y | 89 | | ug/L | | | 220418 | 228656 | 1 |
| Kr | 83 | | ug/L | | | 204 | 196 | 0 |
| > In | 115 | | ug/L | | | 277236 | 276369 | 0 |
| Ag | 107 | 3.507 | ug/L | 0.039 | 1 | 54 | 30983 | 1 |
| Cd | 111 | 5.877 | ug/L | 0.052 | 0 | 81 | 12512 | 0 |
| Cd | 114 | 5.681 | ug/L | 0.046 | 0 | 10 | 28884 | 1 |
| Sb | 121 | 0.001 | ug/L | 0.001 | 249 | 135 | 139 | 8 |
| Sb | 123 | -0.001 | ug/L | 0.002 | 226 | 112 | 106 | 14 |
| Ba | 135 | 8.436 | ug/L | 0.215 | 2 | 17 | 15376 | 2 |
| Ba | 137 | 8.595 | ug/L | 0.113 | 1 | 19 | 26448 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 304140 | 1 |
| Tl | 205 | 5.676 | ug/L | 0.054 | 0 | 64 | 119878 | 1 |
| Pb | 208 | 6.275 | ug/L | 0.071 | 1 | 292 | 167223 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 253904 | 0 |
| Th | 232 | 5.973 | ug/L | 0.118 | 1 | 335 | 203218 | 1 |
| [U | 238 | 6.000 | ug/L | 0.123 | 2 | 49 | 224491 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:37:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

C

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 298926 | 0 |
| [Be | 9 | -0.000 | ug/L | 0.005 | 2471 | 7 | 7 | 24 |
| C | 13 | | mg/L | | | 4338 | 4252 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2040090 | 7 |
| [> Sc | 45 | | ug/L | | | 172956 | 184206 | 1 |
| V-1 | 51 | 4.897 | ug/L | 0.101 | 2 | 1268 | 41950 | 1 |
| V | 51 | 4.813 | ug/L | 0.102 | 2 | 3100 | 43999 | 1 |
| Cr | 52 | 0.722 | ug/L | 0.004 | 0 | 4104 | 9709 | 1 |
| Cr | 53 | 0.714 | ug/L | 0.056 | 7 | 1049 | 1752 | 1 |
| Mn | 55 | 234.848 | ug/L | 0.616 | 0 | 483 | 2979483 | 1 |
| Co | 59 | 1.260 | ug/L | 0.034 | 2 | 33 | 12824 | 1 |
| [> Ge | 72 | | ug/L | | | 266710 | 263394 | 0 |
| Ni | 60 | 0.821 | ug/L | 0.031 | 3 | 45 | 1614 | 3 |
| Ni | 62 | 0.771 | ug/L | 0.072 | 9 | 42 | 270 | 8 |
| Cu | 63 | 0.595 | ug/L | 0.018 | 3 | 155 | 2871 | 2 |
| Cu | 65 | 0.410 | ug/L | 0.013 | 3 | 68 | 990 | 3 |
| Zn | 66 | 1.376 | ug/L | 0.029 | 2 | 195 | 2232 | 1 |
| Zn | 67 | 1.687 | ug/L | 0.105 | 6 | 100 | 528 | 4 |
| Zn | 68 | 1.495 | ug/L | 0.064 | 4 | 4936 | 6491 | 1 |
| As-1 | 75 | 7.510 | ug/L | 0.029 | 0 | 396 | 11218 | 0 |
| As | 75 | 7.396 | ug/L | 0.066 | 0 | 7197 | 17846 | 0 |
| Se | 82 | 0.148 | ug/L | 0.020 | 13 | 0 | 18 | 14 |
| Se | 78 | -0.120 | ug/L | 0.251 | 210 | 7293 | 7162 | 1 |
| Mo | 98 | 1.746 | ug/L | 0.025 | 1 | 34 | 7599 | 0 |
| Y | 89 | | ug/L | | | 220418 | 228759 | 0 |
| Kr | 83 | | ug/L | | | 204 | 201 | 1 |
| [> In | 115 | | ug/L | | | 277236 | 271544 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.002 | 20 | 54 | 115 | 11 |
| Cd | 111 | 0.040 | ug/L | 0.015 | 38 | 81 | 163 | 19 |
| Cd | 114 | 0.007 | ug/L | 0.001 | 10 | 10 | 43 | 7 |
| Sb | 121 | 0.034 | ug/L | 0.003 | 9 | 135 | 410 | 6 |
| Sb | 123 | 0.036 | ug/L | 0.004 | 11 | 112 | 334 | 6 |
| Ba | 135 | 6.936 | ug/L | 0.102 | 1 | 17 | 12425 | 0 |
| Ba | 137 | 7.017 | ug/L | 0.109 | 1 | 19 | 21219 | 1 |
| [> Tb | 159 | | ug/L | | | 303177 | 302834 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 41 | 64 | 85 | 10 |
| Pb | 208 | 0.064 | ug/L | 0.002 | 3 | 292 | 1990 | 2 |
| Bi | 209 | | ug/L | | | 258422 | 252076 | 0 |
| Th | 232 | 0.025 | ug/L | 0.002 | 6 | 335 | 1186 | 5 |
| U | 238 | 0.010 | ug/L | 0.001 | 6 | 49 | 435 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 C REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:45:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

CC

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 299175 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.003 | 62 | 7 | 10 | 12 |
| C | 13 | | mg/L | | | 4338 | 4204 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2010329 | 7 |
| [> Sc | 45 | | ug/L | | | 172956 | 182071 | 1 |
| V-1 | 51 | 6.857 | ug/L | 0.110 | 1 | 1268 | 57522 | 0 |
| V | 51 | 6.729 | ug/L | 0.120 | 1 | 3100 | 59508 | 0 |
| Cr | 52 | 0.867 | ug/L | 0.031 | 3 | 4104 | 10662 | 1 |
| Cr | 53 | 0.837 | ug/L | 0.053 | 6 | 1049 | 1839 | 1 |
| Mn | 55 | 67.027 | ug/L | 0.705 | 1 | 483 | 840788 | 0 |
| Co | 59 | 0.760 | ug/L | 0.007 | 0 | 33 | 7660 | 0 |
| [> Ge | 72 | | ug/L | | | 266710 | 262258 | 0 |
| Ni | 60 | 0.756 | ug/L | 0.008 | 1 | 45 | 1484 | 0 |
| Ni | 62 | 2.600 | ug/L | 0.375 | 14 | 42 | 807 | 13 |
| Cu | 63 | 1.879 | ug/L | 0.019 | 1 | 155 | 8697 | 1 |
| Cu | 65 | 1.616 | ug/L | 0.027 | 1 | 68 | 3689 | 1 |
| Zn | 66 | 2.600 | ug/L | 0.033 | 1 | 195 | 4029 | 1 |
| Zn | 67 | 2.675 | ug/L | 0.078 | 2 | 100 | 776 | 2 |
| Zn | 68 | 2.602 | ug/L | 0.052 | 1 | 4936 | 7654 | 0 |
| As-1 | 75 | 1.577 | ug/L | 0.016 | 1 | 396 | 2653 | 0 |
| As | 75 | 1.478 | ug/L | 0.041 | 2 | 7197 | 9214 | 0 |
| Se | 82 | 0.134 | ug/L | 0.077 | 57 | 0 | 16 | 59 |
| Se | 78 | -0.219 | ug/L | 0.146 | 66 | 7293 | 7098 | 0 |
| [Mo | 98 | 3.453 | ug/L | 0.027 | 0 | 34 | 14936 | 0 |
| Y | 89 | | ug/L | | | 220418 | 232097 | 0 |
| Kr | 83 | | ug/L | | | 204 | 204 | 6 |
| [> In | 115 | | ug/L | | | 277236 | 270976 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 9 | 54 | 103 | 5 |
| Cd | 111 | 0.039 | ug/L | 0.014 | 37 | 81 | 160 | 19 |
| Cd | 114 | 0.008 | ug/L | 0.001 | 9 | 10 | 51 | 7 |
| Sb | 121 | 0.083 | ug/L | 0.002 | 2 | 135 | 801 | 1 |
| Sb | 123 | 0.080 | ug/L | 0.002 | 2 | 112 | 609 | 2 |
| Ba | 135 | 2.800 | ug/L | 0.014 | 0 | 17 | 5016 | 0 |
| [Ba | 137 | 2.811 | ug/L | 0.036 | 1 | 19 | 8496 | 1 |
| [> Tb | 159 | | ug/L | | | 303177 | 300025 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 22 | 64 | 117 | 10 |
| Pb | 208 | 0.229 | ug/L | 0.002 | 0 | 292 | 6293 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 251052 | 0 |
| Th | 232 | 0.054 | ug/L | 0.002 | 3 | 335 | 2153 | 3 |
| [U | 238 | 0.014 | ug/L | 0.001 | 4 | 49 | 562 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 D REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:52:24

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

C6

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 297674 | 0 |
| [Be | 9 | 0.004 | ug/L | 0.005 | 121 | 7 | 9 | 19 |
| C | 13 | | mg/L | | | 4338 | 4215 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 1938834 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 181391 | 1 |
| V-1 | 51 | 8.177 | ug/L | 0.043 | 0 | 1268 | 68095 | 0 |
| V | 51 | 8.041 | ug/L | 0.065 | 0 | 3100 | 70217 | 0 |
| Cr | 52 | 1.514 | ug/L | 0.026 | 1 | 4104 | 15336 | 0 |
| Cr | 53 | 1.498 | ug/L | 0.096 | 6 | 1049 | 2411 | 2 |
| Mn | 55 | 271.773 | ug/L | 1.718 | 0 | 483 | 3395022 | 0 |
| Co | 59 | 0.999 | ug/L | 0.005 | 0 | 33 | 10025 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 259252 | 0 |
| Ni | 60 | 0.768 | ug/L | 0.023 | 3 | 45 | 1489 | 3 |
| Ni | 62 | 0.778 | ug/L | 0.091 | 11 | 42 | 267 | 10 |
| Cu | 63 | 0.607 | ug/L | 0.008 | 1 | 155 | 2880 | 1 |
| Cu | 65 | 0.301 | ug/L | 0.003 | 1 | 68 | 733 | 1 |
| Zn | 66 | 1.966 | ug/L | 0.061 | 3 | 195 | 3057 | 2 |
| Zn | 67 | 2.194 | ug/L | 0.118 | 5 | 100 | 647 | 5 |
| Zn | 68 | 1.911 | ug/L | 0.105 | 5 | 4936 | 6830 | 0 |
| As-1 | 75 | 2.181 | ug/L | 0.010 | 0 | 396 | 3479 | 0 |
| As | 75 | 2.098 | ug/L | 0.036 | 1 | 7197 | 9995 | 0 |
| Se | 82 | 0.137 | ug/L | 0.030 | 21 | 0 | 16 | 22 |
| Se | 78 | -0.099 | ug/L | 0.128 | 129 | 7293 | 7056 | 0 |
| [Mo | 98 | 0.955 | ug/L | 0.014 | 1 | 34 | 4109 | 2 |
| Y | 89 | | ug/L | | | 220418 | 230550 | 1 |
| Kr | 83 | | ug/L | | | 204 | 205 | 2 |
| > In | 115 | | ug/L | | | 277236 | 268251 | 0 |
| Ag | 107 | 0.007 | ug/L | 0.002 | 24 | 54 | 112 | 12 |
| Cd | 111 | 0.033 | ug/L | 0.013 | 40 | 81 | 146 | 18 |
| Cd | 114 | 0.004 | ug/L | 0.001 | 32 | 10 | 28 | 21 |
| Sb | 121 | 0.076 | ug/L | 0.007 | 9 | 135 | 736 | 7 |
| Sb | 123 | 0.074 | ug/L | 0.008 | 10 | 112 | 564 | 7 |
| Ba | 135 | 3.965 | ug/L | 0.051 | 1 | 17 | 7025 | 1 |
| [Ba | 137 | 3.998 | ug/L | 0.033 | 0 | 19 | 11950 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 300223 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.000 | 73 | 64 | 72 | 9 |
| Pb | 208 | 0.034 | ug/L | 0.001 | 2 | 292 | 1193 | 2 |
| Bi | 209 | | ug/L | | | 258422 | 250784 | 0 |
| Th | 232 | 0.026 | ug/L | 0.000 | 1 | 335 | 1208 | 1 |
| [U | 238 | 0.009 | ug/L | 0.000 | 3 | 49 | 376 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 H REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 16:59:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

CC

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 294393 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.011 | 222 | 7 | 9 | 39 |
| C | 13 | | mg/L | | | 4338 | 4372 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 1945783 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 180631 | 0 |
| V-1 | 51 | 9.822 | ug/L | 0.030 | 0 | 1268 | 81190 | 0 |
| V | 51 | 9.657 | ug/L | 0.025 | 0 | 3100 | 83333 | 0 |
| Cr | 52 | 1.169 | ug/L | 0.035 | 2 | 4104 | 12766 | 1 |
| Cr | 53 | 1.183 | ug/L | 0.023 | 1 | 1049 | 2127 | 1 |
| Mn | 55 | 77.918 | ug/L | 1.437 | 1 | 483 | 969629 | 1 |
| [Co | 59 | 0.549 | ug/L | 0.002 | 0 | 33 | 5500 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 259443 | 0 |
| Ni | 60 | 1.135 | ug/L | 0.013 | 1 | 45 | 2181 | 1 |
| Ni | 62 | 1.054 | ug/L | 0.060 | 5 | 42 | 348 | 5 |
| Cu | 63 | 1.225 | ug/L | 0.025 | 2 | 155 | 5662 | 1 |
| Cu | 65 | 0.818 | ug/L | 0.029 | 3 | 68 | 1879 | 3 |
| Zn | 66 | 2.155 | ug/L | 0.048 | 2 | 195 | 3335 | 2 |
| Zn | 67 | 2.384 | ug/L | 0.112 | 4 | 100 | 695 | 4 |
| Zn | 68 | 2.154 | ug/L | 0.095 | 4 | 4936 | 7095 | 1 |
| As-1 | 75 | 0.971 | ug/L | 0.017 | 1 | 396 | 1764 | 1 |
| As | 75 | 0.939 | ug/L | 0.087 | 9 | 7197 | 8343 | 1 |
| Se | 82 | 0.278 | ug/L | 0.052 | 18 | 0 | 34 | 19 |
| Se | 78 | 0.165 | ug/L | 0.285 | 172 | 7293 | 7150 | 1 |
| [Mo | 98 | 1.504 | ug/L | 0.030 | 1 | 34 | 6455 | 2 |
| Y | 89 | | ug/L | | | 220418 | 229805 | 0 |
| Kr | 83 | | ug/L | | | 204 | 199 | 0 |
| > In | 115 | | ug/L | | | 277236 | 269198 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.001 | 40 | 54 | 75 | 12 |
| Cd | 111 | 0.019 | ug/L | 0.019 | 100 | 81 | 118 | 32 |
| Cd | 114 | 0.005 | ug/L | 0.001 | 18 | 10 | 34 | 13 |
| Sb | 121 | 0.043 | ug/L | 0.002 | 3 | 135 | 477 | 3 |
| Sb | 123 | 0.039 | ug/L | 0.001 | 3 | 112 | 352 | 2 |
| Ba | 135 | 4.051 | ug/L | 0.074 | 1 | 17 | 7202 | 1 |
| [Ba | 137 | 4.085 | ug/L | 0.081 | 1 | 19 | 12254 | 1 |
| > Tb | 159 | | ug/L | | | 303177 | 298797 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 24 | 64 | 123 | 11 |
| Pb | 208 | 0.045 | ug/L | 0.002 | 5 | 292 | 1458 | 4 |
| Bi | 209 | | ug/L | | | 258422 | 247905 | 0 |
| Th | 232 | 0.022 | ug/L | 0.002 | 9 | 335 | 1055 | 6 |
| [U | 238 | 0.033 | ug/L | 0.000 | 1 | 49 | 1269 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 I REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:05:59

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 279385 | 0 |
| [Be | 9 | 0.050 | ug/L | 0.016 | 32 | 7 | 24 | 22 |
| C | 13 | | mg/L | | | 4338 | 4932 | 0 |
| Cl | 37 | | mg/L | | | 2253739 | 2393838 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 179487 | 1 |
| V-1 | 51 | 12.404 | ug/L | 0.026 | 0 | 1268 | 101537 | 1 |
| V | 51 | 12.348 | ug/L | 0.022 | 0 | 3100 | 104984 | 1 |
| Cr | 52 | 3.155 | ug/L | 0.052 | 1 | 4104 | 27002 | 2 |
| Cr | 53 | 3.537 | ug/L | 0.081 | 2 | 1049 | 4153 | 2 |
| Mn | 55 | 52.833 | ug/L | 0.518 | 0 | 483 | 653558 | 2 |
| Co | 59 | 0.966 | ug/L | 0.015 | 1 | 33 | 9594 | 1 |
| > Ge | 72 | | ug/L | | | 266710 | 255418 | 0 |
| Ni | 60 | 1.661 | ug/L | 0.020 | 1 | 45 | 3121 | 1 |
| Ni | 62 | 16.921 | ug/L | 0.593 | 3 | 42 | 4893 | 3 |
| Cu | 63 | 5.347 | ug/L | 0.077 | 1 | 155 | 23827 | 1 |
| Cu | 65 | 3.724 | ug/L | 0.038 | 1 | 68 | 8195 | 1 |
| Zn | 66 | 2.854 | ug/L | 0.028 | 0 | 195 | 4289 | 1 |
| Zn | 67 | 3.165 | ug/L | 0.080 | 2 | 100 | 876 | 1 |
| Zn | 68 | 2.835 | ug/L | 0.049 | 1 | 4936 | 7699 | 1 |
| As-1 | 75 | 0.998 | ug/L | 0.030 | 3 | 396 | 1774 | 2 |
| As | 75 | 1.056 | ug/L | 0.025 | 2 | 7197 | 8380 | 0 |
| Se | 82 | 0.713 | ug/L | 0.051 | 7 | 0 | 89 | 7 |
| Se | 78 | 1.088 | ug/L | 0.228 | 20 | 7293 | 7344 | 0 |
| Mo | 98 | 11.959 | ug/L | 0.014 | 0 | 34 | 50298 | 0 |
| Y | 89 | | ug/L | | | 220418 | 251650 | 1 |
| Kr | 83 | | ug/L | | | 204 | 211 | 3 |
| > In | 115 | | ug/L | | | 277236 | 262168 | 1 |
| Ag | 107 | 0.018 | ug/L | 0.002 | 10 | 54 | 201 | 8 |
| Cd | 111 | 0.058 | ug/L | 0.001 | 2 | 81 | 193 | 2 |
| Cd | 114 | 0.023 | ug/L | 0.001 | 2 | 10 | 122 | 2 |
| Sb | 121 | 0.097 | ug/L | 0.004 | 4 | 135 | 886 | 4 |
| Sb | 123 | 0.096 | ug/L | 0.005 | 5 | 112 | 685 | 5 |
| Ba | 135 | 10.184 | ug/L | 0.071 | 0 | 17 | 17608 | 1 |
| Ba | 137 | 10.261 | ug/L | 0.139 | 1 | 19 | 29948 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 289043 | 1 |
| Tl | 205 | 0.003 | ug/L | 0.000 | 10 | 64 | 115 | 4 |
| Pb | 208 | 0.510 | ug/L | 0.005 | 1 | 292 | 13165 | 2 |
| Bi | 209 | | ug/L | | | 258422 | 231601 | 2 |
| Th | 232 | 0.213 | ug/L | 0.004 | 1 | 335 | 7184 | 0 |
| U | 238 | 0.201 | ug/L | 0.006 | 2 | 49 | 7191 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN68 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:12:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

21

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 271394 | 1 |
| [Be | 9 | -0.012 | ug/L | 0.008 | 65 | 7 | 3 | 78 |
| C | 13 | | mg/L | | | 4338 | 6559 | 2 |
| Cl | 37 | | mg/L | | | 2253739 | 2927720 | 2 |
| > Sc | 45 | | ug/L | | | 172956 | 171817 | 2 |
| V-1 | 51 | 0.334 | ug/L | 0.026 | 7 | 1268 | 3850 | 7 |
| V | 51 | 1.130 | ug/L | 0.033 | 2 | 3100 | 11994 | 4 |
| Cr | 52 | 0.404 | ug/L | 0.014 | 3 | 4104 | 6863 | 3 |
| Cr | 53 | 2.819 | ug/L | 0.029 | 1 | 1049 | 3380 | 3 |
| Mn | 55 | 15.199 | ug/L | 0.156 | 1 | 483 | 180275 | 1 |
| Co | 59 | 0.154 | ug/L | 0.007 | 4 | 33 | 1487 | 3 |
| > Ge | 72 | | ug/L | | | 266710 | 252499 | 2 |
| Ni | 60 | 1.910 | ug/L | 0.056 | 2 | 45 | 3544 | 4 |
| Ni | 62 | 1.238 | ug/L | 0.117 | 9 | 42 | 390 | 6 |
| Cu | 63 | 1.288 | ug/L | 0.009 | 0 | 155 | 5787 | 2 |
| Cu | 65 | 0.690 | ug/L | 0.016 | 2 | 68 | 1554 | 4 |
| Zn | 66 | 1.602 | ug/L | 0.027 | 1 | 195 | 2461 | 1 |
| Zn | 67 | 2.165 | ug/L | 0.059 | 2 | 100 | 623 | 4 |
| Zn | 68 | 2.569 | ug/L | 0.121 | 4 | 4936 | 7335 | 2 |
| As-1 | 75 | 0.661 | ug/L | 0.013 | 1 | 396 | 1288 | 3 |
| As | 75 | 1.023 | ug/L | 0.042 | 4 | 7197 | 8238 | 2 |
| Se | 82 | 0.248 | ug/L | 0.101 | 40 | 0 | 30 | 43 |
| Se | 78 | 2.030 | ug/L | 0.227 | 11 | 7293 | 7568 | 2 |
| Mo | 98 | 0.423 | ug/L | 0.014 | 3 | 34 | 1791 | 2 |
| Y | 89 | | ug/L | | | 220418 | 215505 | 3 |
| Kr | 83 | | ug/L | | | 204 | 223 | 2 |
| > In | 115 | | ug/L | | | 277236 | 265181 | 2 |
| Ag | 107 | 0.006 | ug/L | 0.002 | 27 | 54 | 100 | 12 |
| Cd | 111 | 0.002 | ug/L | 0.008 | 379 | 81 | 81 | 17 |
| Cd | 114 | 0.012 | ug/L | 0.002 | 14 | 10 | 68 | 14 |
| Sb | 121 | 0.052 | ug/L | 0.005 | 9 | 135 | 544 | 7 |
| Sb | 123 | 0.050 | ug/L | 0.002 | 3 | 112 | 410 | 0 |
| Ba | 135 | 30.474 | ug/L | 0.315 | 1 | 17 | 53252 | 1 |
| Ba | 137 | 30.632 | ug/L | 0.194 | 0 | 19 | 90397 | 1 |
| > Tb | 159 | | ug/L | | | 303177 | 287714 | 1 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 22 | 64 | 115 | 11 |
| Pb | 208 | 0.039 | ug/L | 0.001 | 3 | 292 | 1266 | 3 |
| Bi | 209 | | ug/L | | | 258422 | 231463 | 1 |
| Th | 232 | 0.001 | ug/L | 0.001 | 97 | 335 | 347 | 9 |
| U | 238 | 0.272 | ug/L | 0.007 | 2 | 49 | 9676 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:19:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 272085 | 0 |
| [Be | 9 | 45.938 | ug/L | 1.013 | 2 | 7 | 15157 | 1 |
| C | 13 | | mg/L | | | 4338 | 3847 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2249845 | 0 |
| [> Sc | 45 | | ug/L | | | 172956 | 160081 | 0 |
| V-1 | 51 | 51.186 | ug/L | 0.490 | 0 | 1268 | 370020 | 0 |
| V | 51 | 51.216 | ug/L | 0.457 | 0 | 3100 | 379313 | 0 |
| Cr | 52 | 51.046 | ug/L | 0.554 | 1 | 4104 | 331974 | 1 |
| Cr | 53 | 51.146 | ug/L | 0.567 | 1 | 1049 | 40484 | 1 |
| Mn | 55 | 50.462 | ug/L | 0.301 | 0 | 483 | 556709 | 0 |
| Co | 59 | 49.196 | ug/L | 0.378 | 0 | 33 | 434112 | 0 |
| [> Ge | 72 | | ug/L | | | 266710 | 251822 | 0 |
| Ni | 60 | 51.272 | ug/L | 0.491 | 0 | 45 | 93742 | 0 |
| Ni | 62 | 50.213 | ug/L | 0.432 | 0 | 42 | 14235 | 0 |
| Cu | 63 | 50.761 | ug/L | 0.337 | 0 | 155 | 221769 | 0 |
| Cu | 65 | 49.409 | ug/L | 0.177 | 0 | 68 | 106404 | 0 |
| Zn | 66 | 50.433 | ug/L | 0.537 | 1 | 195 | 71660 | 1 |
| Zn | 67 | 48.119 | ug/L | 0.621 | 1 | 100 | 11792 | 1 |
| Zn | 68 | 49.518 | ug/L | 0.694 | 1 | 4936 | 55842 | 1 |
| As-1 | 75 | 50.007 | ug/L | 0.113 | 0 | 396 | 69300 | 0 |
| As | 75 | 49.637 | ug/L | 0.216 | 0 | 7197 | 75705 | 0 |
| Se | 82 | 55.378 | ug/L | 0.443 | 0 | 0 | 6877 | 0 |
| Se | 78 | 53.754 | ug/L | 0.781 | 1 | 7293 | 24387 | 1 |
| [Mo | 98 | 57.124 | ug/L | 0.357 | 0 | 34 | 236740 | 0 |
| Y | 89 | | ug/L | | | 220418 | 207128 | 0 |
| Kr | 83 | | ug/L | | | 204 | 212 | 9 |
| [> In | 115 | | ug/L | | | 277236 | 260007 | 1 |
| Ag | 107 | 53.538 | ug/L | 0.562 | 1 | 54 | 444268 | 0 |
| Cd | 111 | 52.450 | ug/L | 0.582 | 1 | 81 | 104446 | 0 |
| Cd | 114 | 51.040 | ug/L | 0.253 | 0 | 10 | 244039 | 1 |
| Sb | 121 | 49.090 | ug/L | 0.361 | 0 | 135 | 381684 | 1 |
| Sb | 123 | 48.313 | ug/L | 0.584 | 1 | 112 | 287733 | 0 |
| Ba | 135 | 48.182 | ug/L | 0.823 | 1 | 17 | 82543 | 0 |
| Ba | 137 | 48.736 | ug/L | 0.691 | 1 | 19 | 140999 | 0 |
| [> Tb | 159 | | ug/L | | | 303177 | 277957 | 0 |
| Tl | 205 | 51.850 | ug/L | 0.340 | 0 | 64 | 1000405 | 0 |
| Pb | 208 | 56.995 | ug/L | 0.239 | 0 | 292 | 1385900 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 236613 | 0 |
| Th | 232 | 53.353 | ug/L | 0.390 | 0 | 335 | 1656628 | 0 |
| [U | 238 | 53.602 | ug/L | 0.499 | 0 | 49 | 1832804 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:27:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 273205 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.008 | 1047 | 7 | 7 | 36 |
| C | 13 | | mg/L | | | 4338 | 4025 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 2255124 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 157974 | 0 |
| V-1 | 51 | 0.014 | ug/L | 0.013 | 88 | 1268 | 1260 | 6 |
| V | 51 | 0.033 | ug/L | 0.007 | 22 | 3100 | 3067 | 1 |
| Cr | 52 | 0.052 | ug/L | 0.009 | 18 | 4104 | 4078 | 2 |
| Cr | 53 | 0.105 | ug/L | 0.027 | 25 | 1049 | 1038 | 2 |
| Mn | 55 | -0.005 | ug/L | 0.002 | 35 | 483 | 384 | 4 |
| Co | 59 | 0.000 | ug/L | 0.001 | 160 | 33 | 35 | 18 |
| > Ge | 72 | | ug/L | | | 266710 | 244324 | 0 |
| Ni | 60 | 0.000 | ug/L | 0.004 | 1750 | 45 | 41 | 18 |
| Ni | 62 | 0.077 | ug/L | 0.030 | 39 | 42 | 60 | 13 |
| Cu | 63 | 0.001 | ug/L | 0.001 | 114 | 155 | 146 | 3 |
| Cu | 65 | 0.008 | ug/L | 0.004 | 48 | 68 | 79 | 9 |
| Zn | 66 | 0.022 | ug/L | 0.007 | 34 | 195 | 208 | 4 |
| Zn | 67 | 0.036 | ug/L | 0.043 | 120 | 100 | 100 | 9 |
| Zn | 68 | 0.397 | ug/L | 0.034 | 8 | 4936 | 4919 | 0 |
| As-1 | 75 | 0.039 | ug/L | 0.010 | 24 | 396 | 415 | 2 |
| As | 75 | 0.547 | ug/L | 0.017 | 3 | 7197 | 7329 | 0 |
| Se | 82 | -0.002 | ug/L | 0.057 | 3137 | 0 | 0 | 788 |
| Se | 78 | 2.319 | ug/L | 0.018 | 0 | 7293 | 7414 | 0 |
| Mo | 98 | 0.006 | ug/L | 0.003 | 46 | 34 | 57 | 20 |
| Y | 89 | | ug/L | | | 220418 | 205827 | 1 |
| Kr | 83 | | ug/L | | | 204 | 207 | 1 |
| > In | 115 | | ug/L | | | 277236 | 258094 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.002 | 78 | 54 | 72 | 23 |
| Cd | 111 | 0.007 | ug/L | 0.001 | 16 | 81 | 88 | 3 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 26 | 10 | 21 | 14 |
| Sb | 121 | 0.017 | ug/L | 0.004 | 26 | 135 | 253 | 12 |
| Sb | 123 | 0.014 | ug/L | 0.004 | 27 | 112 | 188 | 11 |
| Ba | 135 | 0.003 | ug/L | 0.005 | 183 | 17 | 21 | 42 |
| Ba | 137 | 0.002 | ug/L | 0.001 | 40 | 19 | 24 | 10 |
| > Tb | 159 | | ug/L | | | 303177 | 276798 | 0 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 64 | 64 | 91 | 22 |
| Pb | 208 | 0.002 | ug/L | 0.001 | 37 | 292 | 323 | 5 |
| Bi | 209 | | ug/L | | | 258422 | 238942 | 0 |
| Th | 232 | 0.006 | ug/L | 0.002 | 36 | 335 | 489 | 13 |
| U | 238 | 0.002 | ug/L | 0.001 | 61 | 49 | 97 | 32 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:43:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 288810 | 1 |
| [Be | 9 | -0.009 | ug/L | 0.008 | 85 | 7 | 4 | 56 |
| C | 13 | | mg/L | | | 4338 | 5761 | 2 |
| Cl | 37 | | mg/L | | | 2253739 | 2331725 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 173675 | 1 |
| V-1 | 51 | 0.299 | ug/L | 0.003 | 1 | 1268 | 3613 | 1 |
| V | 51 | 0.356 | ug/L | 0.022 | 6 | 3100 | 5947 | 2 |
| Cr | 52 | 0.638 | ug/L | 0.008 | 1 | 4104 | 8571 | 1 |
| Cr | 53 | 0.789 | ug/L | 0.077 | 9 | 1049 | 1714 | 3 |
| Mn | 55 | 47.805 | ug/L | 0.444 | 0 | 483 | 572193 | 1 |
| [Co | 59 | 0.246 | ug/L | 0.004 | 1 | 33 | 2393 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 260682 | 0 |
| Ni | 60 | 2.197 | ug/L | 0.013 | 0 | 45 | 4200 | 0 |
| Ni | 62 | 2.059 | ug/L | 0.138 | 6 | 42 | 644 | 6 |
| Cu | 63 | 9.045 | ug/L | 0.148 | 1 | 155 | 41028 | 1 |
| Cu | 65 | 8.792 | ug/L | 0.081 | 0 | 68 | 19654 | 0 |
| Zn | 66 | 93.085 | ug/L | 0.227 | 0 | 195 | 136755 | 0 |
| Zn | 67 | 81.522 | ug/L | 0.395 | 0 | 100 | 20613 | 0 |
| Zn | 68 | 90.198 | ug/L | 0.488 | 0 | 4936 | 101333 | 0 |
| As-1 | 75 | 0.482 | ug/L | 0.007 | 1 | 396 | 1074 | 0 |
| As | 75 | 0.736 | ug/L | 0.032 | 4 | 7197 | 8092 | 0 |
| Se | 82 | 0.043 | ug/L | 0.087 | 203 | 0 | 4 | 234 |
| Se | 78 | 1.211 | ug/L | 0.090 | 7 | 7293 | 7537 | 0 |
| [Mo | 98 | 2.254 | ug/L | 0.008 | 0 | 34 | 9703 | 0 |
| Y | 89 | | ug/L | | | 220418 | 221962 | 1 |
| Kr | 83 | | ug/L | | | 204 | 209 | 0 |
| > In | 115 | | ug/L | | | 277236 | 274155 | 0 |
| Ag | 107 | 0.002 | ug/L | 0.001 | 46 | 54 | 67 | 9 |
| Cd | 111 | 0.105 | ug/L | 0.011 | 10 | 81 | 301 | 7 |
| Cd | 114 | 0.107 | ug/L | 0.004 | 4 | 10 | 548 | 3 |
| Sb | 121 | 1.728 | ug/L | 0.003 | 0 | 135 | 14295 | 0 |
| Sb | 123 | 1.680 | ug/L | 0.016 | 0 | 112 | 10661 | 0 |
| Ba | 135 | 28.013 | ug/L | 0.383 | 1 | 17 | 50613 | 0 |
| [Ba | 137 | 28.640 | ug/L | 0.379 | 1 | 19 | 87381 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 300066 | 1 |
| Tl | 205 | 0.004 | ug/L | 0.000 | 10 | 64 | 145 | 7 |
| Pb | 208 | 0.618 | ug/L | 0.010 | 1 | 292 | 16500 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 252915 | 0 |
| Th | 232 | 0.005 | ug/L | 0.000 | 7 | 335 | 508 | 2 |
| [U | 238 | 0.005 | ug/L | 0.000 | 8 | 49 | 218 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN21 EPOST REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:50:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 290206 | 1 |
| [Be | 9 | 23.804 | ug/L | 0.243 | 1 | 7 | 8381 | 1 |
| C | 13 | | mg/L | | | 4338 | 6036 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 2374028 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 173769 | 0 |
| V-1 | 51 | 26.024 | ug/L | 0.191 | 0 | 1268 | 204850 | 1 |
| V | 51 | 26.178 | ug/L | 0.103 | 0 | 3100 | 211980 | 0 |
| Cr | 52 | 27.338 | ug/L | 0.287 | 1 | 4104 | 194914 | 1 |
| Cr | 53 | 27.726 | ug/L | 0.233 | 0 | 1049 | 24305 | 0 |
| Mn | 55 | 73.306 | ug/L | 0.889 | 1 | 483 | 877622 | 0 |
| Co | 59 | 25.643 | ug/L | 0.323 | 1 | 33 | 245636 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 261177 | 1 |
| Ni | 60 | 29.402 | ug/L | 0.182 | 0 | 45 | 55770 | 0 |
| Ni | 62 | 28.981 | ug/L | 0.407 | 1 | 42 | 8538 | 1 |
| Cu | 63 | 36.214 | ug/L | 0.088 | 0 | 155 | 164137 | 1 |
| Cu | 65 | 35.520 | ug/L | 0.513 | 1 | 68 | 79344 | 0 |
| Zn | 66 | 173.902 | ug/L | 1.800 | 1 | 195 | 255783 | 0 |
| Zn | 67 | 154.973 | ug/L | 1.291 | 0 | 100 | 39170 | 1 |
| Zn | 68 | 166.522 | ug/L | 2.025 | 1 | 4936 | 183326 | 0 |
| As-1 | 75 | 26.866 | ug/L | 0.384 | 1 | 396 | 38790 | 0 |
| As | 75 | 26.138 | ug/L | 0.405 | 1 | 7197 | 44677 | 0 |
| Se | 82 | 85.946 | ug/L | 1.476 | 1 | 0 | 11069 | 0 |
| Se | 78 | 81.026 | ug/L | 1.640 | 2 | 7293 | 34497 | 0 |
| Mo | 98 | 2.275 | ug/L | 0.015 | 0 | 34 | 9810 | 0 |
| Y | 89 | | ug/L | | | 220418 | 221489 | 0 |
| Kr | 83 | | ug/L | | | 204 | 204 | 5 |
| > In | 115 | | ug/L | | | 277236 | 277291 | 0 |
| Ag | 107 | 25.849 | ug/L | 0.105 | 0 | 54 | 228810 | 0 |
| Cd | 111 | 26.186 | ug/L | 0.185 | 0 | 81 | 55659 | 1 |
| Cd | 114 | 25.564 | ug/L | 0.668 | 2 | 10 | 130352 | 2 |
| Sb | 121 | 1.702 | ug/L | 0.043 | 2 | 135 | 14243 | 2 |
| Sb | 123 | 1.706 | ug/L | 0.026 | 1 | 112 | 10945 | 0 |
| Ba | 135 | 53.230 | ug/L | 0.335 | 0 | 17 | 97266 | 0 |
| Ba | 137 | 53.282 | ug/L | 0.831 | 1 | 19 | 164410 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 299931 | 0 |
| Tl | 205 | 26.606 | ug/L | 0.198 | 0 | 64 | 553965 | 0 |
| Pb | 208 | 29.840 | ug/L | 0.177 | 0 | 292 | 783106 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 255697 | 0 |
| Th | 232 | 27.823 | ug/L | 0.236 | 0 | 335 | 932373 | 0 |
| U | 238 | 27.707 | ug/L | 0.233 | 0 | 49 | 1022338 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 D REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 17:57:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 295692 | 281371 | 0 |
| [| Be | 9 | 0.030 | ug/L | 0.006 | 18 | 7 | 17 | 10 |
| | C | 13 | | mg/L | | | 4338 | 4371 | 1 |
| | Cl | 37 | | mg/L | | | 2253739 | 2493893 | 0 |
| [> | Sc | 45 | | ug/L | | | 172956 | 176433 | 0 |
| [| V-1 | 51 | 22.337 | ug/L | 0.194 | 0 | 1268 | 178695 | 0 |
| | V | 51 | 22.186 | ug/L | 0.165 | 0 | 3100 | 182889 | 0 |
| | Cr | 52 | 4.796 | ug/L | 0.112 | 2 | 4104 | 38168 | 1 |
| | Cr | 53 | 5.383 | ug/L | 0.031 | 0 | 1049 | 5654 | 0 |
| | Mn | 55 | 67.342 | ug/L | 1.091 | 1 | 483 | 818630 | 1 |
| | Co | 59 | 0.188 | ug/L | 0.005 | 2 | 33 | 1859 | 1 |
| [> | Ge | 72 | | ug/L | | | 266710 | 253671 | 0 |
| [| Ni | 60 | 0.411 | ug/L | 0.007 | 1 | 45 | 799 | 1 |
| | Ni | 62 | 0.635 | ug/L | 0.018 | 2 | 42 | 221 | 2 |
| | Cu | 63 | 0.943 | ug/L | 0.027 | 2 | 155 | 4296 | 3 |
| | Cu | 65 | 0.263 | ug/L | 0.006 | 2 | 68 | 635 | 1 |
| | Zn | 66 | 2.223 | ug/L | 0.068 | 3 | 195 | 3359 | 2 |
| | Zn | 67 | 3.529 | ug/L | 0.058 | 1 | 100 | 960 | 1 |
| | Zn | 68 | 2.511 | ug/L | 0.077 | 3 | 4936 | 7308 | 0 |
| | As-1 | 75 | 1.674 | ug/L | 0.015 | 0 | 396 | 2701 | 0 |
| | As | 75 | 1.932 | ug/L | 0.041 | 2 | 7197 | 9547 | 0 |
| | Se | 82 | 0.340 | ug/L | 0.099 | 29 | 0 | 41 | 29 |
| | Se | 78 | 1.621 | ug/L | 0.146 | 9 | 7293 | 7468 | 0 |
| [| Mo | 98 | 0.330 | ug/L | 0.005 | 1 | 34 | 1410 | 1 |
| | Y | 89 | | ug/L | | | 220418 | 249878 | 0 |
| | Kr | 83 | | ug/L | | | 204 | 213 | 2 |
| [> | In | 115 | | ug/L | | | 277236 | 262674 | 1 |
| [| Ag | 107 | 0.014 | ug/L | 0.002 | 11 | 54 | 167 | 9 |
| | Cd | 111 | 0.037 | ug/L | 0.018 | 49 | 81 | 152 | 24 |
| | Cd | 114 | 0.004 | ug/L | 0.002 | 45 | 10 | 28 | 30 |
| | Sb | 121 | 0.007 | ug/L | 0.001 | 11 | 135 | 182 | 1 |
| | Sb | 123 | 0.006 | ug/L | 0.001 | 21 | 112 | 142 | 4 |
| | Ba | 135 | 2.854 | ug/L | 0.086 | 3 | 17 | 4956 | 2 |
| [| Ba | 137 | 2.870 | ug/L | 0.037 | 1 | 19 | 8406 | 0 |
| [> | Tb | 159 | | ug/L | | | 303177 | 288755 | 1 |
| [| Tl | 205 | 0.002 | ug/L | 0.000 | 18 | 64 | 105 | 9 |
| | Pb | 208 | 0.046 | ug/L | 0.002 | 3 | 292 | 1440 | 3 |
| | Bi | 209 | | ug/L | | | 258422 | 237344 | 0 |
| | Th | 232 | 0.036 | ug/L | 0.001 | 4 | 335 | 1490 | 3 |
| [| U | 238 | 0.011 | ug/L | 0.000 | 3 | 49 | 435 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:04:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

C

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 257732 | 2 |
| [Be | 9 | 0.029 | ug/L | 0.003 | 11 | 7 | 15 | 9 |
| C | 13 | | mg/L | | | 4338 | 4111 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2346412 | 1 |
| [> Sc | 45 | | ug/L | | | 172956 | 159348 | 3 |
| V-1 | 51 | 22.065 | ug/L | 0.128 | 0 | 1268 | 159441 | 3 |
| V | 51 | 21.962 | ug/L | 0.079 | 0 | 3100 | 163545 | 3 |
| Cr | 52 | 4.711 | ug/L | 0.027 | 0 | 4104 | 33923 | 3 |
| Cr | 53 | 5.433 | ug/L | 0.142 | 2 | 1049 | 5145 | 4 |
| Mn | 55 | 65.806 | ug/L | 0.227 | 0 | 483 | 722540 | 4 |
| Co | 59 | 0.179 | ug/L | 0.002 | 1 | 33 | 1604 | 4 |
| [> Ge | 72 | | ug/L | | | 266710 | 233292 | 3 |
| Ni | 60 | 0.418 | ug/L | 0.012 | 2 | 45 | 746 | 2 |
| Ni | 62 | 0.772 | ug/L | 0.066 | 8 | 42 | 239 | 6 |
| Cu | 63 | 0.954 | ug/L | 0.020 | 2 | 155 | 3994 | 4 |
| Cu | 65 | 0.294 | ug/L | 0.007 | 2 | 68 | 647 | 5 |
| Zn | 66 | 1.651 | ug/L | 0.028 | 1 | 195 | 2338 | 2 |
| Zn | 67 | 2.834 | ug/L | 0.123 | 4 | 100 | 726 | 5 |
| Zn | 68 | 2.305 | ug/L | 0.085 | 3 | 4936 | 6522 | 2 |
| As-1 | 75 | 1.660 | ug/L | 0.036 | 2 | 396 | 2466 | 2 |
| As | 75 | 2.253 | ug/L | 0.138 | 6 | 7197 | 9189 | 1 |
| Se | 82 | 0.329 | ug/L | 0.124 | 37 | 0 | 37 | 37 |
| Se | 78 | 3.164 | ug/L | 0.605 | 19 | 7293 | 7330 | 0 |
| Mo | 98 | 0.343 | ug/L | 0.022 | 6 | 34 | 1346 | 3 |
| Y | 89 | | ug/L | | | 220418 | 224557 | 2 |
| Kr | 83 | | ug/L | | | 204 | 211 | 3 |
| [> In | 115 | | ug/L | | | 277236 | 241593 | 3 |
| Ag | 107 | 0.009 | ug/L | 0.001 | 10 | 54 | 113 | 9 |
| Cd | 111 | 0.016 | ug/L | 0.028 | 168 | 81 | 100 | 48 |
| Cd | 114 | 0.003 | ug/L | 0.000 | 10 | 10 | 21 | 3 |
| Sb | 121 | 0.005 | ug/L | 0.001 | 24 | 135 | 155 | 8 |
| Sb | 123 | 0.003 | ug/L | 0.004 | 105 | 112 | 116 | 15 |
| Ba | 135 | 2.681 | ug/L | 0.024 | 0 | 17 | 4282 | 3 |
| Ba | 137 | 2.687 | ug/L | 0.010 | 0 | 19 | 7240 | 3 |
| [> Tb | 159 | | ug/L | | | 303177 | 265355 | 2 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 6 | 64 | 67 | 2 |
| Pb | 208 | 0.033 | ug/L | 0.001 | 3 | 292 | 1021 | 3 |
| Bi | 209 | | ug/L | | | 258422 | 218468 | 2 |
| Th | 232 | 0.036 | ug/L | 0.002 | 5 | 335 | 1351 | 6 |
| U | 238 | 0.010 | ug/L | 0.001 | 9 | 49 | 381 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 G REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:11:54

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 277992 | 1 |
| [Be | 9 | -0.004 | ug/L | 0.006 | 183 | 7 | 6 | 34 |
| C | 13 | | mg/L | | | 4338 | 3594 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 2064453 | 6 |
| [> Sc | 45 | | ug/L | | | 172956 | 167734 | 0 |
| V-1 | 51 | 0.598 | ug/L | 0.019 | 3 | 1268 | 5746 | 1 |
| V | 51 | 0.610 | ug/L | 0.015 | 2 | 3100 | 7703 | 0 |
| Cr | 52 | 0.062 | ug/L | 0.006 | 10 | 4104 | 4401 | 1 |
| Cr | 53 | 0.130 | ug/L | 0.035 | 27 | 1049 | 1123 | 3 |
| Mn | 55 | 64.866 | ug/L | 0.808 | 1 | 483 | 749720 | 1 |
| [Co | 59 | 0.208 | ug/L | 0.002 | 0 | 33 | 1957 | 1 |
| [> Ge | 72 | | ug/L | | | 266710 | 248774 | 0 |
| Ni | 60 | 0.574 | ug/L | 0.010 | 1 | 45 | 1078 | 1 |
| Ni | 62 | 0.589 | ug/L | 0.051 | 8 | 42 | 204 | 6 |
| Cu | 63 | 0.341 | ug/L | 0.012 | 3 | 155 | 1614 | 3 |
| Cu | 65 | 0.218 | ug/L | 0.013 | 5 | 68 | 528 | 5 |
| Zn | 66 | 1.021 | ug/L | 0.036 | 3 | 195 | 1611 | 2 |
| Zn | 67 | 0.972 | ug/L | 0.024 | 2 | 100 | 327 | 1 |
| Zn | 68 | 1.141 | ug/L | 0.144 | 12 | 4936 | 5767 | 1 |
| As-1 | 75 | 2.125 | ug/L | 0.027 | 1 | 396 | 3263 | 0 |
| As | 75 | 2.431 | ug/L | 0.084 | 3 | 7197 | 10046 | 0 |
| Se | 82 | 0.056 | ug/L | 0.051 | 90 | 0 | 6 | 100 |
| Se | 78 | 1.484 | ug/L | 0.299 | 20 | 7293 | 7280 | 0 |
| [Mo | 98 | 0.402 | ug/L | 0.010 | 2 | 34 | 1678 | 2 |
| Y | 89 | | ug/L | | | 220418 | 209975 | 1 |
| Kr | 83 | | ug/L | | | 204 | 199 | 0 |
| [> In | 115 | | ug/L | | | 277236 | 262558 | 0 |
| Ag | 107 | -0.002 | ug/L | 0.001 | 24 | 54 | 32 | 13 |
| Cd | 111 | 0.007 | ug/L | 0.008 | 102 | 81 | 92 | 16 |
| Cd | 114 | 0.005 | ug/L | 0.002 | 32 | 10 | 33 | 23 |
| Sb | 121 | 0.001 | ug/L | 0.002 | 287 | 135 | 133 | 10 |
| Sb | 123 | -0.001 | ug/L | 0.001 | 127 | 112 | 100 | 7 |
| Ba | 135 | 1.322 | ug/L | 0.027 | 2 | 17 | 2303 | 2 |
| [Ba | 137 | 1.337 | ug/L | 0.048 | 3 | 19 | 3923 | 3 |
| [> Tb | 159 | | ug/L | | | 303177 | 283407 | 1 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 16 | 64 | 122 | 8 |
| Pb | 208 | 0.019 | ug/L | 0.001 | 6 | 292 | 750 | 4 |
| Bi | 209 | | ug/L | | | 258422 | 239301 | 0 |
| Th | 232 | -0.005 | ug/L | 0.000 | 3 | 335 | 140 | 5 |
| [U | 238 | 0.007 | ug/L | 0.001 | 8 | 49 | 285 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ60 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:19:45

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

*rem
Be Pb*

| | Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | | ug/L | | | 295692 | 266024 | 3 |
| [| Be | 9 | 0.029 | ug/L | 0.014 | 47 | 7 | 16 | 30 |
| | C | 13 | | mg/L | | | 4338 | 7762 | 0 |
| | Cl | 37 | | mg/L | | | 2253739 | 3156960 | 2 |
| [> | Sc | 45 | | ug/L | | | 172956 | 197313 | 4 |
| [| V-1 | 51 | 12.060 | ug/L | 0.235 | 1 | 1268 | 108499 | 2 |
| [| V | 51 | 12.628 | ug/L | 0.192 | 1 | 3100 | 117889 | 3 |
| [| Cr | 52 | 2.729 | ug/L | 0.068 | 2 | 4104 | 26291 | 2 |
| [| Cr | 53 | 5.014 | ug/L | 0.053 | 1 | 1049 | 5973 | 5 |
| [| Mn | 55 | 111.080 | ug/L | 2.036 | 1 | 483 | 1508934 | 3 |
| [| Co | 59 | 0.171 | ug/L | 0.006 | 3 | 33 | 1894 | 5 |
| [> | Ge | 72 | | ug/L | | | 266710 | 246532 | 3 |
| [| Ni | 60 | 0.551 | ug/L | 0.044 | 8 | 45 | 1028 | 10 |
| [| Ni | 62 | 0.990 | ug/L | 0.035 | 3 | 42 | 313 | 6 |
| [| Cu | 63 | 1.914 | ug/L | 0.003 | 0 | 155 | 8325 | 3 |
| [| Cu | 65 | 0.551 | ug/L | 0.023 | 4 | 68 | 1224 | 0 |
| [| Zn | 66 | 2.809 | ug/L | 0.122 | 4 | 195 | 4081 | 7 |
| [| Zn | 67 | 3.491 | ug/L | 0.112 | 3 | 100 | 924 | 6 |
| [| Zn | 68 | 3.603 | ug/L | 0.021 | 0 | 4936 | 8207 | 3 |
| [| As-1 | 75 | 3.811 | ug/L | 0.008 | 0 | 396 | 5508 | 3 |
| [| As | 75 | 3.985 | ug/L | 0.202 | 5 | 7197 | 12063 | 1 |
| [| Se | 82 | 0.987 | ug/L | 0.085 | 8 | 0 | 119 | 10 |
| [| Se | 78 | 2.029 | ug/L | 0.796 | 39 | 7293 | 7382 | 0 |
| [| Mo | 98 | 0.759 | ug/L | 0.022 | 2 | 34 | 3113 | 6 |
| | Y | 89 | | ug/L | | | 220418 | 242073 | 5 |
| | Kr | 83 | | ug/L | | | 204 | 216 | 7 |
| [> | In | 115 | | ug/L | | | 277236 | 253753 | 4 |
| [| Ag | 107 | 0.023 | ug/L | 0.000 | 1 | 54 | 237 | 2 |
| [| Cd | 111 | 0.076 | ug/L | 0.035 | 46 | 81 | 221 | 31 |
| [| Cd | 114 | 0.094 | ug/L | 0.004 | 4 | 10 | 448 | 8 |
| [| Sb | 121 | 0.091 | ug/L | 0.006 | 6 | 135 | 815 | 2 |
| [| Sb | 123 | 0.087 | ug/L | 0.006 | 6 | 112 | 610 | 2 |
| [| Ba | 135 | 6.631 | ug/L | 0.080 | 1 | 17 | 11098 | 2 |
| [| Ba | 137 | 6.766 | ug/L | 0.069 | 1 | 19 | 19127 | 4 |
| [> | Tb | 159 | | ug/L | | | 303177 | 280473 | 3 |
| [| Tl | 205 | 0.002 | ug/L | 0.001 | 34 | 64 | 88 | 11 |
| [| Pb | 208 | 0.040 | ug/L | 0.001 | 2 | 292 | 1245 | 1 |
| [| Bi | 209 | | ug/L | | | 258422 | 224995 | 3 |
| [| Th | 232 | 0.050 | ug/L | 0.001 | 1 | 335 | 1862 | 2 |
| [| U | 238 | 0.018 | ug/L | 0.001 | 3 | 49 | 651 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ60 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:26:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

rem all
Be *Be*
4.2

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 140075 | 1 |
| [Be | 9 | 0.027 | ug/L | 0.019 | 70 | 7 | 8 | 37 |
| C | 13 | | mg/L | | | 4338 | 3922 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 72630291 | 3 |
| [> Sc | 45 | | ug/L | | | 172956 | 129900 | 4 |
| V-1 | 51 | -3.266 | ug/L | 0.200 | 6 | 1268 | -18171 | 10 |
| V | 51 | 32.456 | ug/L | 0.533 | 1 | 3100 | 195855 | 3 |
| Cr | 52 | 1.346 | ug/L | 0.094 | 7 | 4104 | 10119 | 9 |
| Cr | 53 | 109.755 | ug/L | 1.021 | 0 | 1049 | 69588 | 4 |
| Mn | 55 | 2168.613 | ug/L | 7.965 | 0 | 483 | 19396664 | 4 |
| Co | 59 | 0.904 | ug/L | 0.017 | 1 | 33 | 6502 | 6 |
| [> Ge | 72 | | ug/L | | | 266710 | 141249 | 4 |
| Ni | 60 | 8.864 | ug/L | 0.148 | 1 | 45 | 9114 | 6 |
| Ni | 62 | 724.886 | ug/L | 69.667 | 9 | 42 | 114649 | 5 |
| Cu | 63 | 241.766 | ug/L | 10.675 | 4 | 155 | 591397 | 0 |
| Cu | 65 | 6.008 | ug/L | 0.145 | 2 | 68 | 7293 | 6 |
| Zn | 66 | 8.684 | ug/L | 0.193 | 2 | 195 | 7002 | 2 |
| Zn | 67 | 22.851 | ug/L | 2.750 | 12 | 100 | 3158 | 7 |
| Zn | 68 | 10.733 | ug/L | 0.412 | 3 | 4936 | 8840 | 6 |
| As-1 | 75 | 1.537 | ug/L | 0.407 | 26 | 396 | 1402 | 24 |
| As | 75 | 2.659 | ug/L | 0.261 | 9 | 7197 | 5880 | 4 |
| Se | 82 | -141.112 | ug/L | 14.220 | 10 | 0 | -9812 | 8 |
| Se | 78 | 14.521 | ug/L | 1.646 | 11 | 7293 | 6505 | 0 |
| Mo | 98 | 0.174 | ug/L | 0.018 | 10 | 34 | 421 | 7 |
| Y | 89 | | ug/L | | | 220418 | 123010 | 2 |
| Kr | 83 | | ug/L | | | 204 | 10652 | 7 |
| [> In | 115 | | ug/L | | | 277236 | 143352 | 3 |
| Ag | 107 | 0.021 | ug/L | 0.005 | 25 | 54 | 126 | 22 |
| Cd | 111 | -3.901 | ug/L | 1.053 | 27 | 81 | -4232 | 26 |
| Cd | 114 | 0.036 | ug/L | 0.005 | 13 | 10 | 101 | 10 |
| Sb | 121 | 0.020 | ug/L | 0.002 | 11 | 135 | 155 | 9 |
| Sb | 123 | 0.127 | ug/L | 0.011 | 8 | 112 | 474 | 10 |
| Ba | 135 | 340.026 | ug/L | 0.921 | 0 | 17 | 321144 | 3 |
| Ba | 137 | 340.969 | ug/L | 2.386 | 0 | 19 | 543812 | 2 |
| [> Tb | 159 | | ug/L | | | 303177 | 140557 | 1 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 20 | 64 | 73 | 13 |
| Pb | 208 | 0.042 | ug/L | 0.004 | 10 | 292 | 649 | 6 |
| Bi | 209 | | ug/L | | | 258422 | 107573 | 1 |
| Th | 232 | 0.021 | ug/L | 0.004 | 17 | 335 | 491 | 14 |
| U | 238 | 0.017 | ug/L | 0.001 | 3 | 49 | 315 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ60 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:33:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

*new
Be Bb*

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 247570 | 3 |
| [Be | 9 | 0.011 | ug/L | 0.016 | 143 | 7 | 10 | 50 |
| C | 13 | | mg/L | | | 4338 | 5931 | 2 |
| Cl | 37 | | mg/L | | | 2253739 | 9955064 | 3 |
| [> Sc | 45 | | ug/L | | | 172956 | 176877 | 3 |
| [V-1 | 51 | 0.012 | ug/L | 0.114 | 970 | 1268 | 1376 | 63 |
| [V | 51 | 7.883 | ug/L | 0.082 | 1 | 3100 | 67174 | 2 |
| [Cr | 52 | 0.631 | ug/L | 0.017 | 2 | 4104 | 8679 | 2 |
| [Cr | 53 | 24.542 | ug/L | 0.344 | 1 | 1049 | 22022 | 3 |
| [Mn | 55 | 112.637 | ug/L | 1.007 | 0 | 483 | 1372680 | 4 |
| [Co | 59 | 0.303 | ug/L | 0.010 | 3 | 33 | 2989 | 6 |
| [> Ge | 72 | | ug/L | | | 266710 | 235235 | 3 |
| [Ni | 60 | 1.394 | ug/L | 0.026 | 1 | 45 | 2419 | 5 |
| [Ni | 62 | 78.126 | ug/L | 3.820 | 4 | 42 | 20691 | 8 |
| [Cu | 63 | 11.640 | ug/L | 0.507 | 4 | 155 | 47655 | 7 |
| [Cu | 65 | 1.741 | ug/L | 0.052 | 2 | 68 | 3562 | 6 |
| [Zn | 66 | 5.122 | ug/L | 0.035 | 0 | 195 | 6954 | 4 |
| [Zn | 67 | 7.447 | ug/L | 0.254 | 3 | 100 | 1781 | 6 |
| [Zn | 68 | 5.564 | ug/L | 0.192 | 3 | 4936 | 9722 | 1 |
| [As-1 | 75 | 1.231 | ug/L | 0.022 | 1 | 396 | 1934 | 3 |
| [As | 75 | 1.114 | ug/L | 0.150 | 13 | 7197 | 7788 | 0 |
| [Se | 82 | 3.947 | ug/L | 0.156 | 3 | 0 | 457 | 6 |
| [Se | 78 | 4.361 | ug/L | 0.636 | 14 | 7293 | 7755 | 1 |
| [Mo | 98 | 1.472 | ug/L | 0.020 | 1 | 34 | 5729 | 4 |
| [Y | 89 | | ug/L | | | 220418 | 206977 | 4 |
| [Kr | 83 | | ug/L | | | 204 | 300 | 4 |
| [> In | 115 | | ug/L | | | 277236 | 242683 | 3 |
| [Ag | 107 | U 0.051 | ug/L | 0.001 | 2 | 54 | 441 | 3 |
| [Cd | 111 | -0.109 | ug/L | 0.095 | 87 | 81 | -127 | 133 |
| [Cd | 114 | 0.175 | ug/L | 0.003 | 1 | 10 | 789 | 1 |
| [Sb | 121 | U 0.065 | ug/L | 0.002 | 3 | 135 | 590 | 5 |
| [Sb | 123 | U 0.064 | ug/L | 0.008 | 12 | 112 | 452 | 8 |
| [Ba | 135 | 28.479 | ug/L | 0.372 | 1 | 17 | 45552 | 3 |
| [Ba | 137 | 28.723 | ug/L | 0.451 | 1 | 19 | 77575 | 3 |
| [> Tb | 159 | | ug/L | | | 303177 | 254572 | 3 |
| [Tl | 205 | U 0.008 | ug/L | 0.001 | 9 | 64 | 187 | 8 |
| [Pb | 208 | U 0.185 | ug/L | 0.004 | 2 | 292 | 4370 | 2 |
| [Bi | 209 | | ug/L | | | 258422 | 195971 | 2 |
| [Th | 232 | -0.002 | ug/L | 0.001 | 30 | 335 | 211 | 8 |
| [U | 238 | 0.005 | ug/L | 0.001 | 13 | 49 | 182 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ60 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:40:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 141505 | 3 |
| [Be | 9 | 0.017 | ug/L | 0.024 | 139 | 7 | 6 | 60 |
| C | 13 | | mg/L | | | 4338 | 4092 | 2 |
| Cl | 37 | | mg/L | | | 2253739 | 67848752 | 0 |
| > Sc | 45 | | ug/L | | | 172956 | 123708 | 1 |
| V-1 | 51 | -3.108 | ug/L | 0.290 | 9 | 1268 | -16416 | 11 |
| V | 51 | 31.092 | ug/L | 0.268 | 0 | 3100 | 178832 | 1 |
| Cr | 52 | 1.929 | ug/L | 0.066 | 3 | 4104 | 12515 | 1 |
| Cr | 53 | 105.684 | ug/L | 1.295 | 1 | 1049 | 63853 | 2 |
| Mn | 55 | 2554.705 | ug/L | 33.293 | 1 | 483 | 21765738 | 2 |
| [Co | 59 | 0.963 | ug/L | 0.023 | 2 | 33 | 6590 | 3 |
| > Ge | 72 | | ug/L | | | 266710 | 137745 | 2 |
| Ni | 60 | 9.469 | ug/L | 0.230 | 2 | 45 | 9491 | 4 |
| Ni | 62 | 1695.268 | ug/L | 474.768 | 28 | 42 | 262997 | 29 |
| Cu | 63 | 364.767 | ug/L | 94.520 | 25 | 155 | 873847 | 27 |
| Cu | 65 | 5.664 | ug/L | 0.518 | 9 | 68 | 6709 | 10 |
| Zn | 66 | 8.927 | ug/L | 0.246 | 2 | 195 | 7020 | 2 |
| Zn | 67 | 28.377 | ug/L | 1.010 | 3 | 100 | 3826 | 5 |
| Zn | 68 | 12.382 | ug/L | 0.242 | 1 | 4936 | 9548 | 0 |
| As-1 | 75 | 1.267 | ug/L | 0.641 | 50 | 396 | 1162 | 41 |
| As | 75 | 3.725 | ug/L | 0.806 | 21 | 7197 | 6548 | 10 |
| Se | 82 | -190.603 | ug/L | 30.280 | 15 | 0 | -12975 | 17 |
| Se | 78 | 19.419 | ug/L | 0.776 | 3 | 7293 | 7225 | 2 |
| [Mo | 98 | 0.616 | ug/L | 0.011 | 1 | 34 | 1413 | 3 |
| Y | 89 | | ug/L | | | 220418 | 121219 | 2 |
| Kr | 83 | | ug/L | | | 204 | 13751 | 16 |
| > In | 115 | | ug/L | | | 277236 | 142399 | 3 |
| Ag | 107 | 0.013 | ug/L | 0.002 | 13 | 54 | 86 | 11 |
| Cd | 111 | -3.660 | ug/L | 2.437 | 66 | 81 | -3920 | 65 |
| Cd | 114 | 0.015 | ug/L | 0.003 | 17 | 10 | 45 | 18 |
| Sb | 121 | 0.016 | ug/L | 0.003 | 21 | 135 | 137 | 7 |
| Sb | 123 | 0.116 | ug/L | 0.002 | 1 | 112 | 435 | 3 |
| Ba | 135 | 432.701 | ug/L | 2.412 | 0 | 17 | 406029 | 4 |
| [Ba | 137 | 433.693 | ug/L | 0.971 | 0 | 19 | 687238 | 3 |
| > Tb | 159 | | ug/L | | | 303177 | 143041 | 4 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 12 | 64 | 44 | 7 |
| Pb | 208 | 0.035 | ug/L | 0.001 | 3 | 292 | 578 | 3 |
| Bi | 209 | | ug/L | | | 258422 | 108978 | 3 |
| Th | 232 | 0.001 | ug/L | 0.001 | 99 | 335 | 170 | 9 |
| [U | 238 | 0.133 | ug/L | 0.002 | 1 | 49 | 2360 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ60 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:47:02

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

rem Be Pb

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 293191 | 0 |
| [Be | 9 | 0.722 | ug/L | 0.038 | 5 | 7 | 264 | 4 |
| C | 13 | | mg/L | | | 4338 | 10710 | 0 |
| Cl | 37 | | mg/L | | | 2253739 | 3771950 | 1 |
| > Sc | 45 | | ug/L | | | 172956 | 267605 | 1 |
| V-1 | 51 | 90.867 | ug/L | 1.474 | 1 | 1268 | 1096411 | 0 |
| V | 51 | 92.097 | ug/L | 1.664 | 1 | 3100 | 1136234 | 0 |
| Cr | 52 | 21.746 | ug/L | 0.262 | 1 | 4104 | 240030 | 0 |
| Cr | 53 | 29.613 | ug/L | 0.923 | 3 | 1049 | 39858 | 1 |
| Mn | 55 | 215.610 | ug/L | 2.064 | 0 | 483 | 3973600 | 0 |
| [Co | 59 | 0.425 | ug/L | 0.009 | 2 | 33 | 6313 | 0 |
| > Ge | 72 | | ug/L | | | 266710 | 303148 | 0 |
| Ni | 60 | 3.472 | ug/L | 0.026 | 0 | 45 | 7689 | 0 |
| Ni | 62 | 224.905 | ug/L | 35.819 | 15 | 42 | 76565 | 15 |
| Cu | 63 | 34.407 | ug/L | 1.689 | 4 | 155 | 180994 | 4 |
| Cu | 65 | 20.644 | ug/L | 0.165 | 0 | 68 | 53563 | 0 |
| Zn | 66 | 14.247 | ug/L | 0.120 | 0 | 195 | 24528 | 1 |
| Zn | 67 | 30.931 | ug/L | 0.561 | 1 | 100 | 9165 | 1 |
| Zn | 68 | 20.413 | ug/L | 0.142 | 0 | 4936 | 31009 | 0 |
| As-1 | 75 | 37.281 | ug/L | 0.147 | 0 | 396 | 62308 | 0 |
| As | 75 | 36.553 | ug/L | 0.203 | 0 | 7197 | 69267 | 0 |
| Se | 82 | 1.767 | ug/L | 0.118 | 6 | 0 | 263 | 7 |
| Se | 78 | 0.472 | ug/L | 0.206 | 43 | 7293 | 8475 | 0 |
| [Mo | 98 | 1.448 | ug/L | 0.012 | 0 | 34 | 7263 | 1 |
| Y | 89 | | ug/L | | | 220418 | 912494 | 0 |
| Kr | 83 | | ug/L | | | 204 | 344 | 4 |
| > In | 115 | | ug/L | | | 277236 | 297607 | 0 |
| Ag | 107 | 0.200 | ug/L | 0.002 | 1 | 54 | 1958 | 0 |
| Cd | 111 | 1.882 | ug/L | 0.035 | 1 | 81 | 4374 | 1 |
| Cd | 114 | 1.320 | ug/L | 0.008 | 0 | 10 | 7235 | 0 |
| Sb | 121 | 3.807 | ug/L | 0.061 | 1 | 135 | 34015 | 1 |
| Sb | 123 | 3.784 | ug/L | 0.014 | 0 | 112 | 25910 | 0 |
| Ba | 135 | 367.051 | ug/L | 5.816 | 1 | 17 | 719704 | 0 |
| [Ba | 137 | 370.941 | ug/L | 3.759 | 1 | 19 | 1228379 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 326987 | 0 |
| Tl | 205 | 0.015 | ug/L | 0.001 | 7 | 64 | 399 | 6 |
| Pb | 208 | 2.704 | ug/L | 0.014 | 0 | 292 | 77637 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 248539 | 0 |
| Th | 232 | 0.827 | ug/L | 0.005 | 0 | 335 | 30562 | 0 |
| [U | 238 | 0.307 | ug/L | 0.001 | 0 | 49 | 12392 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 18:53:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 295692 | 324760 | 2 |
| [Be | 9 | 44.551 | ug/L | 1.467 | 3 | 7 | 17539 | 1 |
| C | 13 | | mg/L | | | 4338 | 4282 | 1 |
| Cl | 37 | | mg/L | | | 2253739 | 2707706 | 1 |
| > Sc | 45 | | ug/L | | | 172956 | 197262 | 1 |
| V-1 | 51 | 51.145 | ug/L | 0.257 | 0 | 1268 | 455629 | 2 |
| V | 51 | 53.712 | ug/L | 0.440 | 0 | 3100 | 490060 | 2 |
| Cr | 52 | 50.758 | ug/L | 0.528 | 1 | 4104 | 406743 | 0 |
| Cr | 53 | 58.590 | ug/L | 0.537 | 0 | 1049 | 56972 | 1 |
| Mn | 55 | 51.163 | ug/L | 0.500 | 0 | 483 | 695553 | 2 |
| Co | 59 | 50.242 | ug/L | 0.079 | 0 | 33 | 546314 | 1 |
| > Ge | 72 | | ug/L | | | 266710 | 301736 | 1 |
| Ni | 60 | 52.496 | ug/L | 0.607 | 1 | 45 | 115012 | 2 |
| Ni | 62 | 113.986 | ug/L | 11.285 | 9 | 42 | 38630 | 8 |
| Cu | 63 | 55.336 | ug/L | 0.873 | 1 | 155 | 289657 | 1 |
| Cu | 65 | 51.303 | ug/L | 0.180 | 0 | 68 | 132375 | 1 |
| Zn | 66 | 51.720 | ug/L | 0.354 | 0 | 195 | 88044 | 0 |
| Zn | 67 | 50.593 | ug/L | 0.353 | 0 | 100 | 14850 | 1 |
| Zn | 68 | 49.255 | ug/L | 0.380 | 0 | 4936 | 66580 | 0 |
| As-1 | 75 | 50.247 | ug/L | 0.108 | 0 | 396 | 83434 | 1 |
| As | 75 | 49.355 | ug/L | 0.217 | 0 | 7197 | 90243 | 1 |
| Se | 82 | 56.229 | ug/L | 0.587 | 1 | 0 | 8366 | 0 |
| Se | 78 | 52.431 | ug/L | 0.573 | 1 | 7293 | 28704 | 1 |
| Mo | 98 | 57.322 | ug/L | 0.490 | 0 | 34 | 284642 | 1 |
| Y | 89 | | ug/L | | | 220418 | 249571 | 1 |
| Kr | 83 | | ug/L | | | 204 | 264 | 2 |
| > In | 115 | | ug/L | | | 277236 | 311329 | 0 |
| Ag | 107 | 53.498 | ug/L | 0.295 | 0 | 54 | 531602 | 0 |
| Cd | 111 | 52.058 | ug/L | 0.625 | 1 | 81 | 124149 | 1 |
| Cd | 114 | 50.922 | ug/L | 0.705 | 1 | 10 | 291555 | 1 |
| Sb | 121 | 48.018 | ug/L | 0.375 | 0 | 135 | 447086 | 1 |
| Sb | 123 | 47.227 | ug/L | 0.148 | 0 | 112 | 336834 | 0 |
| Ba | 135 | 47.075 | ug/L | 0.297 | 0 | 17 | 96580 | 0 |
| Ba | 137 | 47.442 | ug/L | 0.309 | 0 | 19 | 164370 | 0 |
| > Tb | 159 | | ug/L | | | 303177 | 320268 | 0 |
| Tl | 205 | 51.199 | ug/L | 0.841 | 1 | 64 | 1138155 | 0 |
| Pb | 208 | 56.405 | ug/L | 0.549 | 0 | 292 | 1580332 | 0 |
| Bi | 209 | | ug/L | | | 258422 | 269123 | 0 |
| Th | 232 | 53.136 | ug/L | 0.567 | 1 | 335 | 1901013 | 0 |
| U | 238 | 60.242 | ug/L | 1.024 | 1 | 49 | 2373248 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 01, 2010 19:01:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\040110C.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 295692 | 312150 | 1 |
| [Be | 9 | -0.004 | ug/L | 0.005 | 107 | 7 | 6 | 28 |
| C | 13 | | mg/L | | | 4338 | 4548 | 3 |
| Cl | 37 | | mg/L | | | 2253739 | 2734430 | 0 |
| [> Sc | 45 | | ug/L | | | 172956 | 194459 | 1 |
| V-1 | 51 | -0.074 | ug/L | 0.014 | 19 | 1268 | 779 | 15 |
| V | 51 | 2.064 | ug/L | 0.073 | 3 | 3100 | 21909 | 2 |
| Cr | 52 | 0.055 | ug/L | 0.008 | 15 | 4104 | 5041 | 0 |
| Cr | 53 | 6.551 | ug/L | 0.197 | 3 | 1049 | 7327 | 1 |
| Mn | 55 | 0.026 | ug/L | 0.003 | 9 | 483 | 897 | 4 |
| Co | 59 | 0.002 | ug/L | 0.001 | 47 | 33 | 55 | 15 |
| [> Ge | 72 | | ug/L | | | 266710 | 299230 | 0 |
| Ni | 60 | 0.007 | ug/L | 0.004 | 51 | 45 | 66 | 11 |
| Ni | 62 | 29.594 | ug/L | 1.964 | 6 | 42 | 9985 | 5 |
| Cu | 63 | 1.421 | ug/L | 0.123 | 8 | 155 | 7541 | 7 |
| Cu | 65 | 0.106 | ug/L | 0.015 | 14 | 68 | 347 | 10 |
| Zn | 66 | 0.153 | ug/L | 0.021 | 13 | 195 | 476 | 6 |
| Zn | 67 | 1.626 | ug/L | 0.150 | 9 | 100 | 582 | 8 |
| Zn | 68 | 0.203 | ug/L | 0.077 | 37 | 4936 | 5786 | 0 |
| As-1 | 75 | 0.017 | ug/L | 0.005 | 28 | 396 | 473 | 0 |
| As | 75 | 0.145 | ug/L | 0.056 | 38 | 7197 | 8313 | 0 |
| Se | 82 | -0.099 | ug/L | 0.105 | 106 | 0 | -15 | 100 |
| Se | 78 | 0.648 | ug/L | 0.203 | 31 | 7293 | 8433 | 0 |
| Mo | 98 | 0.002 | ug/L | 0.001 | 44 | 34 | 48 | 8 |
| Y | 89 | | ug/L | | | 220418 | 245556 | 0 |
| Kr | 83 | | ug/L | | | 204 | 260 | 5 |
| [> In | 115 | | ug/L | | | 277236 | 308007 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.000 | 40 | 54 | 65 | 2 |
| Cd | 111 | 0.012 | ug/L | 0.004 | 33 | 81 | 117 | 8 |
| Cd | 114 | 0.001 | ug/L | 0.000 | 36 | 10 | 15 | 8 |
| Sb | 121 | 0.013 | ug/L | 0.003 | 25 | 135 | 271 | 11 |
| Sb | 123 | 0.012 | ug/L | 0.005 | 43 | 112 | 210 | 17 |
| Ba | 135 | 0.011 | ug/L | 0.005 | 48 | 17 | 42 | 26 |
| Ba | 137 | 0.011 | ug/L | 0.001 | 12 | 19 | 59 | 8 |
| [> Tb | 159 | | ug/L | | | 303177 | 316270 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.000 | 581 | 64 | 65 | 14 |
| Pb | 208 | 0.004 | ug/L | 0.002 | 43 | 292 | 410 | 11 |
| Bi | 209 | | ug/L | | | 258422 | 267083 | 0 |
| Th | 232 | 0.003 | ug/L | 0.000 | 6 | 335 | 464 | 2 |
| U | 238 | 0.000 | ug/L | 0.000 | 82 | 49 | 69 | 21 |

Metals Analysis
Prep Logs

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.



Digestion Log

Analyst: DM
Matrix: Water

Date: 3-12-10
Block Temp: 92°C

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>REN</u> | | Prep Code: | | Comments |
|---------------|-------|------|----------------------------|----------------|----------------------------|----------------|--------------------------------|
| | | | Initial Wt (g) Vol (mL) | Final Vol (mL) | Initial Wt (g) Vol (mL) | Final Vol (mL) | |
| QN21 A | 1 | ✓ | 50.0 | 25.0 | | | |
| " ADUP | 1 | ✓ | | | | | |
| " ASPK | 1 | ✓ | | | | | |
| " B | 1 | ✓ | | | | | |
| " C | 1 | ✓ | | | | | |
| " D | 1 | ✓ | | | | | |
| " MBI | - | ✓ | | | | | |
| " MBSPK | - | ✓ | | | | | |
| " E | 1 | - | | | | | ← - FILTERED IN LAB ← |
| " EDUP | 1 | - | | | | | |
| " ESPK | 1 | - | | | | | |
| " F | 1 | - | | | | | |
| " G | 1 | - | | | | | |
| " H | 1 | - | | | | | |
| " MB2 | - | - | | | | | |
| " MB2SPK | - | - | 50.0 | 25.0 | | | |
| 3-12-10 DM | | | | | | | |

Chemical/Reagent ID:

HNO₃: MP1644 HCl: - H₂O₂: IS217 Tube Lot #: PP09L5162



CORRECTIVE ACTIONS - Inorganic Analyses

Criteria Flagged

ARI Project No.: QN21

Client Name: Floyd-Snyder

Date of Out-of-Control Event: 3.31.10

Method/Element: ICP-MS

Unacceptable Blank

Unacceptable Duplicate

Unacceptable Spike

Unacceptable Reference

| |
|---|
| |
| |
| ✓ |
| |

Prep Code: REN

Other: _____

Details of Problem/Recommended Corrective Action:

QN21 Esph As 126% R

Epost OK 105%

No Form in package

Samples Affected:

Corrective Action Taken:

Send [Signature] 4/5/10

Analyst: [Signature]

Supervisor: _____

Date: 4.1.10

Date: _____

General Chemistry Analysis
QC Summary Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21


prepared
by

Analytical Resources, Inc.

QN21 : 00563

METHOD BLANK RESULTS-CONVENTIONALS
QN21-Floyd-Snider




Matrix: Water
Data Release Authorized: 
Reported: 03/15/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | Blank |
|------------------------|----------------|-------|---------|
| Total Suspended Solids | 03/11/10 10:28 | mg/L | < 1.0 U |

LAB CONTROL RESULTS-CONVENTIONALS
QN21-Floyd-Snider




Matrix: Water
Data Release Authorized. 
Reported: 03/15/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | LCS | Spike Added | Recovery |
|------------------------|----------------|-------|------|-------------|----------|
| Total Suspended Solids | 03/11/10 10:28 | mg/L | 49.5 | 50.0 | 99.0% |

REPLICATE RESULTS-CONVENTIONALS
QN21-Floyd-Snider



Matrix: Water
Data Release Authorized: 
Reported: 03/15/10

Project: Lora Lakes Apartments
Event: NA
Date Sampled: 03/10/10
Date Received: 03/10/10

| Analyte | Date | Units | Sample | Replicate (s) | RPD/RSD |
|--|----------|-------|--------|---------------|---------|
| ARI ID: QN21A Client ID: CB31A031010COMP | | | | | |
| Total Suspended Solids | 03/11/10 | mg/L | 11.2 | 10.6 | 5.5% |

General Chemistry Analysis
Sample Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2



Data Release Authorized
Reported: 03/15/10
Date Received: 03/10/10
Page 1 of 1

A handwritten signature in black ink, appearing to be 'J. Snider', written over the 'Data Release Authorized' text.

QC Report No: QN21-Floyd-Snider
Project: Lora Lakes Apartments

| Client/ ARI ID | Date Sampled | Matrix | Analysis Date & Batch | RL | Result |
|-----------------------------------|-----------------|--------|----------------------------|-----|--------|
| CB31A031010COMP QN21A 10-5974 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 11.2 |
| CB4857031010COMP QN21B 10-5975 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 7.0 |
| CB1031010COMP QN21C 10-5976 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 4.4 |
| CB101031010COMP QN21D 10-5977 | 03/10/10 | Water | 03/11/10 10:28 031110#1 | 1.0 | 7.1 |

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

W
7-12-02

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 3/11/2010
ANALYST: CDE 10:28

Instrumentation
Drying Ovens: 12
Muffle Furnace: N/A
Analytical Balance: 1123230597

| SAMPLE ID | DISH # | filtered (mL) | TARE WT (grams) | DRY WT 104C (grams) | | | | 1000 DryWT (mg) | TSS (mg/L) | ASH WT 550C (grams) | | | | LOI (mg) | TVSS (mg/l) |
|--|--------|---------------|-----------------|---------------------|------|------|------|-----------------|------------|---------------------|---|---|---|----------|-------------|
| | | | | 1 | 2 | 3 | 4 | | | 1 | 2 | 3 | 4 | | |
| <p>LCS source: Cellulose, MP Biomedicals Lot# 6399J</p> <p>Loss on ignition (LOI) = TVSS (mg/L) calculated as: LOI (mg) = Dry wt(mg) - ((min ash wt - tare wt) * 1000) TVSS (mg/L) = LOI / mL sample * 1000 if LOI < 1mg, TVSS = < 1mg / mL sample * 1000 with "<" flag</p> | | | | | | | | | | | | | | | |
| <p>Cal Weight ID Date & Time Cal Wt (g) 10.0000</p> | | | | | | | | | | | | | | | |
| <p>3/11/10 13:17 CDB/11/10 14:52 CDE</p> | | | | | | | | | | | | | | | |
| <p>10.0000 Cal OK!</p> | | | | | | | | | | | | | | | |
| BLANK | | 1000 | 0.1077 | 0.1077 | STOP | STOP | 0.0 | < 1 | | | | | | | |
| LCS # 547-10 | | 1000 | 0.1092 | 0.1587 | STOP | STOP | 49.5 | 49.5 | 99.0% | % Recovery | | | | | |
| QM52 A2 | | 470 | 0.1130 | 0.1137 | STOP | STOP | 0.7 | < 2.1 | | | | | | | |
| QM52 A2 dup | | 470 | 0.1112 | 0.1119 | STOP | STOP | 0.6 | < 2.1 | | | | | | | |
| <p>RPD = NA</p> | | | | | | | | | | | | | | | |
| QN21 A10-12 | | 1000 | 0.1100 | 0.1214 | STOP | STOP | 11.2 | 11.2 | | | | | | | |
| QN21 A10-12 dup | | 1000 | 0.1072 | 0.1179 | STOP | STOP | 10.6 | 10.6 | | | | | | | |
| <p>RPD = 5.5%</p> | | | | | | | | | | | | | | | |
| QN21 B5-6 | | 1000 | 0.1098 | 0.1169 | STOP | STOP | 7.0 | 7.0 | | | | | | | |
| QN21 C5-6 | | 1000 | 0.1088 | 0.1132 | STOP | STOP | 4.4 | 4.4 | | | | | | | |
| QN21 D5-6 | | 1000 | 0.1093 | 0.1165 | STOP | STOP | 7.1 | 7.1 | | | | | | | |
| QN28 A1 | | 1000 | 0.1072 | 0.1174 | STOP | STOP | 10.1 | 10.1 | | | | | | | |
| QN28 B1 | | 1000 | 0.1111 | 0.1114 | STOP | STOP | 0.2 | < 1 | | | | | | | |
| <p>RPD = NA</p> | | | | | | | | | | | | | | | |

QN21 : 00570

Subcontracted Results
Dioxin/Furans 1613(Sub) Analyzed by Frontier Analytical Laboratory

prepared
for

Floyd Snider

Project: Lora Lakes Apartments

ARI JOB NO: QN21

prepared
by

Analytical Resources, Inc.

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6030**

Received on: **03/12/2010**

Project Due: **04/05/2010** Storage: **R2**

| FAL Sample ID | Dup | Client Project ID | Client Sample ID | Requested Method | Matrix | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|------------------|------------------|---------|---------------|---------------|--------------------|
| 6030-001-SA | 0 | QN21 | CB31A031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 06:16 am | 03/10/2011 |
| 6030-002-SA | 0 | QN21 | CB4857031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 05:51 am | 03/10/2011 |
| 6030-003-SA | 0 | QN21 | CB1031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 05:45 am | 03/10/2011 |
| 6030-004-SA | 0 | QN21 | CB101031010COMP | EPA 1613 D/F | Aqueous | 03/10/2010 | 06:51 am | 03/10/2011 |

EPA Method 1613
PCDD/F



FAL ID: 6030-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.00

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 1.85 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.32 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 1.67 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 1.90 | | - | 0.381 | Total TCDD | ND | 1.85 | |
| 1,2,3,7,8,9-HxCDD | ND | 1.78 | | - | 0.351 | Total PeCDD | ND | 1.32 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 3.31 | | - | 0.495 | Total HxCDD | ND | 1.90 | |
| OCDD | ND | 5.34 | | - | 1.02 | Total HpCDD | ND | 3.31 | |
| 2,3,7,8-TCDF | ND | 0.726 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 2.38 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 2.38 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 1.25 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 1.20 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 1.24 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 1.53 | | - | 0.185 | Total TCDF | ND | 0.726 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 1.28 | | - | 0.251 | Total PeCDF | ND | 2.38 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 1.59 | | - | 0.280 | Total HxCDF | ND | 1.53 | |
| OCDF | ND | 3.40 | | - | 0.451 | Total HpCDF | ND | 1.59 | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 76.9 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 66.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 65.4 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 69.5 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 64.5 | 23.0 - 140 | |
| 13C-OCDD | 60.9 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 77.1 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 62.1 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 63.2 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 64.0 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 65.7 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 67.5 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 63.4 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 62.3 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26.0 - 138 | |
| 13C-OCDF | 56.2 | 17.0 - 157 | |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 96.4 35.0 - 197

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

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-19-2010
2005 WHO TEQ: NA

| Compound | Conc | QC Limits | Qual |
|---------------------|------|-------------|------|
| 2,3,7,8-TCDD | 10.8 | 6.70 - 15.8 | |
| 1,2,3,7,8-PeCDD | 49.3 | 35.0 - 71.0 | |
| 1,2,3,4,7,8-HxCDD | 48.8 | 35.0 - 82.0 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 38.0 - 67.0 | |
| 1,2,3,7,8,9-HxCDD | 48.6 | 32.0 - 81.0 | |
| 1,2,3,4,6,7,8-HpCDD | 49.3 | 35.0 - 70.0 | |
| OCDD | 104 | 78.0 - 144 | |
| | | | |
| 2,3,7,8-TCDF | 9.24 | 7.50 - 15.8 | |
| 1,2,3,7,8-PeCDF | 50.0 | 40.0 - 67.0 | |
| 2,3,4,7,8-PeCDF | 50.9 | 34.0 - 80.0 | |
| 1,2,3,4,7,8-HxCDF | 51.6 | 36.0 - 67.0 | |
| 1,2,3,6,7,8-HxCDF | 50.7 | 42.0 - 65.0 | |
| 2,3,4,6,7,8-HxCDF | 50.6 | 35.0 - 78.0 | |
| 1,2,3,7,8,9-HxCDF | 51.5 | 39.0 - 65.0 | |
| 1,2,3,4,6,7,8-HpCDF | 48.8 | 41.0 - 61.0 | |
| 1,2,3,4,7,8,9-HpCDF | 49.4 | 39.0 - 69.0 | |
| OCDF | 97.4 | 63.0 - 170 | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 83.7 | 20.0 - 175 | |
| 13C-1,2,3,7,8-PeCDD | 62.3 | 21.0 - 227 | |
| 13C-1,2,3,4,7,8-HxCDD | 62.6 | 21.0 - 193 | |
| 13C-1,2,3,6,7,8-HxCDD | 65.4 | 25.0 - 163 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 61.1 | 26.0 - 166 | |
| 13C-OCDD | 58.1 | 13.0 - 198 | |
| | | | |
| 13C-2,3,7,8-TCDF | 85.6 | 22.0 - 152 | |
| 13C-1,2,3,7,8-PeCDF | 61.2 | 21.0 - 192 | |
| 13C-2,3,4,7,8-PeCDF | 62.6 | 13.0 - 328 | |
| 13C-1,2,3,4,7,8-HxCDF | 59.2 | 19.0 - 202 | |
| 13C-1,2,3,6,7,8-HxCDF | 63.6 | 21.0 - 159 | |
| 13C-2,3,4,6,7,8-HxCDF | 64.9 | 22.0 - 176 | |
| 13C-1,2,3,7,8,9-HxCDF | 57.7 | 17.0 - 205 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 61.8 | 21.0 - 158 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 58.1 | 20.0 - 186 | |
| 13C-OCDF | 53.7 | 13.0 - 198 | |

Cleanup Surrogate

| | | | |
|-------------------|-----|------------|--|
| 37Cl-2,3,7,8-TCDD | 111 | 31.0 - 191 | |
|-------------------|-----|------------|--|

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

Analyst: [Signature]

Date: 3/22/10

Reviewed By: [Signature]

Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-001-SA
Client ID: CB31A031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.040 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 5.37

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.65 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.91 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 3.43 | - | J | 0.343 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 6.62 | - | J | 0.662 | 0.381 | Total TCDD | ND | 1.65 | |
| 1,2,3,7,8,9-HxCDD | 5.82 | - | J | 0.582 | 0.351 | Total PeCDD | ND | 1.91 | |
| 1,2,3,4,6,7,8-HpCDD | 167 | - | | 1.67 | 0.495 | Total HxCDD | 46.6 | - | |
| OCDD | 1390 | - | | 0.417 | 1.02 | Total HpCDD | 293 | - | |
| 2,3,7,8-TCDF | ND | 0.613 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 1.16 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 1.19 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 6.61 | - | J | 0.661 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 3.07 | - | J | 0.307 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 3.07 | - | J | 0.307 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 1.14 | | - | 0.185 | Total TCDF | 4.89 | - | D,M |
| 1,2,3,4,6,7,8-HpCDF | 34.6 | - | | 0.346 | 0.251 | Total PeCDF | 18.7 | - | J |
| 1,2,3,4,7,8,9-HpCDF | 4.58 | - | J | 0.0458 | 0.280 | Total HxCDF | 69.2 | - | D,M |
| OCDF | 85.2 | - | | 0.0256 | 0.451 | Total HpCDF | 103 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 91.4 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 87.0 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 87.2 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 85.8 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 96.2 | 23.0 - 140 | |
| 13C-OCDD | 93.9 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 92.4 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 86.0 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 84.2 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 84.2 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 79.5 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 82.0 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 84.7 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 85.6 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 91.7 | 26.0 - 138 | |
| 13C-OCDF | 84.9 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 108 35.0 - 197

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-002-SA
Client ID: CB4857031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.038 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.62

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.36 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.40 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 1.65 | - | J | 0.165 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 3.79 | - | J | 0.379 | 0.381 | Total TCDD | ND | 1.36 | |
| 1,2,3,7,8,9-HxCDD | 3.09 | - | J | 0.309 | 0.351 | Total PeCDD | ND | 1.40 | |
| 1,2,3,4,6,7,8-HpCDD | 76.2 | - | | 0.762 | 0.495 | Total HxCDD | 26.8 | - | |
| OCDD | 561 | - | | 0.168 | 1.02 | Total HpCDD | 137 | - | |
| 2,3,7,8-TCDF | ND | 0.443 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.809 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.857 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 3.08 | - | J | 0.308 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 1.56 | - | J | 0.156 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 1.98 | - | J | 0.198 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.591 | | - | 0.185 | Total TCDF | 2.83 | - | J |
| 1,2,3,4,6,7,8-HpCDF | 14.2 | - | J | 0.142 | 0.251 | Total PeCDF | 8.13 | - | J |
| 1,2,3,4,7,8,9-HpCDF | 1.91 | - | J | 0.0191 | 0.280 | Total HxCDF | 30.1 | - | |
| OCDF | 34.8 | - | J | 0.0104 | 0.451 | Total HpCDF | 41.3 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 93.6 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 86.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 90.6 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 87.2 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 98.8 | 23.0 - 140 | |
| 13C-OCDD | 96.6 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 91.9 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 84.7 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 81.5 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 83.7 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 80.9 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 85.7 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 86.8 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 90.0 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 93.8 | 26.0 - 138 | |
| 13C-OCDF | 88.4 | 17.0 - 157 | |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 107 35.0 - 197

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

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

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-003-SA
Client ID: CB1031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.027 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.298

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD | ND | 1.52 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.37 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | ND | 2.06 | | - | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | ND | 2.48 | | - | 0.381 | Total TCDD | ND | 1.52 | |
| 1,2,3,7,8,9-HxCDD | ND | 2.25 | | - | 0.351 | Total PeCDD | ND | 1.37 | |
| 1,2,3,4,6,7,8-HpCDD | 24.1 | - | J | 0.241 | 0.495 | Total HxCDD | 9.71 | - | J |
| OCDD | 99.8 | - | | 0.0299 | 1.02 | Total HpCDD | 53.9 | - | |
| 2,3,7,8-TCDF | ND | 0.540 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.920 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 0.999 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | ND | 1.04 | | - | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | ND | 1.04 | | - | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | ND | 1.10 | | - | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 1.23 | | - | 0.185 | Total TCDF | ND | 0.540 | |
| 1,2,3,4,6,7,8-HpCDF | 2.73 | - | J | 0.0273 | 0.251 | Total PeCDF | ND | 0.999 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.828 | | - | 0.280 | Total HxCDF | 1.60 | - | J |
| OCDF | ND | 3.76 | | - | 0.451 | Total HpCDF | 5.14 | - | J |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 91.7 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 82.7 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 89.6 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 86.6 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 88.4 | 23.0 - 140 | |
| 13C-OCDD | 90.2 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 92.1 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 83.4 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 79.7 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 83.7 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 80.4 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 81.1 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 81.9 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 79.8 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 81.6 | 26.0 - 138 | |
| 13C-OCDF | 79.1 | 17.0 - 157 | |

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

Cleanup Surrogate

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

Analyst: [Signature]

Date: 3/23/10

Reviewed By: [Signature]

Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-004-SA
Client ID: CB101031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.033 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.68

| Compound | Conc | DL | Qual | 2005 WHO Tox | MDL | Compound | Conc | DL | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD | ND | 1.75 | | - | 0.212 | | | | |
| 1,2,3,7,8-PeCDD | ND | 1.64 | | - | 0.302 | | | | |
| 1,2,3,4,7,8-HxCDD | 1.57 | - | J | 0.157 | 0.328 | | | | |
| 1,2,3,6,7,8-HxCDD | 3.71 | - | J | 0.371 | 0.381 | Total TCDD | ND | 1.75 | |
| 1,2,3,7,8,9-HxCDD | 3.11 | - | J | 0.311 | 0.351 | Total PeCDD | ND | 1.64 | |
| 1,2,3,4,6,7,8-HpCDD | 78.8 | - | | 0.788 | 0.495 | Total HxCDD | 25.6 | - | |
| OCDD | 557 | - | | 0.167 | 1.02 | Total HpCDD | 140 | - | |
| 2,3,7,8-TCDF | ND | 0.534 | | - | 0.112 | | | | |
| 1,2,3,7,8-PeCDF | ND | 0.942 | | - | 0.219 | | | | |
| 2,3,4,7,8-PeCDF | ND | 1.05 | | - | 0.232 | | | | |
| 1,2,3,4,7,8-HxCDF | 3.15 | - | J | 0.315 | 0.162 | | | | |
| 1,2,3,6,7,8-HxCDF | 1.59 | - | J | 0.159 | 0.167 | | | | |
| 2,3,4,6,7,8-HxCDF | 2.08 | - | J | 0.208 | 0.167 | | | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.828 | | - | 0.185 | Total TCDF | 2.09 | - | J |
| 1,2,3,4,6,7,8-HpCDF | 16.9 | - | J | 0.169 | 0.251 | Total PeCDF | 5.46 | - | J |
| 1,2,3,4,7,8,9-HpCDF | 2.14 | - | J | 0.0214 | 0.280 | Total HxCDF | 30.7 | - | |
| OCDF | 39.5 | - | J | 0.0118 | 0.451 | Total HpCDF | 48.7 | - | |

| Internal Standards | % Rec | QC Limits | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD | 93.6 | 25.0 - 164 | |
| 13C-1,2,3,7,8-PeCDD | 86.9 | 25.0 - 181 | |
| 13C-1,2,3,4,7,8-HxCDD | 86.8 | 32.0 - 141 | |
| 13C-1,2,3,6,7,8-HxCDD | 84.9 | 28.0 - 130 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 90.8 | 23.0 - 140 | |
| 13C-OCDD | 92.4 | 17.0 - 157 | |
| 13C-2,3,7,8-TCDF | 93.0 | 24.0 - 169 | |
| 13C-1,2,3,7,8-PeCDF | 86.5 | 24.0 - 185 | |
| 13C-2,3,4,7,8-PeCDF | 82.6 | 21.0 - 178 | |
| 13C-1,2,3,4,7,8-HxCDF | 81.5 | 26.0 - 152 | |
| 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26.0 - 123 | |
| 13C-2,3,4,6,7,8-HxCDF | 78.7 | 28.0 - 136 | |
| 13C-1,2,3,7,8,9-HxCDF | 82.4 | 29.0 - 147 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 81.0 | 28.0 - 143 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 85.6 | 26.0 - 138 | |
| 13C-OCDF | 81.6 | 17.0 - 157 | |

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 110 35.0 - 197

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

Reviewed By: [Signature]
Date: 3/22/10

SUBCONTRACTOR ANALYSIS REQUEST
 CUSTODY TRANSFER 03/11/10



6030
 [Signature]

ARI Project: QN21

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

ARI Client: Floyd-Snider
 Project ID: Lora Lakes Apartments
 ARI PM: Sue Dunnihoo
 Phone: 206-695-6207
 Fax: 206-695-6201

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 05/30/08
 Fax Results (Y/N): **email**

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

| ARI ID | Client ID/ Add'l ID | Sampled | Matrix | Bottles | Analyses |
|----------------------------|------------------------|-----------------------|--------|---------|--------------------------|
| 10-5974-QN21A | CB31A031010COMP | 03/10/10 ✓ 06:16 ✓ | Water | 1 | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None | | | | | |
| 10-5975-QN21B | CB4857031010COMP | 03/10/10 ✓ 05:51 ✓ | Water | 1 | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None | | | | | |
| 10-5976-QN21C | CB1031010COMP | 03/10/10 ✓ 05:45 ✓ | Water | 1 | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None | | | | | |
| 10-5977-QN21D | CB101031010COMP | 03/10/10 ✓ 06:51 ✓ | Water | 1 | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None | | | | | |

L4 & EDD

| | | |
|--------------------------------|--------------------------------|------------------|
| Carrier UPS | Airbill 128326950149353010 | Date 3/11/10 |
| Relinquished by [Signature] | Company ARI | Date 3/11/10 |
| Received by Tom Chalton | Company Frontier Analytical | Date 3/12/10 |
| | | Time 10:20 AM |

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6030**

| | |
|------------------------|--|
| Client: | Analytical Resources Inc. Sue Dunninghoo |
| Client Project ID: | QN21 |
| Date Received: | 03/12/2010 |
| Time Received: | 10:20 am |
| Received By: | TC |
| Logged In By: | KZ |
| # of Samples Received: | 4 |
| Duplicates: | 0 |
| Storage Location: | R2 |

| | |
|--------------------------------------|--------------------|
| Method of Delivery: | UPS |
| Tracking Number: | 1Z8326950149353610 |
| Shipping Container Received Intact | Yes |
| Custody seals(s) present? | Yes |
| Custody seals(s) intact? | Yes |
| Sample Arrival Temperature (C) | 0 |
| Cooling Method | Ice |
| Chain Of Custody Present? | Yes |
| Return Shipping Container To Client | Yes |
| Test for residual Chlorine | Yes |
| Thiosulfate Added | No |
| Earliest Sample Hold Time Expiration | 03/10/2011 |
| Adequate Sample Volume | Yes |
| Anomalies or additional comments: | |



Frontier Analytical Laboratory
6030-001-SA
 Client ID: CB31A031010COMP
 Storage: R2 (01 of 01)

Frontier Analytical Laboratory
6030-002-SA
 Client ID: CB4857031010COMP
 Storage: R2 (01 of 01)

Frontier Analytical Laboratory
6030-003-SA
 Client ID: CB103101010COMP
 Storage: R2 (01 of 01)

Frontier Analytical Laboratory
6030-004-SA
 Client ID: CB103101010COMP
 Storage: R2 (01 of 01)

Frontier Analytical Laboratory
 30 E. SJ TURNELL BLVD.
 MIAMI, OK 74354
 1-800-331-7438

DATE: 3/16/18
 TIME: 10:10
 COLLECTED BY: [Signature]
 SAMPLING SITE: CB31A031010
 SAMPLE TYPE: Solid Composite Other
 TESTS REQUIRED: Dioxin, Furan 1613

Frontier Analytical Laboratory
 30 E. SJ TURNELL BLVD.
 MIAMI, OK 74354
 1-800-331-7438

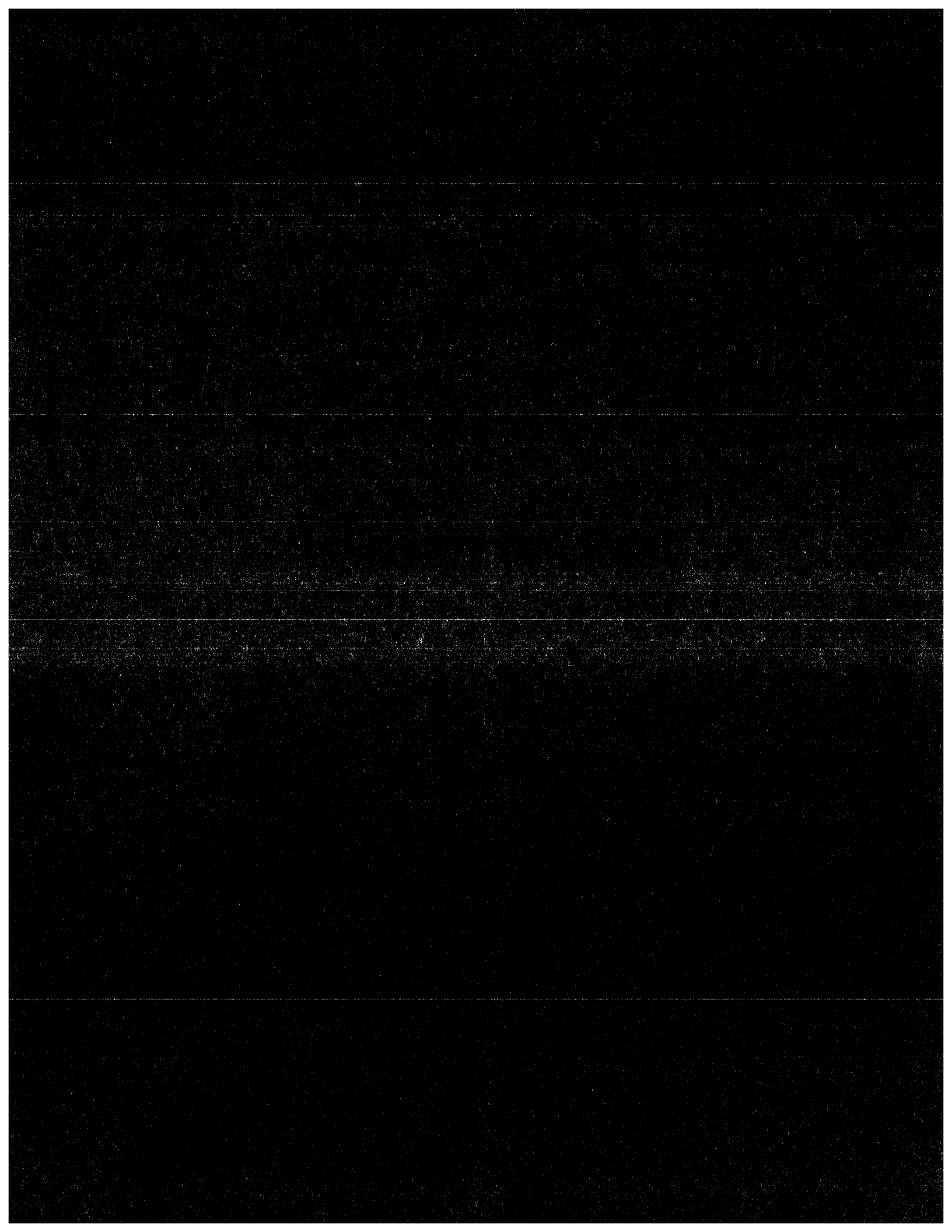
DATE: 3/16/18
 TIME: 10:51
 COLLECTED BY: [Signature]
 SAMPLING SITE: CB4857031010COMP
 SAMPLE TYPE: Solid Composite Other
 TESTS REQUIRED: Dioxin, Furan 1613

Frontier Analytical Laboratory
 30 E. SJ TURNELL BLVD.
 MIAMI, OK 74354
 1-800-331-7438

DATE: 3/16/18
 TIME: 10:51
 COLLECTED BY: [Signature]
 SAMPLING SITE: CB103101010
 SAMPLE TYPE: Solid Composite Other
 TESTS REQUIRED: Dioxin, Furan 1613

Frontier Analytical Laboratory
 30 E. SJ TURNELL BLVD.
 MIAMI, OK 74354
 1-800-331-7438

DATE: 3/16/18
 TIME: 10:51
 COLLECTED BY: [Signature]
 SAMPLING SITE: CB103101010COMP
 SAMPLE TYPE: Solid Composite Other
 TESTS REQUIRED: Dioxin, Furan 1613



Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6030 Sample #: 1-4 Client Manager: BS
 Client: Analytical Resources Inc. Sue Dunning Hold Time: 03/10/2011
 Matrix: Aqueous Extraction Batch: 19104 Due Date: 04/05/2010
 Method: EPA 1613 D/F Storage: R2
 SOP: SOPs: EP2A Rev.7 IP2A Rev.8

COMMENTS/INSTRUCTIONS:

- NC -

| Sample | Full Weight (g) | Empty Weight (g) |
|------------------|-----------------|------------------|
| 6030-001-0001-SA | 1533.8 | 493.74 |
| 6030-002-0001-SA | 1531.4 | 493.81 |
| 6030-003-0001-SA | 1521.5 | 494.27 |
| 6030-004-0001-SA | 1527.4 | 494.24 |

Results: 6030

Instrument:

DB5 FAL-3
 DB225 _____
 DB1 _____
 Other _____

Extract/s located in box: "St. Patty's Day"

QC/Standards: 6030

EXTRACTION SHEET

Project #: 6030 Extraction Date: 2010-03-16 Extraction Chemist: GN

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

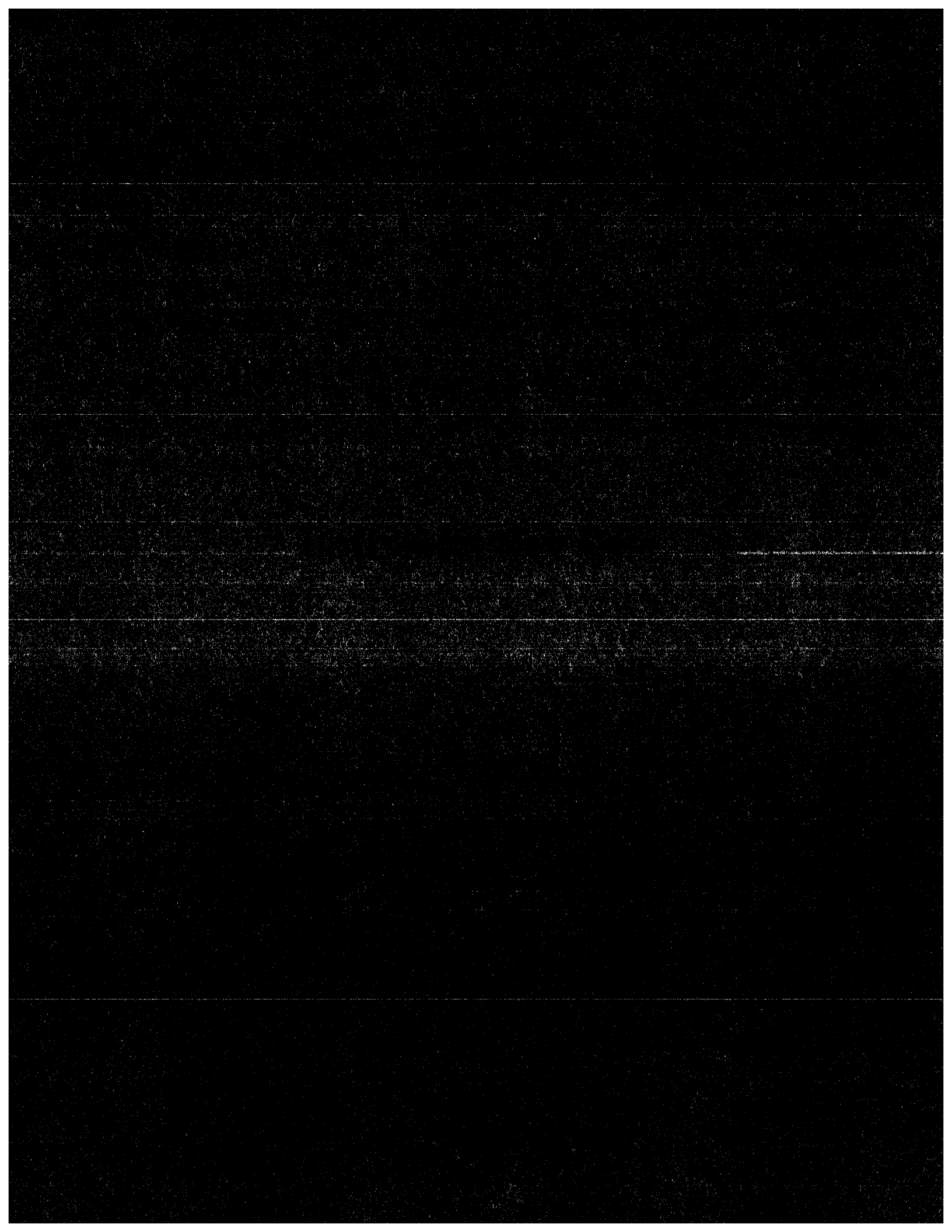
Solvent: Toluene

| Sample ID | Wet wt. (g/L) | Dry wt. (g/L) | IS | | NS | | CSS | |
|-------------------|------------------|------------------|---|---------|---|----|---|--|
| | | | Amt: 10.0uL ID: 090918A Vial: 3 Chemist/Witness/Date | | Amt: 10.0uL ID: 090918B Vial: 3 Chemist/Witness/Date | | Amt: 10.0uL ID: 090918C Vial: 3 Chemist/Witness/Date | |
| 1964-001-0001-MB | | | | | | | | |
| 1964-001-0001-OPR | | | | | | | | |
| 6030-001-0001-SA | 1.040 | } | GN | 3/16/10 | NA | GN | 3/16/10 | |
| 6030-002-0001-SA | 1.038 | | | | | | | |
| 6030-003-0001-SA | 1.027 | | | | | | | |
| 6030-004-0001-SA | 1.033 | | | | | | | |
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6025

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

Comments:



Sample Results

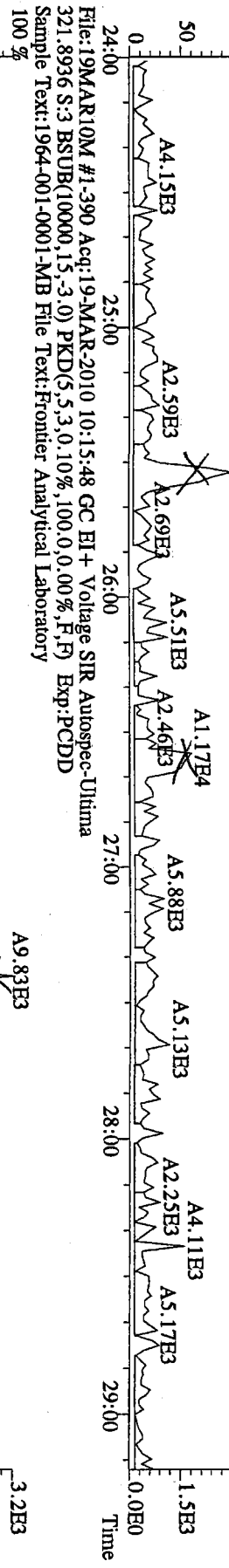
FAL ID: 1964-001-0001-MB Filename: 19MAR10M Sam:3 Acquired: 19-MAR-10 10:15:48 ICal: PCDDFAL3-11-18-09
 Client ID: Method Blank ConCal: ST031910M1 EndCal: ST031910M2
 Results: 1964 GC Column: DB5 Amount: 1.000

| Name | Resp | RA | RT | RRF | NATO 1989 Tox: | | WHO 1998 Tox: | | WHO 2005 Tox: | | DL |
|--------------------------|----------|------|--------|-------|----------------|------|---------------|---------|---------------|---------|----|
| | | | | | Conc | Qual | Fac | Noise-1 | Noise-2 | DL | |
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.02 | * | 2.50 | 988 | 1030 | 1.85 | | |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 0.96 | * | 2.50 | 682 | 381 | 1.32 | | |
| 1,2,3,4,7,8-HxCDD | * | * n | NotFnd | 1.37 | * | 2.50 | 650 | 582 | 1.67 | | |
| 1,2,3,6,7,8-HxCDD | * | * n | NotFnd | 1.34 | * | 2.50 | 650 | 582 | 1.90 | | |
| 1,2,3,7,8,9-HxCDD | * | * n | NotFnd | 1.37 | * | 2.50 | 650 | 582 | 1.78 | | |
| 1,2,3,4,6,7,8-HpCDD | * | * n | NotFnd | 1.17 | * | 2.50 | 882 | 703 | 3.31 | | |
| OCDD | * | * n | NotFnd | 1.21 | * | 2.50 | 761 | 707 | 5.34 | | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | 2.50 | 571 | 1120 | 0.726 | | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.89 | * | 2.50 | 727 | 2070 | 2.38 | | |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.91 | * | 2.50 | 727 | 2070 | 2.38 | | |
| 1,2,3,4,7,8-HxCDF | * | * n | NotFnd | 1.00 | * | 2.50 | 573 | 537 | 1.25 | | |
| 1,2,3,6,7,8-HxCDF | * | * n | NotFnd | 0.92 | * | 2.50 | 573 | 537 | 1.20 | | |
| 2,3,4,6,7,8-HxCDF | * | * n | NotFnd | 0.99 | * | 2.50 | 573 | 537 | 1.24 | | |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.09 | * | 2.50 | 573 | 537 | 1.53 | | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | NotFnd | 1.36 | * | 2.50 | 392 | 507 | 1.28 | | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | NotFnd | 1.61 | * | 2.50 | 392 | 507 | 1.59 | | |
| OCDF | * | * n | NotFnd | 0.84 | * | 2.50 | 427 | 677 | 3.40 | | |
| | | | | | | | | | | Rec | |
| 13C-2,3,7,8-TCDD | 2.24e+07 | 0.74 | y | 27:22 | 0.94 | 1540 | | | | 76.9 | |
| 13C-1,2,3,7,8-PeCDD | 2.10e+07 | 1.56 | y | 33:12 | 1.02 | 1340 | | | | 66.9 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.37e+07 | 1.33 | y | 38:34 | 0.98 | 1310 | | | | 65.4 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.39e+07 | 1.33 | y | 38:44 | 0.94 | 1390 | | | | 69.5 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.24e+07 | 1.03 | y | 44:11 | 0.90 | 1290 | | | | 64.5 | |
| 13C-OCDD | 1.73e+07 | 0.97 | y | 49:45 | 0.67 | 2440 | | | | 60.9 | |
| 13C-2,3,7,8-TCDF | 3.94e+07 | 0.81 | y | 26:37 | 0.88 | 1540 | | | | 77.1 | |
| 13C-1,2,3,7,8-PeCDF | 3.18e+07 | 1.68 | y | 31:28 | 0.88 | 1240 | | | | 62.1 | |
| 13C-2,3,4,7,8-PeCDF | 3.13e+07 | 1.65 | y | 32:46 | 0.85 | 1260 | | | | 63.2 | |
| 13C-1,2,3,4,7,8-HxCDF | 2.34e+07 | 0.48 | y | 37:11 | 1.72 | 1280 | | | | 64.0 | |
| 13C-1,2,3,6,7,8-HxCDF | 2.80e+07 | 0.48 | y | 37:22 | 2.00 | 1310 | | | | 65.7 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.49e+07 | 0.47 | y | 38:18 | 1.74 | 1350 | | | | 67.5 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.03e+07 | 0.47 | y | 39:44 | 1.51 | 1270 | | | | 63.4 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.46e+07 | 0.49 | y | 42:17 | 1.10 | 1250 | | | | 62.3 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.10e+07 | 0.50 | y | 45:05 | 0.85 | 1220 | | | | 61.2 | |
| 13C-OCDF | 2.81e+07 | 0.89 | y | 50:06 | 1.17 | 2250 | | | | 56.2 | |
| 37Cl-2,3,7,8-TCDD | 1.16e+07 | | | 27:23 | 0.97 | 771 | | | | 96.4 | |
| 13C-1,2,3,4-TCDD | 3.09e+07 | 0.75 | y | 26:49 | - | 118 | | | | | |
| 13C-1,2,3,4-TCDF | 5.83e+07 | 0.81 | y | 25:32 | - | 126 | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 2.13e+07 | 1.34 | y | 39:11 | - | 104 | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.02 | * | 2.50 | 988 | 1030 | 1.85 | #Hom | |
| Total Penta-Dioxins | * | | NotFnd | 0.96 | * | 2.50 | 682 | 381 | 1.32 | 0 | |
| Total Hexa-Dioxins | * | | NotFnd | 1.36 | * | 2.50 | 650 | 582 | 1.90 | 0 | |
| Total Hepta-Dioxins | * | | NotFnd | 1.17 | * | 2.50 | 882 | 703 | 3.31 | 0 | |
| Total Tetra-Furans | * | | NotFnd | 1.29 | * | 2.50 | 571 | 1120 | 0.726 | 0 | |
| 1st Fn. Tot Penta-Furans | * | | NotFnd | 0.90 | * | 2.50 | 727 | 2070 | 2.38 | PeCDF 0 | |
| Total Penta-Furans | * | | NotFnd | 0.90 | * | 2.50 | 727 | 2070 | 2.38 | * 0 | |
| Total Hexa-Furans | * | | NotFnd | 0.99 | * | 2.50 | 573 | 537 | 1.53 | 0 | |
| Total Hepta-Furans | * | | NotFnd | 1.47 | * | 2.50 | 392 | 507 | 1.59 | 0 | |

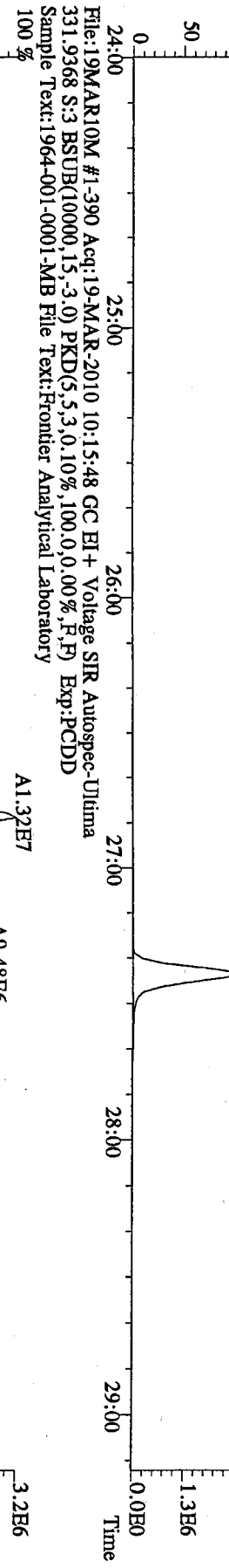
Analyst: 

Date: 3/22/10

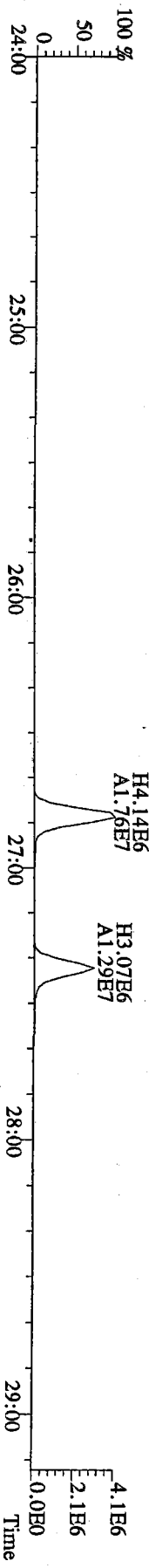
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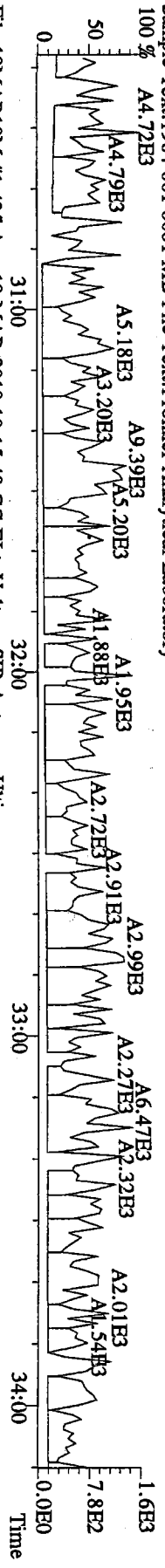
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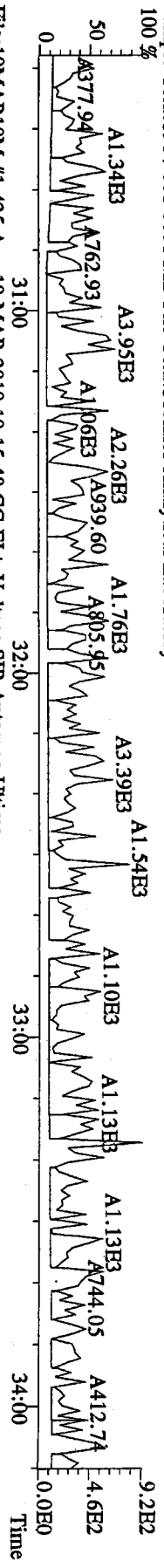
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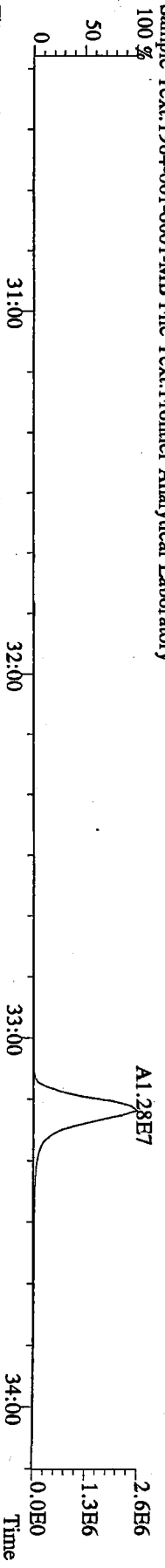
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



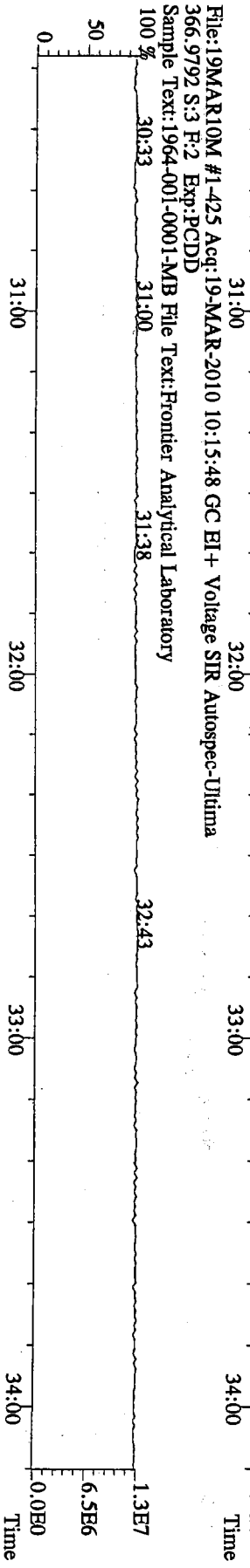
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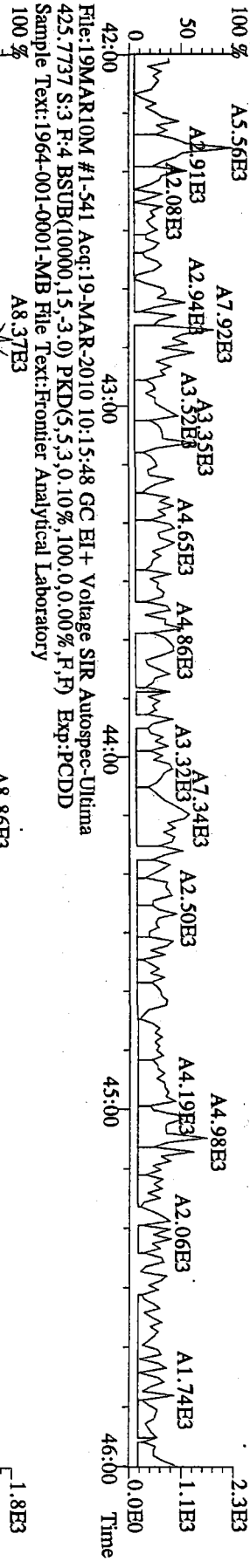
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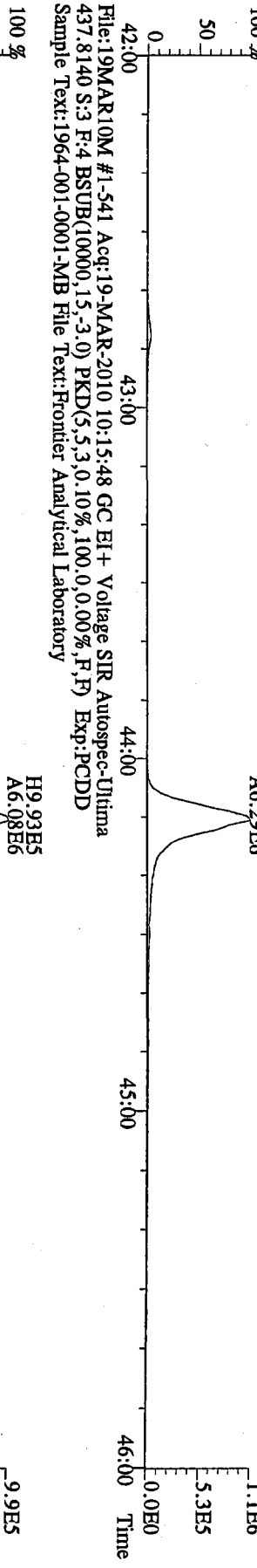
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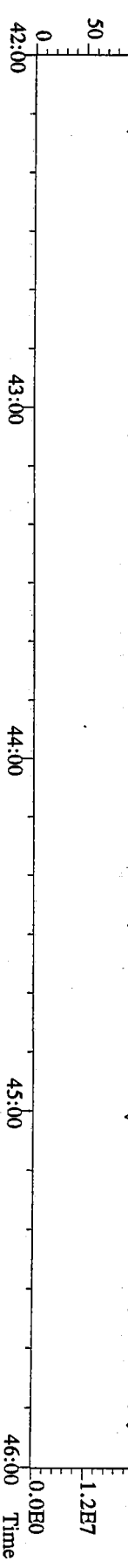
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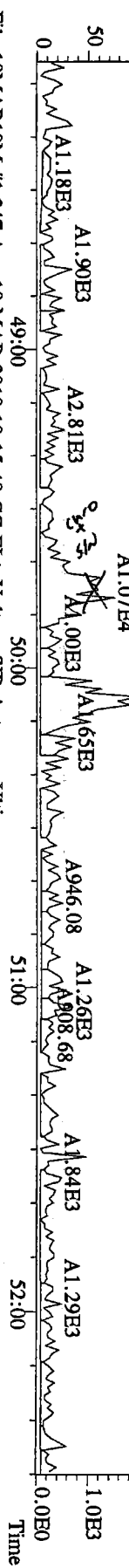
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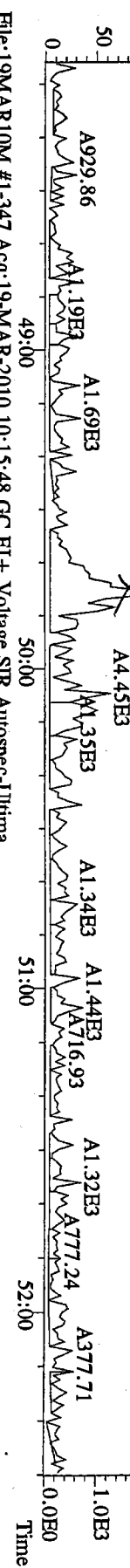
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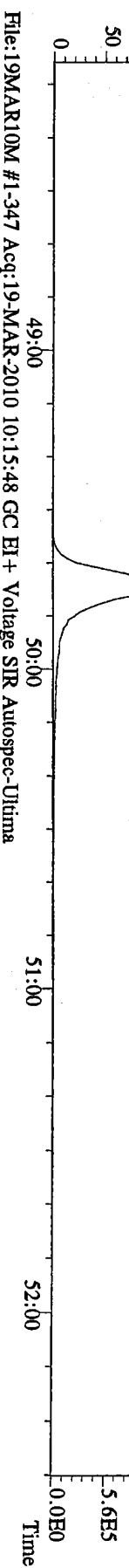
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



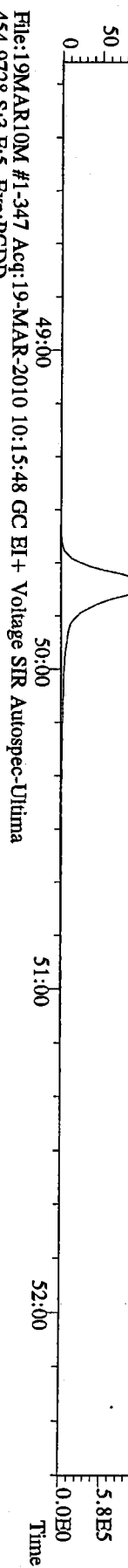
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



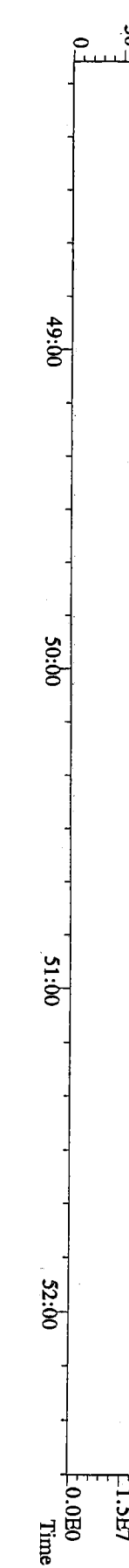
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



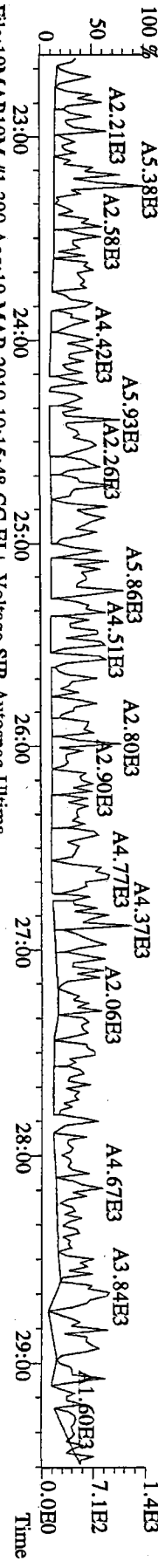
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 454.9728 S:3 F:5 Exp:PCDD
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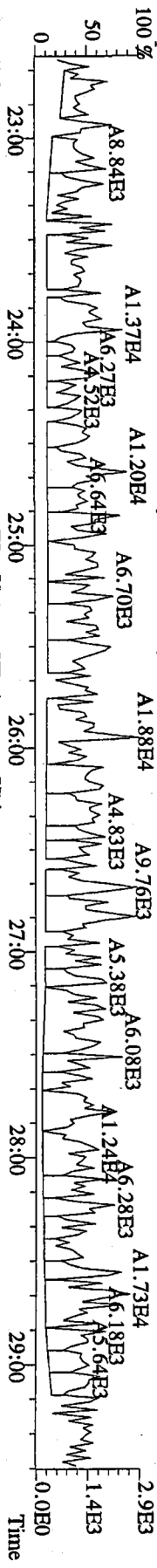
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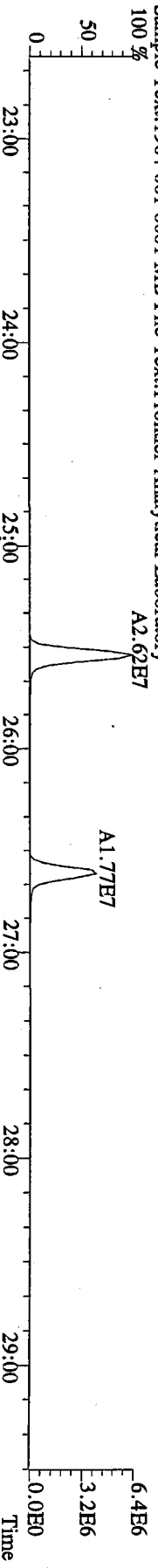
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 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



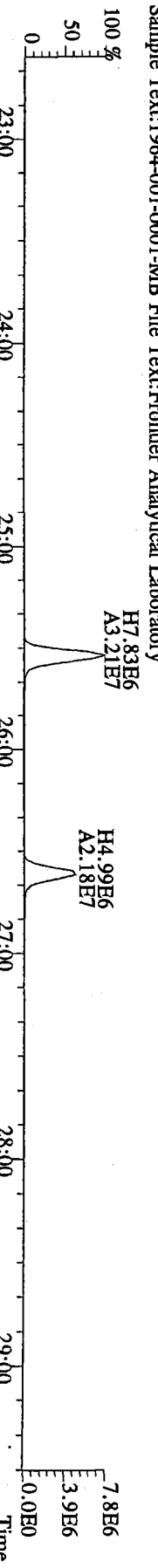
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 305.8987 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



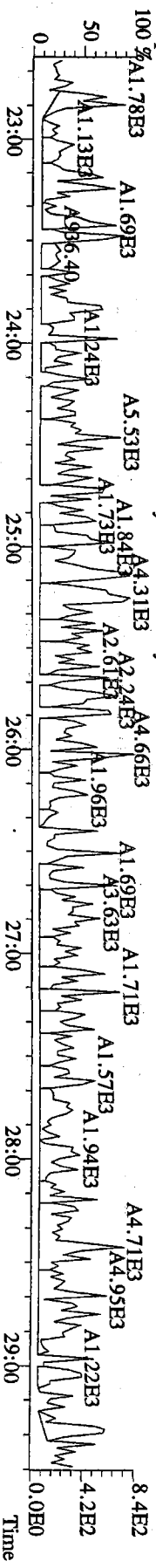
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



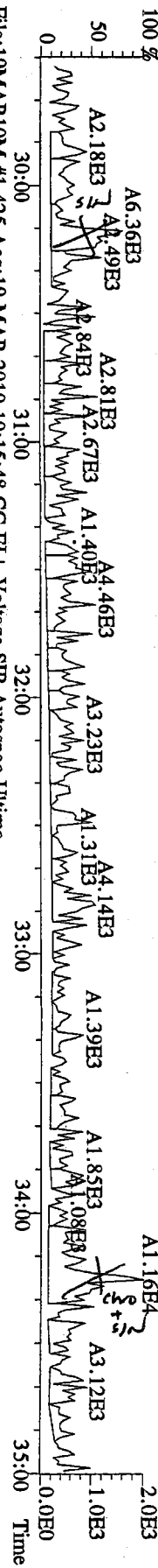
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



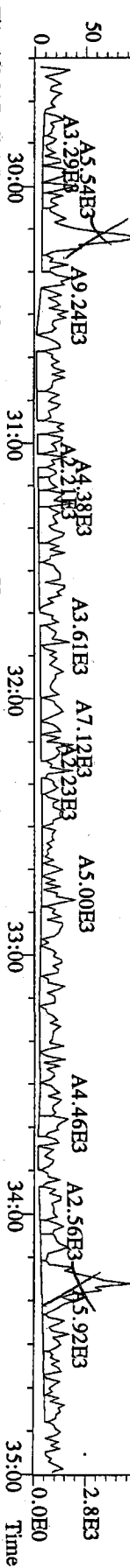
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



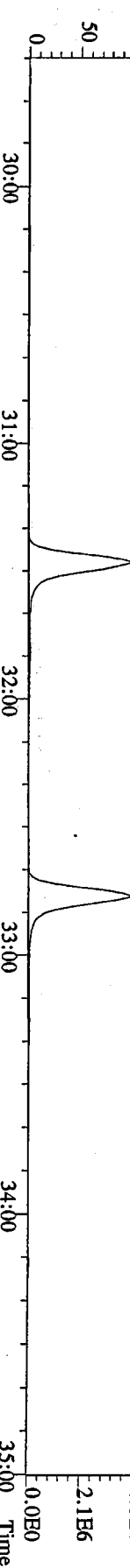
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



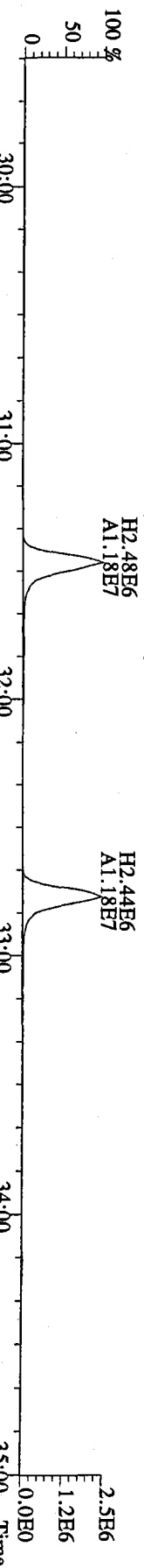
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 341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



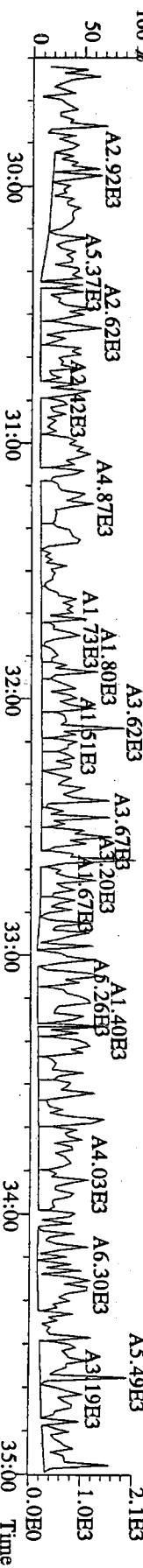
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 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



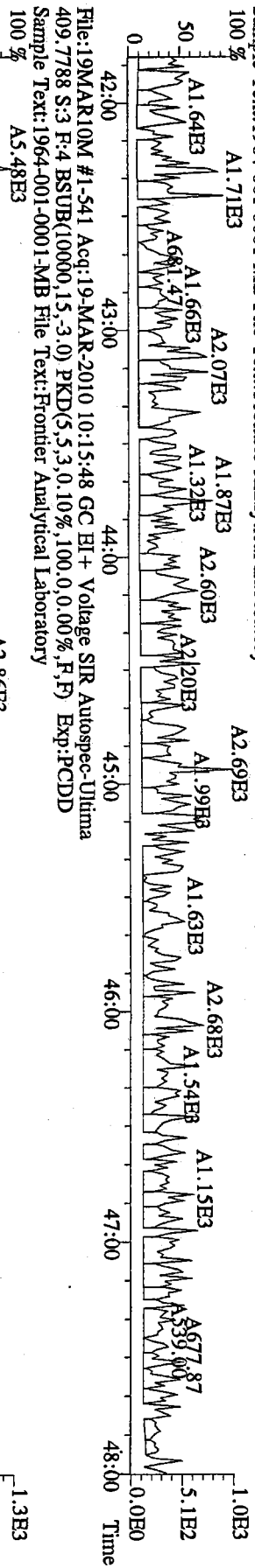
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 353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



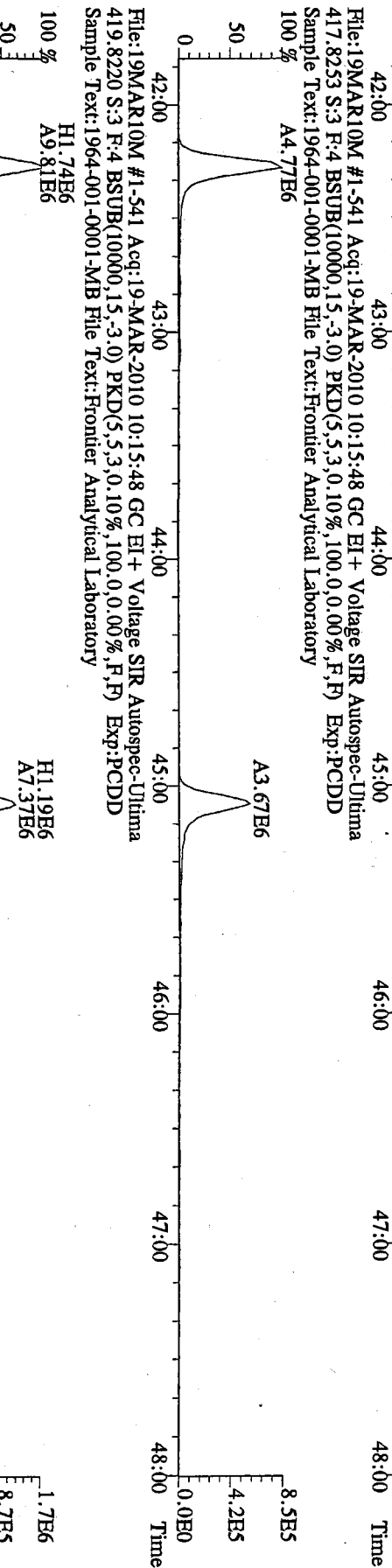
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 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



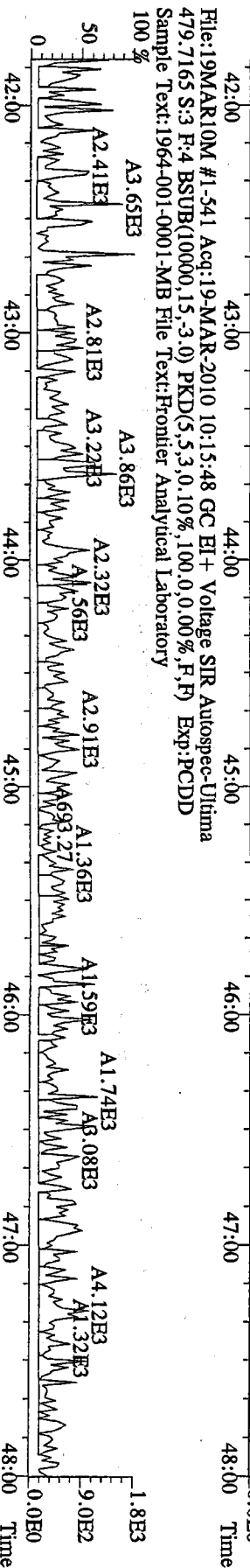
File:19MARI0M #1-541 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



File:19MARI0M #1-541 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory

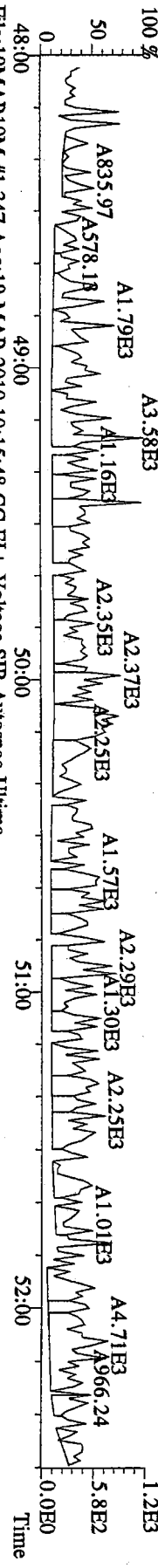


File:19MARI0M #1-541 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory

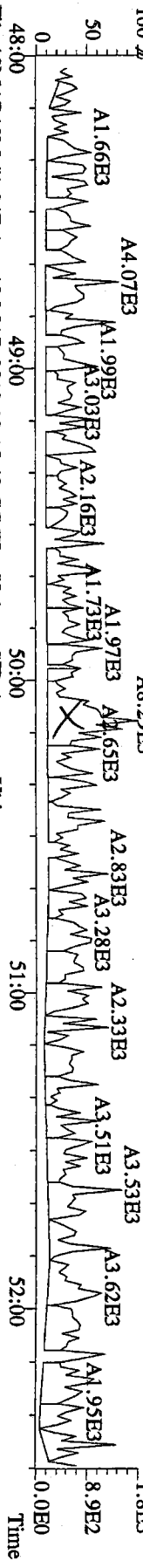


SSSSSS : 1220

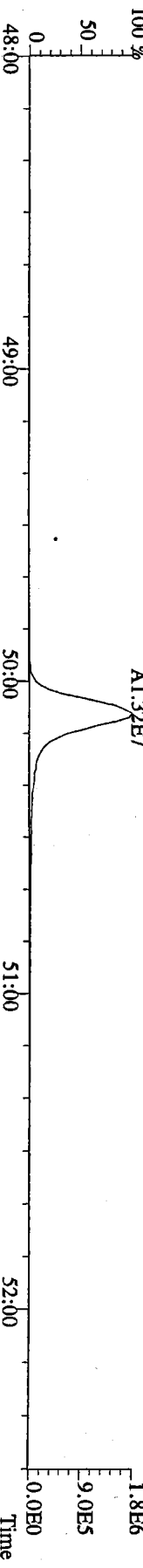
File:19MARI0M #1-347 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



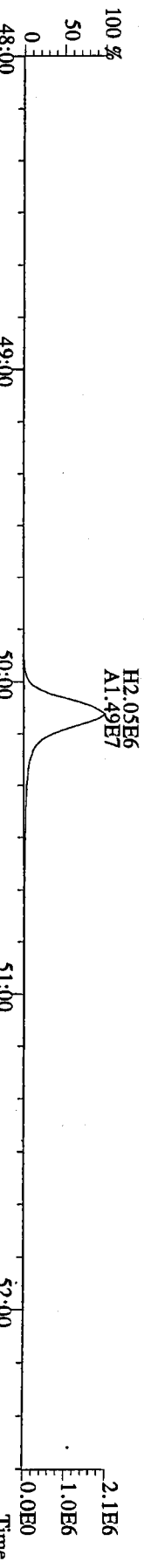
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 443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



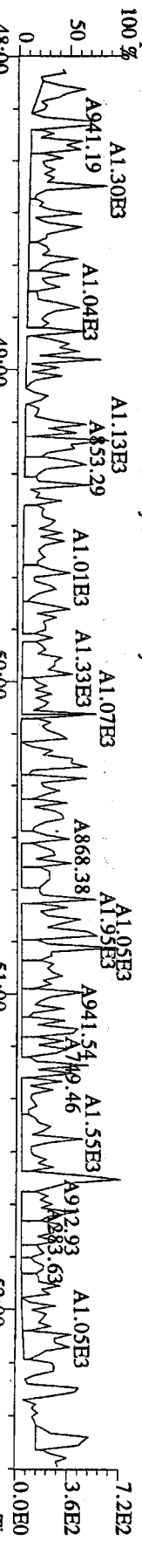
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



File:19MARI0M #1-347 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



File:19MARI0M #1-347 Acq:19-MAR-2010 10:15:48 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-MB File Text:Frontier Analytical Laboratory



USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 19MAR10M Sam:2

Ext. Date: 3/16/10 Shift: Day Analysis Date: 19-MAR-10 09:19:40

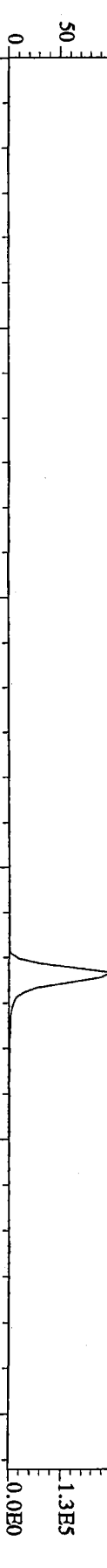
ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

| | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | OPR CONC. LIMITS (1) (ng/mL) |
|---------------------|---------------------------|---------------------------|------------------------------------|
| NATIVE ANALYTES | | | |
| 2,3,7,8-TCDD | 10 | 10.8 | 6.70 - 15.8 |
| 1,2,3,7,8-PeCDD | 50 | 49.3 | 35.0 - 71.0 |
| 1,2,3,4,7,8-HxCDD | 50 | 48.8 | 35.0 - 82.0 |
| 1,2,3,6,7,8-HxCDD | 50 | 50.0 | 38.0 - 67.0 |
| 1,2,3,7,8,9-HxCDD | 50 | 48.6 | 32.0 - 81.0 |
| 1,2,3,4,6,7,8-HpCDD | 50 | 49.3 | 35.0 - 70.0 |
| OCDD | 100 | 104 | 78.0 - 144 |
| 2,3,7,8-TCDF | 10 | 9.24 | 7.50 - 15.8 |
| 1,2,3,7,8-PeCDF | 50 | 50.0 | 40.0 - 67.0 |
| 2,3,4,7,8-PeCDF | 50 | 50.9 | 34.0 - 80.0 |
| 1,2,3,4,7,8-HxCDF | 50 | 51.6 | 36.0 - 67.0 |
| 1,2,3,6,7,8-HxCDF | 50 | 50.7 | 42.0 - 65.0 |
| 2,3,4,6,7,8-HxCDF | 50 | 50.6 | 35.0 - 78.0 |
| 1,2,3,7,8,9-HxCDF | 50 | 51.5 | 39.0 - 65.0 |
| 1,2,3,4,6,7,8-HpCDF | 50 | 48.8 | 41.0 - 61.0 |
| 1,2,3,4,7,8,9-HpCDF | 50 | 49.4 | 39.0 - 69.0 |
| OCDF | 100 | 97.4 | 63.0 - 170 |

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

Analyst: Date: 

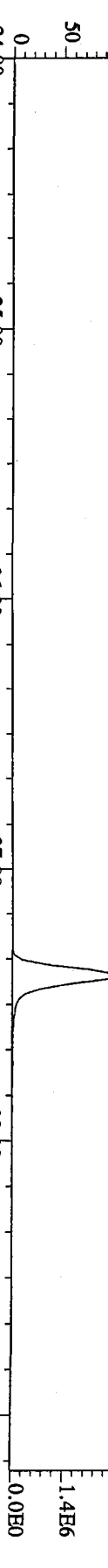
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319.8965 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



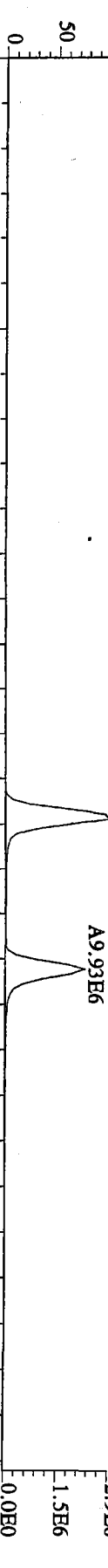
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321.8936 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



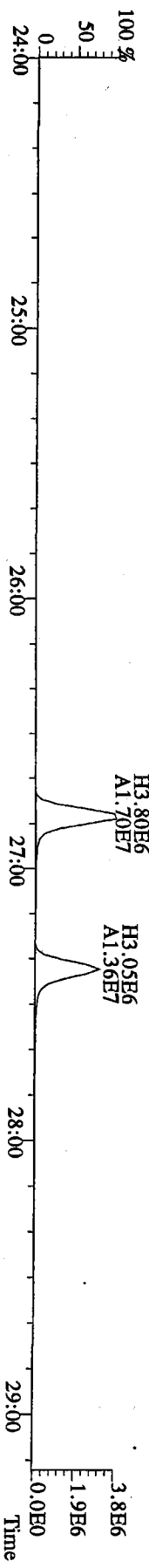
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



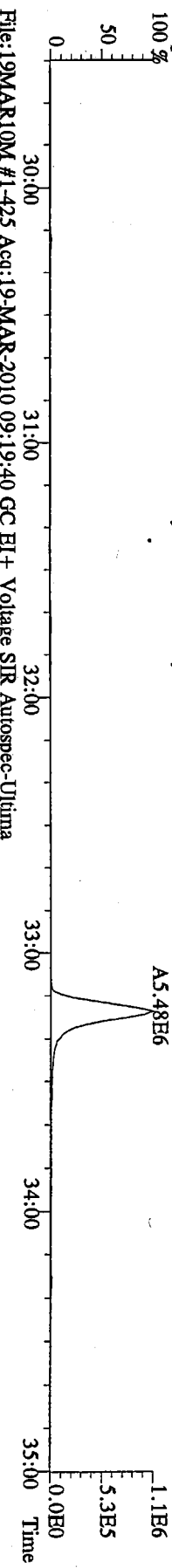
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331.9368 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



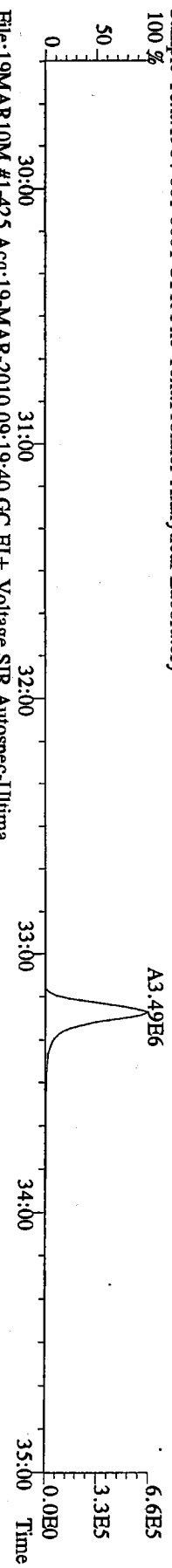
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333.9339 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



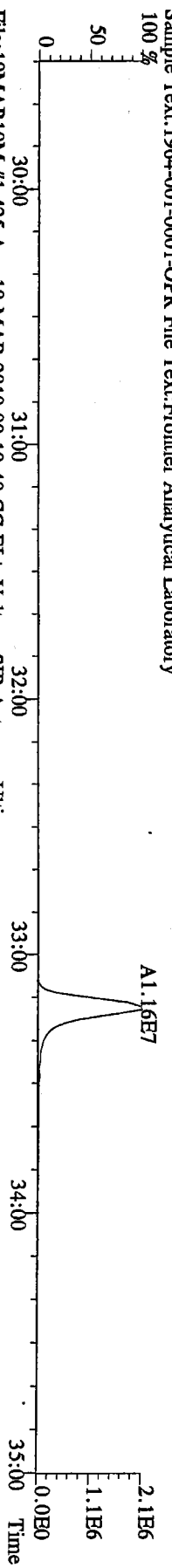
File:19MARIOM #1-425 Acq:19-MAR-2010 09:19:40 GC EI + Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



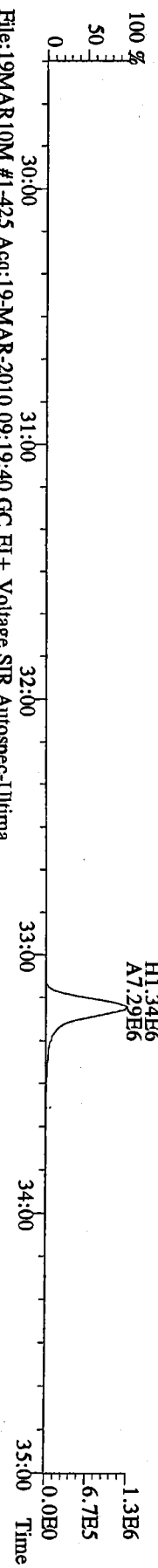
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357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



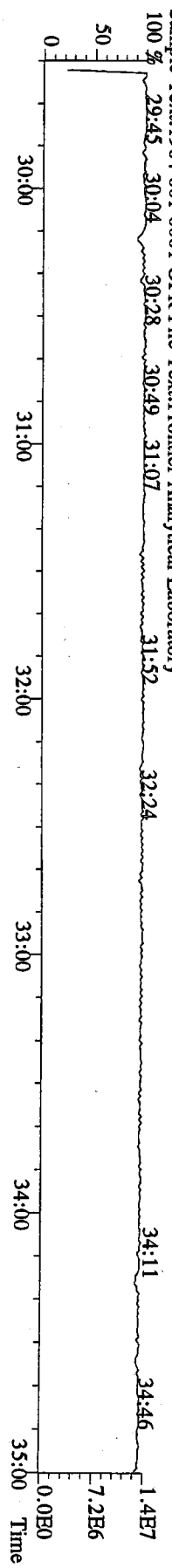
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



File:19MARIOM #1-425 Acq:19-MAR-2010 09:19:40 GC EI + Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory

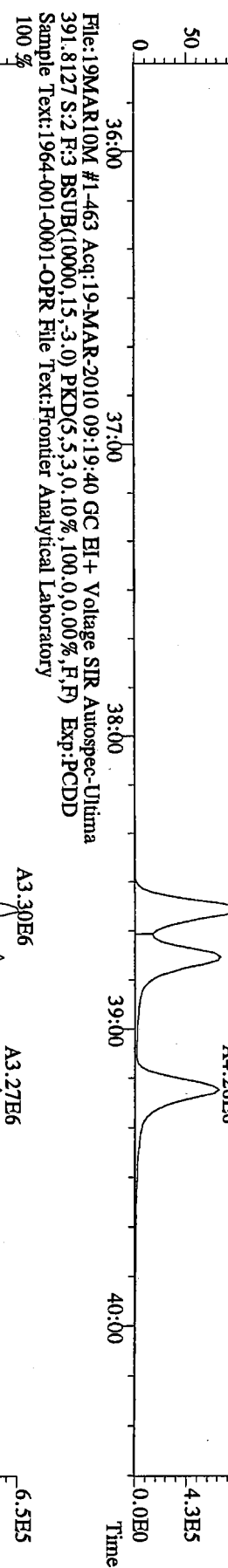


File:19MARIOM #1-425 Acq:19-MAR-2010 09:19:40 GC EI + Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %

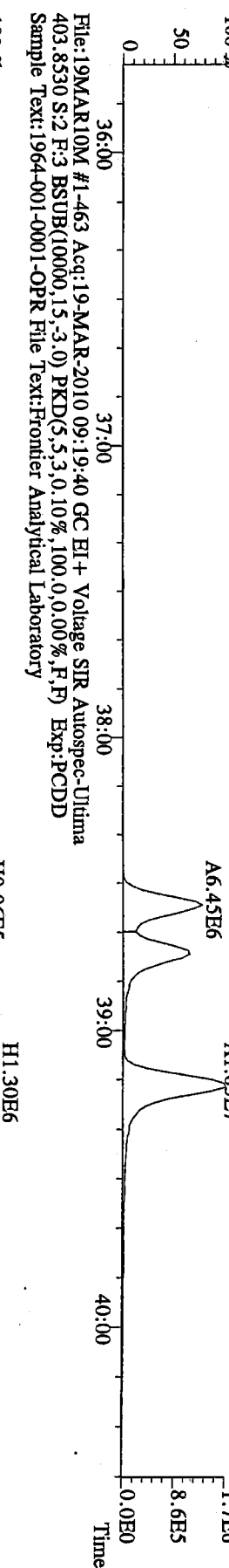


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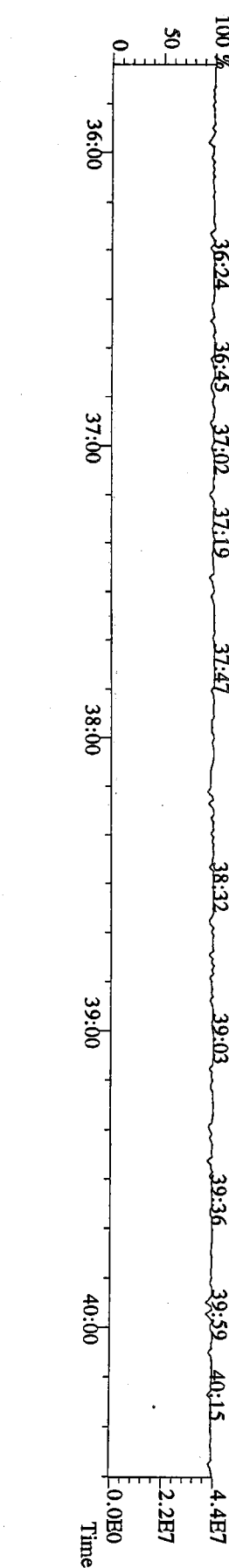
File:19MARI01M #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



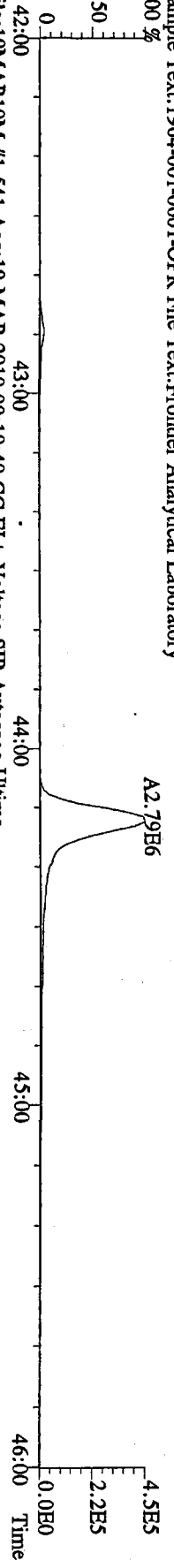
File:19MARI01M #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



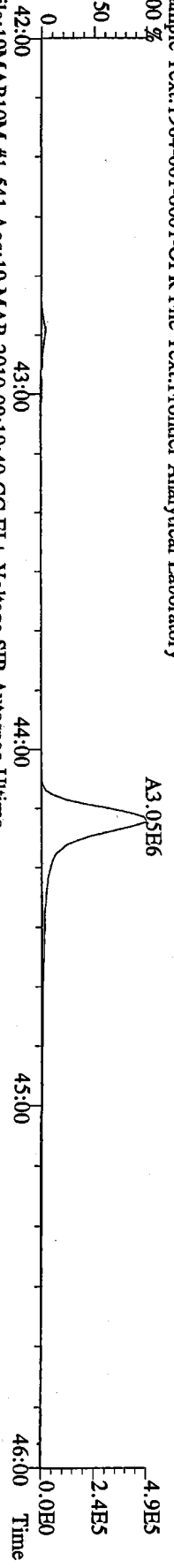
File:19MARI01M #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:2 F:3 Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



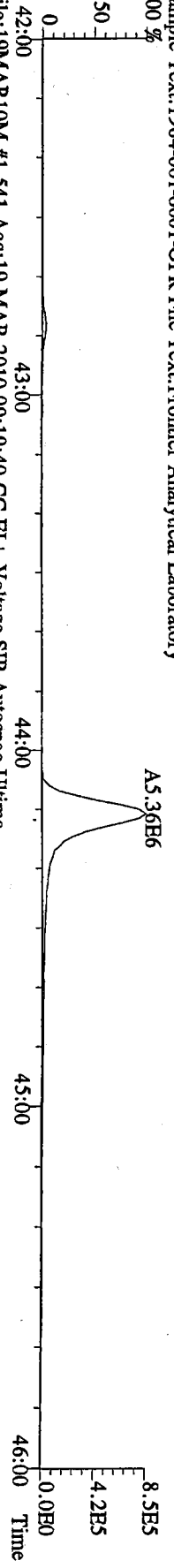
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



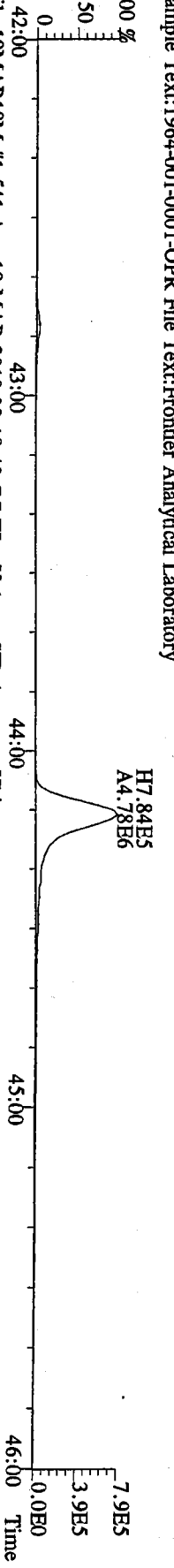
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



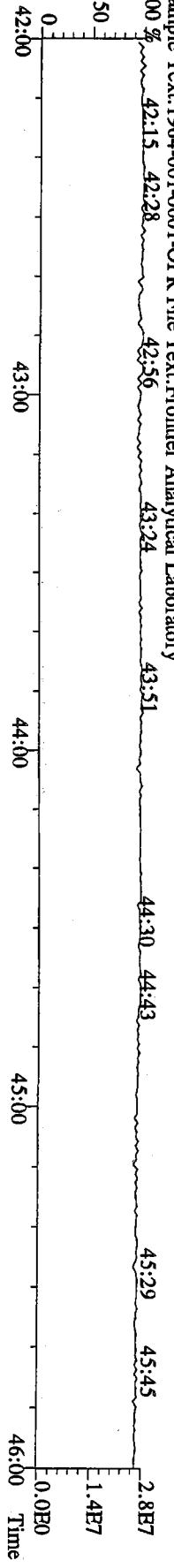
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



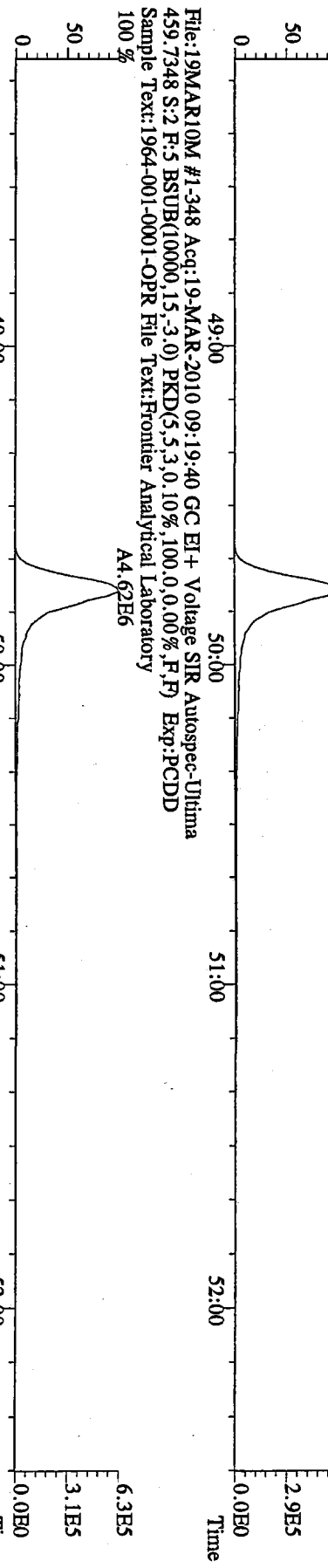
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



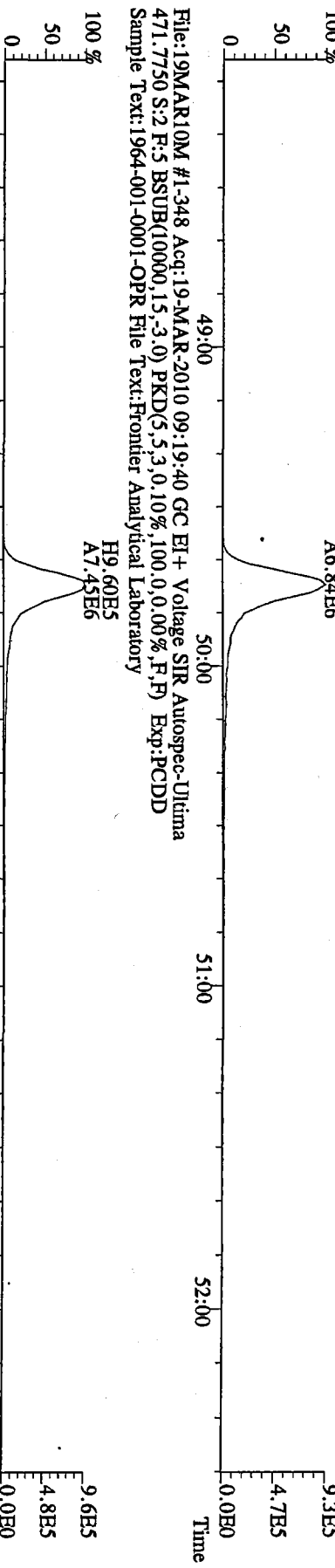
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



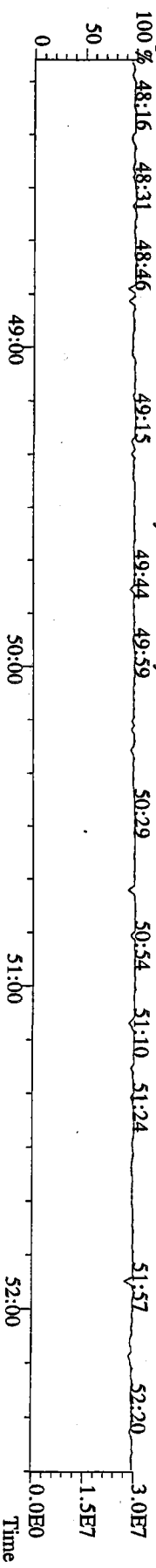
File:19MARI0M #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



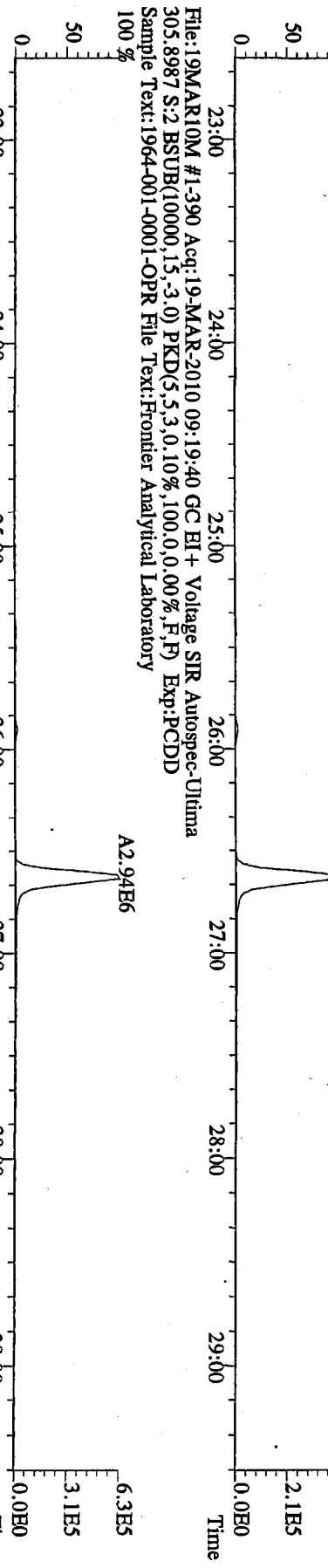
File:19MARI0M #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



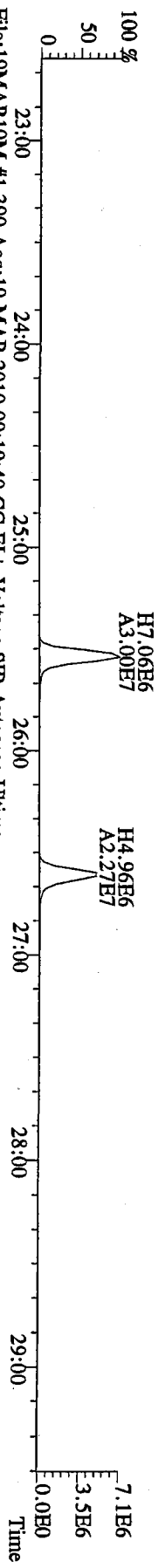
File:19MARI0M #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



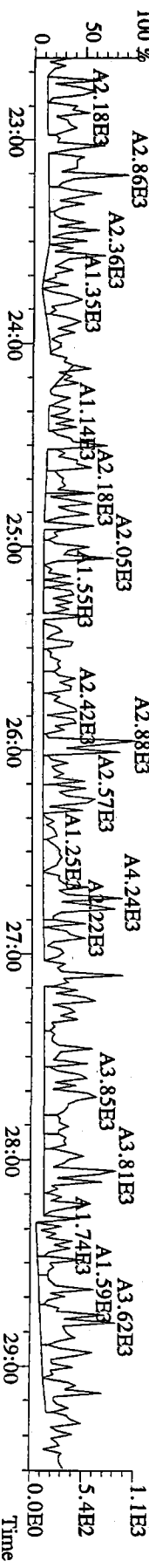
File:19MARI0M #1-390 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



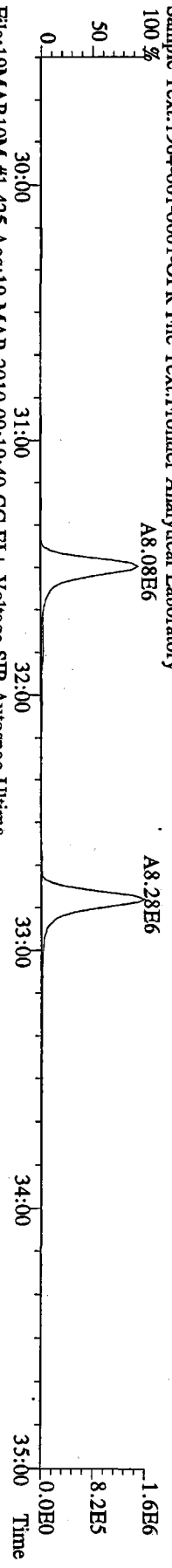
File:19MARI0M #1-390 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



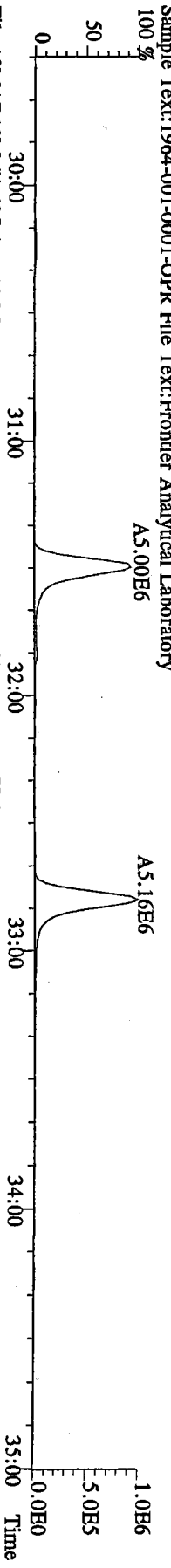
File:19MARI0M #1-390 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



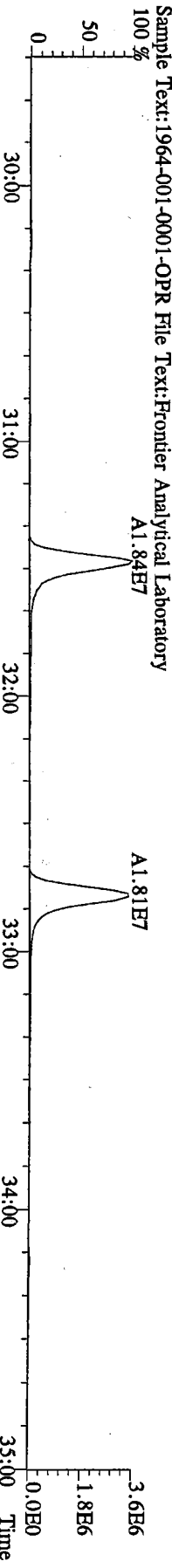
File:19MARI0M #1-425 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



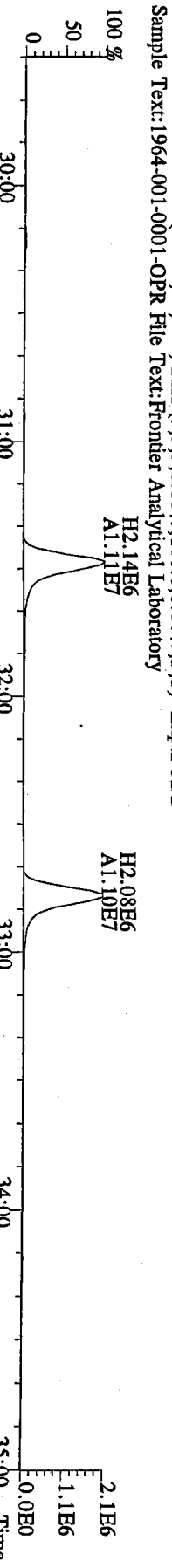
File:19MARI0M #1-425 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



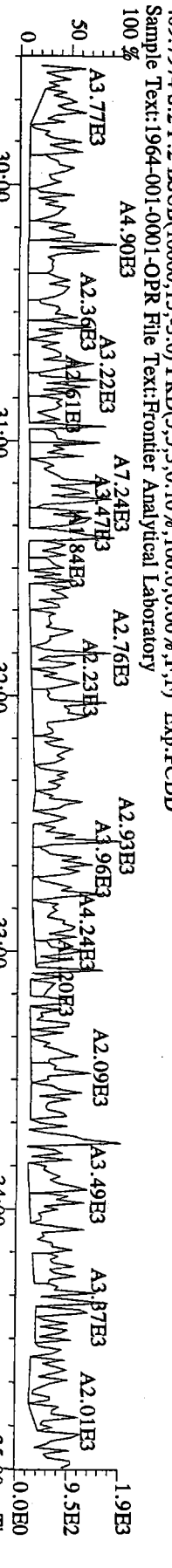
File:19MARI0M #1-425 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



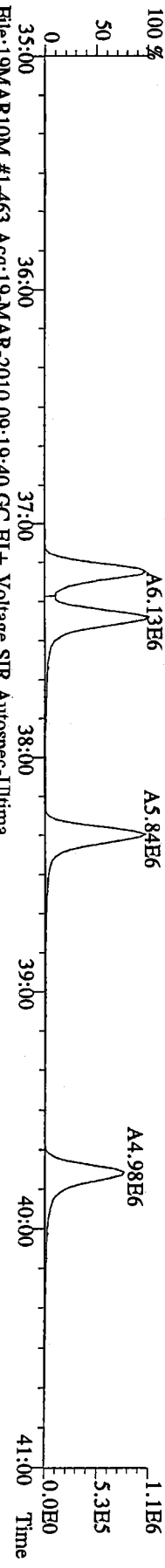
File:19MARI0M #1-425 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



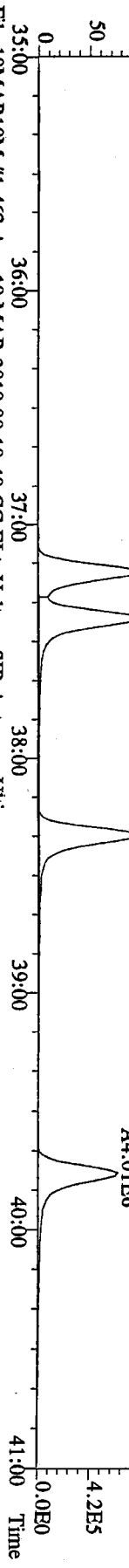
File:19MARI0M #1-425 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



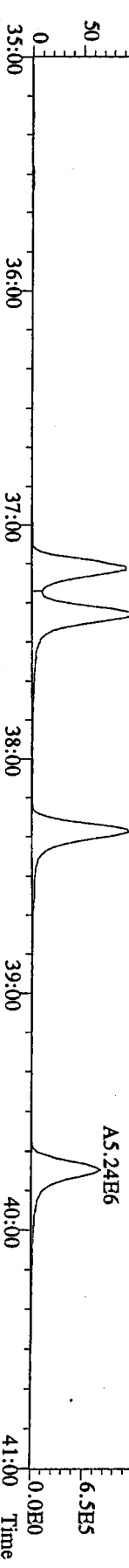
File:19MARIOM #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



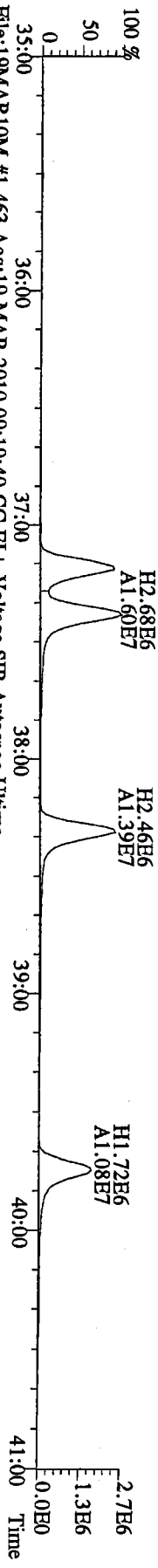
File:19MARIOM #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



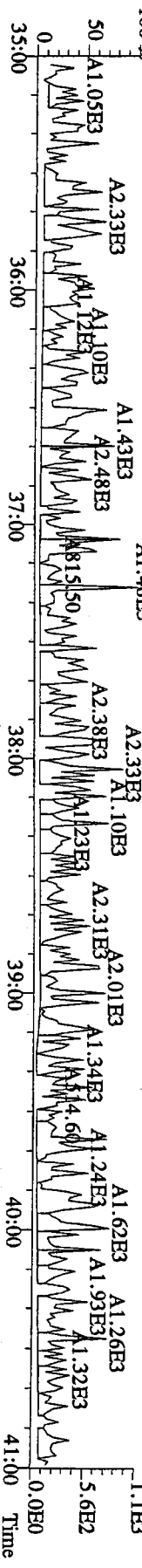
File:19MARIOM #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



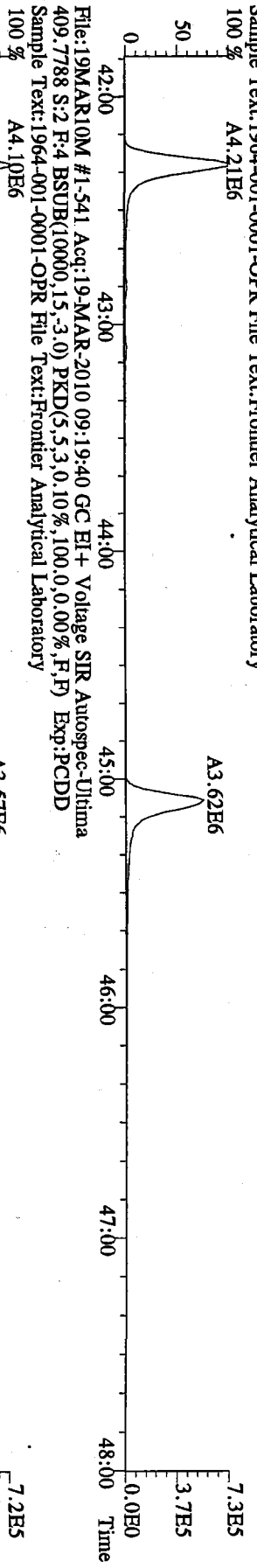
File:19MARIOM #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



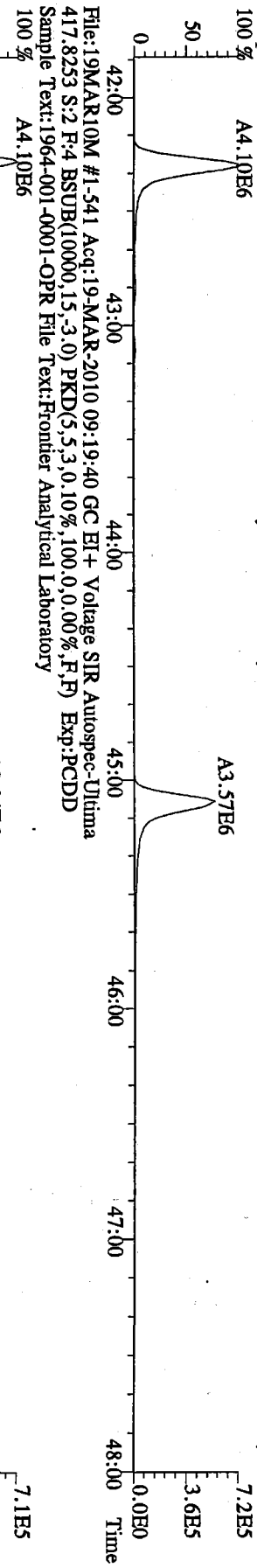
File:19MARIOM #1-463 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



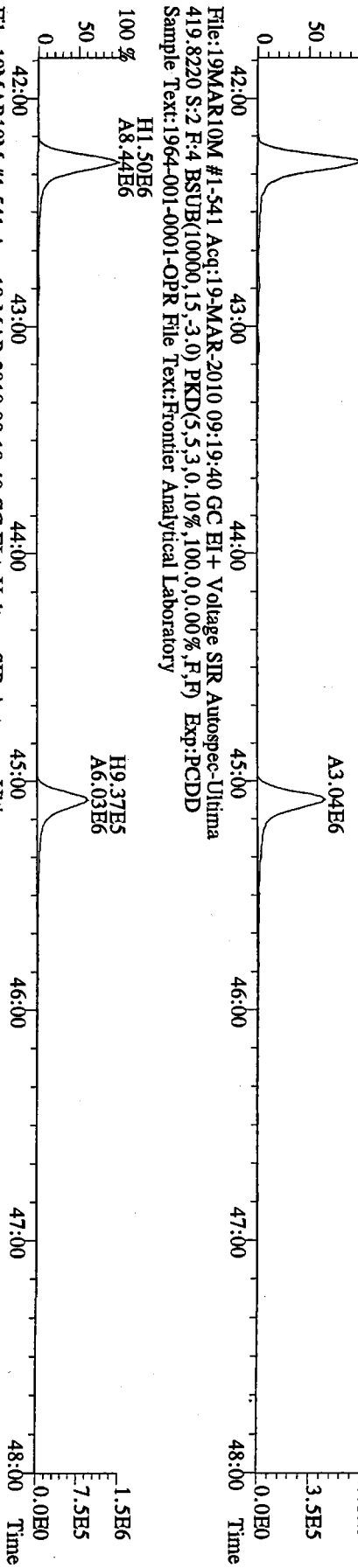
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



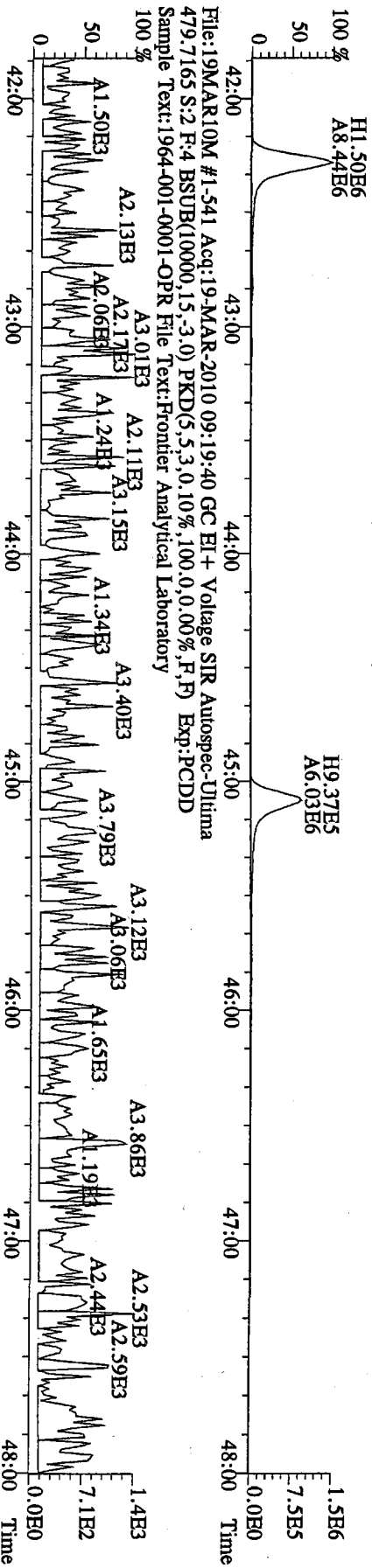
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



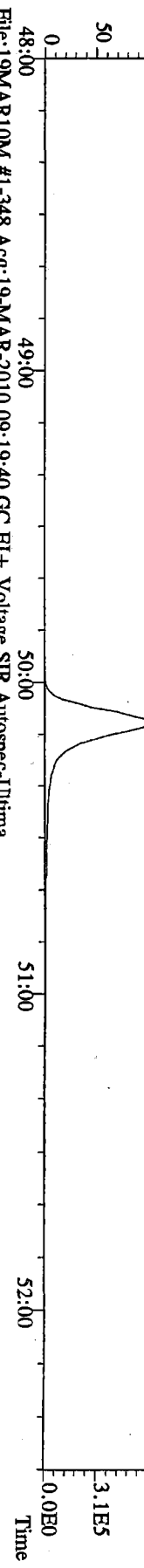
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



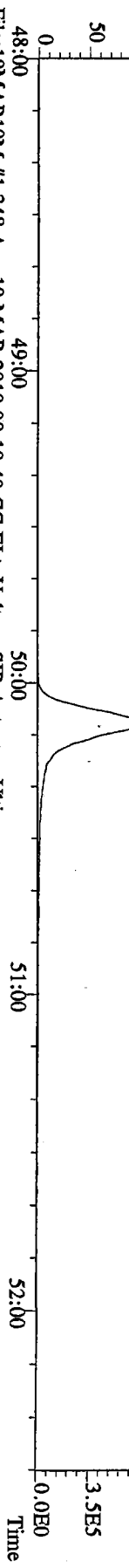
File:19MARI0M #1-541 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Frontier Analytical Laboratory



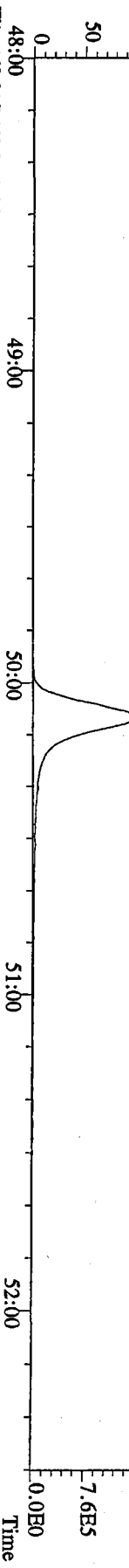
File:19MARIOM #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



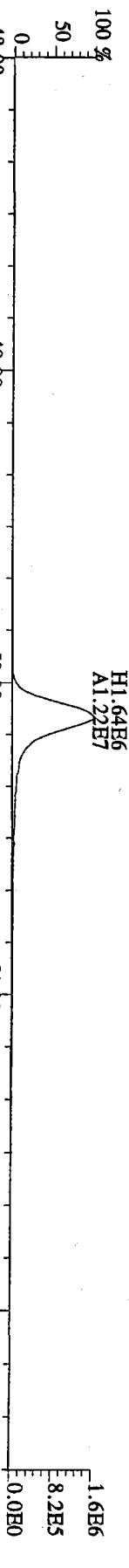
File:19MARIOM #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



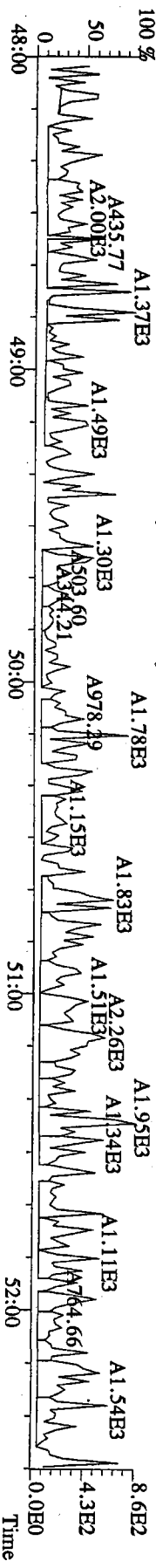
File:19MARIOM #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



File:19MARIOM #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



File:19MARIOM #1-348 Acq:19-MAR-2010 09:19:40 GC EI+ Voltage SIR Autospec-Utima
 513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1964-001-0001-OPR File Text:Fronter Analytical Laboratory



FAL ID: 6030-001-0001-SA Filename: 19MAR10M Sam:7 Acquired: 19-MAR-10 13:57:11 ICal: PCDDFAL3-11-18-09
 Client ID: CB31A031010COMP ConCal: ST031910M1 EndCal: ST031910M2
 Results: 6016 GC Column: DB5 Amount: 1.040 ✓ NATO 1989 Tox: 6.39 WHO 1998 Tox: 5.07 WHO 2005 Tox: 5.37 *DN* 3/23/10
~~5.36~~

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | Rec | #Hom |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|------|-------|------------------------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.02 | * | | 2.50 | 953 | 1280 | 1.65 | |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 0.96 | * | | 2.50 | 1210 | 985 | 1.91 | |
| 1,2,3,4,7,8-HxCDD | 5.36e+04 | 1.30 y | 38:34 | 1.37 | 3.43 | J | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDD | 9.47e+04 | 1.24 y | 38:46 | 1.34 | 6.62 | J | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDD | 8.76e+04 | 1.25 y | 39:11 | 1.37 | 5.82 | J | 2.50 | - | - | * | |
| 1,2,3,4,6,7,8-HpCDD | 2.23e+06 | 0.89 y | 44:12 | 1.17 | 167 | | 2.50 | - | - | * | |
| OCDD | 1.40e+07 | 0.94 y | 49:46 | 1.21 | 1390 | | 2.50 | - | - | * | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.29 | * | | 2.50 | 809 | 1030 | 0.613 | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.89 | * | | 2.50 | 1050 | 997 | 1.16 | |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.91 | * | | 2.50 | 1050 | 912 | 1.19 | |
| 1,2,3,4,7,8-HxCDF | 1.26e+05 | 1.27 y | 37:11 | 1.00 | 6.61 | J | 2.50 | - | - | * | |
| 1,2,3,6,7,8-HxCDF | 5.93e+04 | 1.20 y | 37:23 | 0.92 | 3.07 | J | 2.50 | - | - | * | |
| 2,3,4,6,7,8-HxCDF | 5.70e+04 | 1.37 y | 38:20 | 0.99 | 3.07 | J | 2.50 | - | - | * | |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.09 | * | | 2.50 | 1130 | 472 | 1.14 | |
| 1,2,3,4,6,7,8-HpCDF | 5.86e+05 | 1.06 y | 42:17 | 1.36 | 34.6 | | 2.50 | - | - | * | |
| 1,2,3,4,7,8,9-HpCDF | 7.57e+04 | 1.06 y | 45:05 | 1.61 | 4.58 | J | 2.50 | - | - | * | |
| OCDF | 9.48e+05 | 0.87 y | 50:07 | 0.84 | 85.2 | | 2.50 | - | - | * | |
| 13C-2,3,7,8-TCDD | 2.67e+07 | 0.74 y | 27:21 | 0.94 | 1760 | | | | | 91.4 | |
| 13C-1,2,3,7,8-PeCDD | 2.74e+07 | 1.54 y | 33:11 | 1.02 | 1670 | | | | | 87.0 | |
| 13C-1,2,3,4,7,8-HxCDD | 2.19e+07 | 1.33 y | 38:34 | 0.98 | 1680 | | | | | 87.2 | |
| 13C-1,2,3,6,7,8-HxCDD | 2.05e+07 | 1.33 y | 38:43 | 0.94 | 1650 | | | | | 85.8 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 2.21e+07 | 1.05 y | 44:10 | 0.90 | 1850 | | | | | 96.2 | |
| 13C-OCDD | 3.19e+07 | 0.96 y | 49:44 | 0.67 | 3610 | | | | | 93.9 | |
| 13C-2,3,7,8-TCDF | 4.64e+07 | 0.81 y | 26:35 | 0.88 | 1780 | | | | | 92.4 | |
| 13C-1,2,3,7,8-PeCDF | 4.31e+07 | 1.68 y | 31:27 | 0.88 | 1650 | | | | | 86.0 | |
| 13C-2,3,4,7,8-PeCDF | 4.08e+07 | 1.65 y | 32:45 | 0.85 | 1620 | | | | | 84.2 | |
| 13C-1,2,3,4,7,8-HxCDF | 3.69e+07 | 0.47 y | 37:10 | 1.72 | 1620 | | | | | 84.2 | |
| 13C-1,2,3,6,7,8-HxCDF | 4.06e+07 | 0.48 y | 37:22 | 2.00 | 1530 | | | | | 79.5 | |
| 13C-2,3,4,6,7,8-HxCDF | 3.63e+07 | 0.48 y | 38:18 | 1.74 | 1580 | | | | | 82.0 | |
| 13C-1,2,3,7,8,9-HxCDF | 3.25e+07 | 0.48 y | 39:44 | 1.51 | 1630 | | | | | 84.7 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 2.40e+07 | 0.49 y | 42:16 | 1.10 | 1650 | | | | | 85.6 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.98e+07 | 0.49 y | 45:04 | 0.85 | 1760 | | | | | 91.7 | |
| 13C-OCDF | 5.08e+07 | 0.90 y | 50:07 | 1.17 | 3270 | | | | | 84.9 | |
| 37Cl-2,3,7,8-TCDD | 1.30e+07 | | 27:23 | 0.97 | 827 | | | | | 108 | |
| 13C-1,2,3,4-TCDD | 3.09e+07 | 0.74 y | 26:47 | - | 114 | | | | | | |
| 13C-1,2,3,4-TCDF | 5.71e+07 | 0.82 y | 25:32 | - | 119 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 2.55e+07 | 1.32 y | 39:10 | - | 119 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.02 | * | | 2.50 | 953 | 1280 | 1.65 | 0 |
| Total Penta-Dioxins | * | | NotFnd | 0.96 | * | | 2.50 | 1210 | 985 | 1.91 | 0 |
| Total Hexa-Dioxins | 6.96e+05 | | 36:08 | 1.36 | 46.6 | | 2.50 | - | - | * | 6 |
| Total Hepta-Dioxins | 3.91e+06 | | 42:49 | 1.17 | 293 | | 2.50 | - | - | * | 2 |
| Total Tetra-Furans | 1.52e+05 | | 27:52 | 1.29 | 4.89 | D,M | 2.50 | - | - | * | 2 |
| 1st Fn. Tot Penta-Furans | 9.52e+04 | | 28:26 | 0.90 | 4.86 | J | 2.50 | - | - | * | PeCDF 1 |
| Total Penta-Furans | 2.70e+05 | | 30:13 | 0.90 | 13.8 | J | 2.50 | - | - | * | 18.6 <i>DN</i> 3/23/10 |
| Total Hexa-Furans | 1.31e+06 | | 35:15 | 0.99 | 69.2 | D,M | 2.50 | - | - | * | 18.7 |
| Total Hepta-Furans | 1.72e+06 | | 42:17 | 1.47 | 103 | | 2.50 | - | - | * | 3 |

Analyst: AC Date: 3/23/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 3

Acquired: 19-MAR-10 13:57:11

Total Concentration: 46.6

Unnamed Concentration: 30.716

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 36:08 | 7.11e+04 | 5.61e+04 | 1.27 y | 1.27e+05 | 8.49 | |
| 37:03 | 2.70e+04 | 2.54e+04 | 1.06 y | 5.24e+04 | 3.50 | |
| 37:29 | 1.62e+05 | 1.19e+05 | 1.36 y | 2.81e+05 | 18.7 | |
| 38:34 | 3.03e+04 | 2.33e+04 | 1.30 y | 5.36e+04 | 3.43 | 1,2,3,4,7,8-HxCDD |
| 38:46 | 5.24e+04 | 4.23e+04 | 1.24 y | 9.47e+04 | 6.62 | 1,2,3,6,7,8-HxCDD |
| 39:11 | 4.87e+04 | 3.89e+04 | 1.25 y | 8.76e+04 | 5.82 | 1,2,3,7,8,9-HxCDD |

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 4

Acquired: 19-MAR-10 13:57:11

Total Concentration: 293

Unnamed Concentration: 125.992

| RT | mL Resp | m2 Resp RA | Resp | Concentration | Name |
|-------|----------|-----------------|----------|---------------|---------------------|
| 42:49 | 7.93e+05 | 8.93e+05 0.89 y | 1.69e+06 | 126 | |
| 44:12 | 1.05e+06 | 1.18e+06 0.89 y | 2.23e+06 | 167 | 1,2,3,4,6,7,8-HpCDD |

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 1

Acquired: 19-MAR-10 13:57:11

Total Concentration: 4.89

Unnamed Concentration: 4.892

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 27:52 | 4.00e+04 | 5.78e+04 | 0.69 y | 9.78e+04 | 3.16 | |
| 28:05 | 2.21e+04 | 3.17e+04 | 0.70 y | 5.38e+04 | 1.74 | |

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

Run: 15 File: 19MAR10M S: 7 I: 1 F: 1
Acquired: 19-MAR-10 13:57:11

Total Concentration: 4.86 Unnamed Concentration: 4.862

| RT | ml Resp | m2 Resp RA | Resp | Concentration | Name |
|-------|----------|-----------------|----------|---------------|------|
| 28:26 | 5.76e+04 | 3.76e+04 1.53 y | 9.52e+04 | 4.86 | |

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 2

Acquired: 19-MAR-10 13:57:11

Total Concentration: 13.8

Unnamed Concentration: 13.766

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|------|
| 30:13 | 5.44e+04 | 4.00e+04 | 1.36 y | 9.43e+04 | 4.82 | |
| 31:45 | 5.79e+04 | 3.99e+04 | 1.45 y | 9.78e+04 | 4.99 | |
| 32:06 | 1.88e+04 | 1.31e+04 | 1.44 y | 3.19e+04 | 1.63 | |
| 34:06 | 2.69e+04 | 1.87e+04 | 1.44 y | 4.56e+04 | 2.33 | |

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 3

Acquired: 19-MAR-10 13:57:11

Total Concentration: 69.2

Unnamed Concentration: 56.503

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|-------------------|
| 35:15 | 4.69e+04 | 3.92e+04 | 1.20 y | 8.61e+04 | 4.57 | |
| 35:31 | 1.81e+05 | 1.47e+05 | 1.23 y | 3.27e+05 | 17.4 | |
| 36:25 | 1.86e+05 | 1.51e+05 | 1.24 y | 3.37e+05 | 17.9 | |
| 37:11 | 7.08e+04 | 5.57e+04 | 1.27 y | 1.26e+05 | 6.61 | 1,2,3,4,7,8-HxCDF |
| 37:23 | 3.24e+04 | 2.69e+04 | 1.20 y | 5.93e+04 | 3.07 | 1,2,3,6,7,8-HxCDF |
| 38:06 | 1.72e+05 | 1.42e+05 | 1.21 y | 3.14e+05 | 16.7 | |
| 38:20 | 3.30e+04 | 2.41e+04 | 1.37 y | 5.70e+04 | 3.07 | 2,3,4,6,7,8-HxCDF |

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 19MAR10M

S: 7 I: 1 F: 4

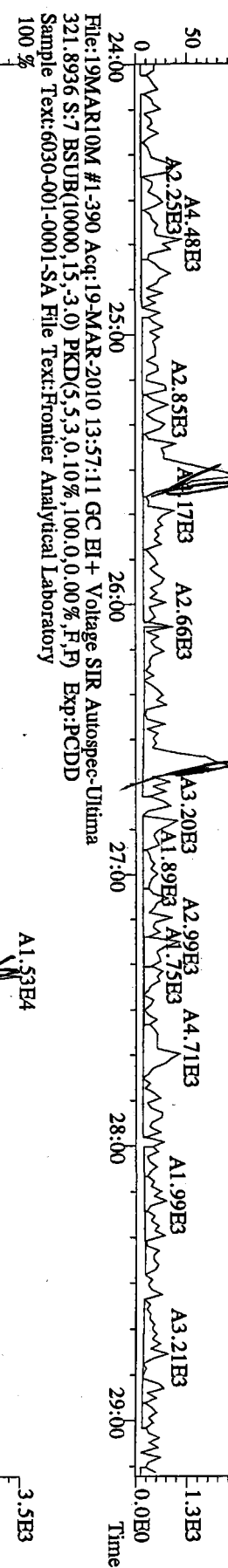
Acquired: 19-MAR-10 13:57:11

Total Concentration: 103

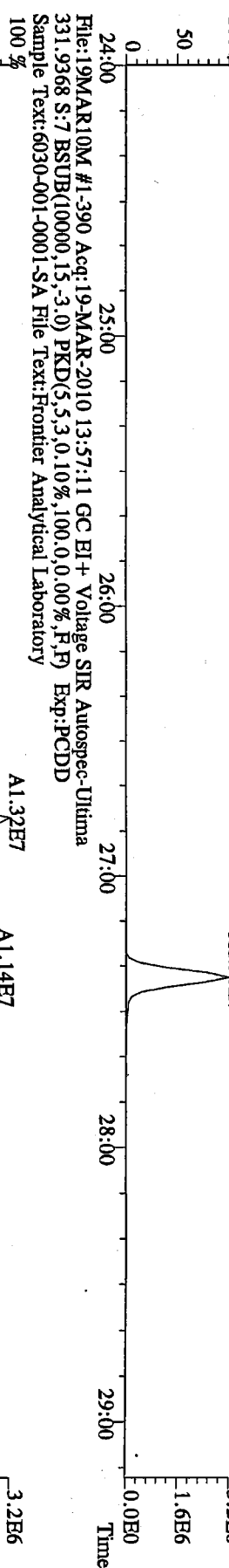
Unnamed Concentration: 63.667

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:17 | 3.01e+05 | 2.85e+05 | 1.06 y | 5.86e+05 | 34.6 | 1,2,3,4,6,7,8-HpCDF |
| 43:06 | 5.52e+05 | 5.11e+05 | 1.08 y | 1.06e+06 | 63.7 | |
| 45:05 | 3.90e+04 | 3.67e+04 | 1.06 y | 7.57e+04 | 4.58 | 1,2,3,4,7,8,9-HpCDF |

File:19MARI0M #1-390 Acq:19-MAR-2010 13:57:11 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6030-001-0001-SA File Text:Frontier Analytical Laboratory



File:19MARI0M #1-390 Acq:19-MAR-2010 13:57:11 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:7 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6030-001-0001-SA File Text:Frontier Analytical Laboratory



File:19MARI0M #1-390 Acq:19-MAR-2010 13:57:11 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:7 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6030-001-0001-SA File Text:Frontier Analytical Laboratory

